### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

### **FORM 10-K**

☑ ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2023

OR

□ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 FOR THE TRANSITION PERIOD FROM TO

Commission File No. 1-15579



#### **MSA SAFETY INCORPORATED**

(Exact name of registrant as specified in its charter)

Pennsylvania (State or other jurisdiction of incorporation or organization) 1000 Cranberry Woods Drive Cranberry Township, Pennsylvania (Address of principal executive offices) 46-4914539 (IRS Employer Identification No.)

> 16066-5207 (Zip Code)

Zip Code)

Registrant's telephone number, including area code: (724) 776-8600

Securities registered pursuant to Section 12(b) of the Act:

Common Stock, no par valueMSA(Title of each class)(Trading symbol(s))

New York Stock Exchange (Name of each exchange on which registered)

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark whether the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes 🗵 No 🗆

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes 🗆 No 🗵

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months and (2) has been subject to such filing requirements for the past 90 days. Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large Accelerated Filer 🖾 Accelerated filer 🗆 Non-accelerated filer 🗆 Smaller reporting company 🗆 Emerging growth company 🗆

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. Yes  $\boxtimes$  If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to 240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes 🗌 No 🗵

The aggregate market value of voting stock held by non-affiliates as of June 30, 2023 was approximately \$6.4 billion. As of February 9, 2024, there were outstanding 39,318,501 shares of common stock, no par value.

#### DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Proxy Statement for the May 12, 2024 Annual Meeting of Shareholders are incorporated by reference into Part III.

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#### **Cautionary Statement Regarding Forward-Looking Statements**

This report may contain (and verbal statements made by MSA<sup>®</sup> Safety Incorporated (MSA) may contain) "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. These statements relate to future events or future financial performance and involve various assumptions, known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements. These risks and other factors include, but are not limited to, those listed in this report under "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations," and elsewhere in this report. In some cases, you can identify forward-looking statements by words such as "may," "will," "should," "expects," "intends," "plans," "objectives," "anticipates," "believes," "estimates," "predicts," "potential" or other comparable words. Actual results, performance or outcomes may differ materially from those expressed or implied by these forward-looking statements and may not align with historical performance and events due to a number of factors, including those discussed in the sections of this report described above. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements, and caution should be exercised against placing undue reliance upon such statements, which are based only on information currently available to us and speak only as of the date hereof. We are under no duty to update publicly any of the forward-looking statements after the date of this report, whether as a result of new information, future events or otherwise, except as required by law.

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#### PART I

#### Item 1. Business

*Overview*—MSA Safety Incorporated is the global leader in advanced safety products, technology and solutions. Driven by its singular mission of safety, the Company has been at the forefront of safety innovation since 1914, protecting workers and facility infrastructure around the world across a broad range of diverse end markets while creating sustainable value for shareholders. The Company's comprehensive product line, which is governed by rigorous safety standards across highly regulated industries, is used to protect workers and facility infrastructures around the world in a broad range of markets, including fire service, energy, utility, construction and industrial manufacturing applications as well as heating, ventilation, air conditioning and refrigeration ("HVAC-R"). The Company's product portfolio includes firefighter safety gear where core products include self-contained breathing apparatus ("SCBA"), protective apparel and helmets; detection where core products include fixed gas and flame detection ("FGFD") systems and portable gas detection instruments; and industrial personal protective equipment ("PPE") where core products include industrial head protection and fall protection devices.

The Company's leading market positions across various products in our portfolio are supported and enabled by a strong commitment to investing in new product development that continually raises the bar for safety equipment performance, all while upholding an unwavering commitment to integrity. We dedicate significant resources to research and development, which allows us to produce innovative safety products that are often first to market and usually protected by intellectual property. Our global product development teams include cross-functional associates throughout the Company, including research and development, marketing, sales, operations and quality management. Our engineers and technical associates work closely with the safety industry's leading standards-setting groups and trade associations to develop industry specific product standards and to anticipate their impact on our product line.

We leverage the MSA Business System ("MBS") to develop and introduce innovative safety solutions, secure new business opportunities, and operate with greater efficiency and purpose. The MBS is our approach to working at our best - at our most efficient and most empowered. It is a combination of behaviors, processes and tools that provide a framework to drive continuous improvement and create intentional problem-solving practices that are consistent across the organization. We strive to serve our customers and help them solve their safety and compliance challenges while creating value for our shareholders. As part of our differentiated development process, we embed ourselves with our customers to deeply understand their processes, pain points and desired outcomes. Our commitment to MBS has enabled us to drive customer satisfaction and profitable growth while generating significant improvements in operating results.

*Segments*—We tailor our product offerings and distribution strategy to satisfy distinct customer preferences that vary across geographic regions. To best serve these customer preferences, we have organized our business into four geographic operating segments that are aggregated into three reportable segments: Americas, International and Corporate. Segment information is presented in Note 8—Segment Information of the consolidated financial statements in Part II Item 8 of this Form 10-K.

Because our consolidated financial statements are stated in U.S. dollars and much of our business is conducted outside the U.S., currency fluctuations may affect our results of operations and financial position and may affect the comparability of our results between financial periods.

*Products*—We design, manufacture, and sell a comprehensive line of safety products and solutions to protect workers and facility infrastructures around the world. Our products protect people and critical infrastructure against a wide variety of hazardous or life-threatening situations.

The following is a brief description of each of our product categories:

**Core products.** MSA's corporate strategy includes a focus on providing customers a number of core products, where we have leading market positions and a distinct competitive advantage. Core products, as mentioned above, include breathing apparatus where SCBA is the principal product, firefighter helmets and protective apparel, FGFD, portable gas detection instruments, industrial head protection products and fall protection devices. Core products comprised approximately 91% and 90% of sales in 2023 and 2022, respectively.

The following is a brief description of our core product offerings within each of our Firefighter Safety, Detection and Industrial PPE portfolios:

#### Firefighter Safety

Breathing apparatus products. The Company's primary breathing apparatus product is the SCBA. SCBA are used by first responders, manufacturing and process industry plant workers and others entering an environment deemed immediately dangerous to life and health. The SCBA functions together with various MSA cloud-based software modules and proprietary accessories to create a complete and customizable solution for our customers. Our primary breathing apparatus product in the Americas segment, the MSA G1 SCBA, is a platform that offers many differentiated features. With new hardware and software upgrades always under development, this platform continues to evolve to meet our customers' needs. The MSA M1 SCBA, which is our primary breathing apparatus product in the International segment, represents the most advanced and ergonomic SCBA we have launched in the International markets. The "M" stands for modular, which is a critical design element that allows this platform to meet the many varied needs of customers around the world. We sell breathing apparatus across both the Americas and International segments.

*Firefighter helmets and protective apparel.* We offer a complete line of fire helmets that includes our Cairns<sup>®</sup> and Gallet<sup>®</sup> helmet brands. Our Cairns helmets are primarily used by firefighters in North America while the Gallet helmets are primarily used by firefighters across our International segment. Globe Holding Company, LLC ("Globe") and B T Q Limited ("Bristol Uniforms"), two of our subsidiaries, are both leading innovators and providers of firefighter turnout gear and boots.

#### Detection

*FGFD systems.* Our permanently installed FGFD systems are used in energy and utility applications, HVAC-R and general industrial production facilities to detect the presence or absence of various gases in the air. Typical applications of these systems include the detection of an oxygen deficiency in confined spaces or the presence of combustible or toxic gases. The FGFD product line generates a meaningful portion of overall revenue from recurring business including replacement components and related service. We sell these products in both our Americas and International segments. Key products include:

- Fixed gas detection monitoring systems. This product line is used to monitor for combustible and toxic gases and oxygen deficiency in virtually
  any application where continuous monitoring is required. Our systems are used for gas detection in energy, pulp and paper, wastewater, refrigerant
  monitoring, pharmaceutical production and general industrial applications. One of our flagship products is the Ultima<sup>®</sup>X5000 and S5000 gas
  monitors which enhances facility and worker safety while lowering overall cost of ownership for our customers through differentiated sensor
  technology. These systems utilize a wide array of sensor technologies including electrochemical, catalytic, infrared and ultrasonic.
- Flame detectors and open-path infrared gas detectors. These instruments are used for plant-wide monitoring of toxic gases and for detecting the presence of flames. These systems use infrared optics to detect potentially hazardous conditions across long distances, making them suitable for use in applications such as processing industries, storage vessels and HVAC ducts.

In 2021 MSA acquired Bacharach, Inc. and its affiliated companies ("Bacharach"), a leader in gas detection technologies used in the HVAC-R markets. Bacharach's advanced instrumentation technologies help protect lives and the environment, while also increasing operational efficiency for its diversified customer base. Bacharach's portfolio of gas detection and analysis products are used to detect, measure and analyze leaks of various gases that are commonly found in both commercial and industrial settings. Bacharach has strong expertise in the refrigerant leak detection market with customers in the HVAC-R, food retail, automotive, commercial and industrial refrigeration, and military markets.

Portable gas detection instruments. Our hand-held portable gas detection instruments are used to detect the presence or absence of various gases in the air. The product line is used by energy, utility, general industrial workers as well as first responders or anyone working in a confined space environment. Typical applications of these instruments include the detection of an oxygen deficiency in confined spaces or the presence of combustible or toxic gases. Our single- and multi-gas detectors provide portable solutions for detecting the presence of oxygen, combustible gases and various toxic gases, including hydrogen sulfide, carbon monoxide, ammonia and chlorine, either singularly or up to six gases at once. Our ALTAIR<sup>®</sup> 2X, ALTAIR 4XR and ALTAIR 5X Multigas Detectors, with our internally developed XCell<sup>®</sup> sensor technology, provide faster response times and unsurpassed durability. Our newest multigas detector, the ALTAIR<sup>®</sup> io<sup>TM</sup> 4, is a portable gas detection wearable designed with fully integrated connectivity for real-time visibility across worksites. We sell portable gas detection instruments in both our Americas and International segments.



MSA also leverages proprietary Internet of Things solutions and wireless solutions to connect certain MSA hardware products directly to our cloud offering ("MSA Grid"). MSA Grid offers solutions for both fleet management and live monitoring while interfacing directly with the breadth of available MSA hardware products. Through this cloud technology, MSA provides services that enhance worker safety and accountability through additional transparency that does not normally exist in industrial settings.

#### Industrial PPE

*Industrial head protection.* We offer a complete line of industrial head protection and accessories that includes the iconic V-Gard<sup>®</sup> helmet brand, a bellwether product in MSA's portfolio for over 50 years. We offer customers a wide range of color choices and we are a leader in the application of customized logos. We recently introduced the V-Gard C1<sup>TM</sup> hard hat with patent-pending ReflectIR<sup>TM</sup> thermal barrier technology which helps to reduce temperatures inside the hard hat for a cooling effect to the wearer. Our industrial head protection products have a wide user base, including energy, utility, non-residential construction and industrial workers.

*Fall protection.* Our broad line of fall protection equipment includes harnesses, lanyards, self-retracting lifelines, engineered systems and confined space equipment. Fall protection equipment is used by workers in the construction, energy, utilities and aerospace industries as well as general industrial applications and anyone working from height in both our Americas and International segments. MSA's V-Series<sup>®</sup> fall protection equipment has transformed the Company's harness and self-retracting lanyard portfolio, with over 50 fall protection products launched over the past several years. Additionally, we recently launched a patent-pending Personal Fall Limiter with a smart hook connector that uses radio-frequency identification ("RFID") technology to alert wearers when they are not secured to an anchorage point.

MSA+T<sup>M</sup>. Our safety solutions platform that integrates safety hardware technology, cloud software solutions and safety services was launched in 2022. MSA+ offerings span across our portfolio to include certain products across Firefighter Safety, Detection and Industrial PPE offerings. By integrating these products with our cloud services and coupling them with subscription pricing, MSA improves access to our solutions and facilitates the digital transformation of safety programs while further accelerating our recurring revenue business.

**Non-core products.** MSA maintains a portfolio of non-core products. Non-core products reinforce and extend the core offerings, drawing upon our customer relationships, distribution channels, geographical presence and technical experience. These products are complementary to the core offerings and sometimes reflect more episodic or contract-driven growth patterns. Key non-core products include air-purifying respirators, eye and face protection, ballistic helmets and gas masks.

*Customers*—Our customers generally fall into two categories: distributors and end-users. In our Americas segment, the majority of our sales are made through distribution. In our International segment, sales are made through both indirect and direct sales channels. For the year ended December 31, 2023, no individual customer represented more than 10% of our sales.

*Sales and Distribution*—Our sales and distribution team consists of marketing, field sales and customer service organizations. In most geographic areas, our field sales organizations work jointly with select distributors to call on end-users and educate them about hazards, exposure limits, safety requirements and product applications, as well as the specific performance attributes of our products. We believe that understanding end-user requirements is critical to increasing MSA's market share.

The in-depth customer training and education provided by our sales associates to our customers is critical to ensuring proper use of many of our products, such as SCBA and detection instruments. As a result of our sales and marketing associates working closely with end-users, they gain valuable insight into customer preferences and needs. To better serve our customers and to ensure that our sales and marketing associates are among the most knowledgeable and professional in the industry, we place significant emphasis on training our sales associates in product application, industry standards and regulations.

We believe our sales and distribution strategy allows us to deliver a customer value proposition that differentiates our products and services from those of our competitors, resulting in increased customer loyalty and demand.

In areas where we use indirect selling, we promote, distribute and service our products to general industry through authorized national, regional and local distributors. We distribute fire service products primarily through specially trained local and regional distributors who provide advanced training and service capabilities to volunteer and paid municipal fire departments. Because of our broad and diverse product line and our desire to reach as many markets and market segments as possible, we have over 2,100 authorized distributor locations worldwide.

*Competition*—The global safety products market is broad and highly fragmented with few participants offering a comprehensive line of safety products. The sophisticated safety products market in which we compete is comprised of both core and non-core offerings and is a subset of the larger safety market. We maintain leading positions across various products in our portfolio. Over the long-term, we believe global demand for safety products will continue to grow. Purchases of these products are non-discretionary, protecting workers' health and critical infrastructure in hazardous and life-threatening work environments. Their use is often mandated by government and industry regulations, which are increasingly enforced on a global basis.

The safety products market is highly competitive, with participants ranging in size from small companies focusing on a single type of PPE to several large multinational corporations that manufacture and supply many types of sophisticated safety products. Our main competitors vary by region and product. We believe that participants in this industry compete primarily on the basis of product characteristics (such as functional performance, technology, cost of ownership, comfort, design and style), brand name recognition and after-market service support.

We believe we compete favorably within each of our operating segments as a result of our high quality, innovative offerings and strong brand trust and recognition.

**Research and Development**—To achieve and maintain our market leading positions, we operate several sophisticated research and development facilities. We believe our dedication and commitment to innovation and research and development allows us to produce state-of-the-art safety products that are often first to market and exceed industry standards. Our primary engineering groups are located in the United States, Germany, France, China and South Africa. Our global product development teams include cross-geographic and cross-functional members from various areas throughout the Company, including research and development, marketing, sales, operations and quality management. These teams are responsible for setting product line strategies based on their understanding of customers' needs and available technology, as well as the opportunities and challenges they foresee in each product area. We believe our team-based, cross-geographical and cross-functional approach to new product development is a source of competitive advantage. Our approach to the new product development process allows us to tailor our product offerings and product line strategies to satisfy distinct customer preferences and industry regulations that vary across our operating segments.

We believe another important aspect of our approach to new product development is that our engineers and technical associates work closely with the safety industry's leading standards-setting groups and trade associations. These organizations include the National Institute for Occupational Safety and Health ("NIOSH"), the National Fire Protection Association ("NFPA"), American National Standards Institute ("ANSI"), International Safety Equipment Association ("ISEA") and their overseas counterparts. Key members of our management team understand the impact that these standard-setting organizations have on our new product development pipeline. As such, management devotes significant time and attention to anticipating a new standard's impact on our sales and operating results. Because of our understanding of customer needs, membership on global standards-setting bodies, investment in research and development and our unique new product development process, we believe we are well positioned to anticipate and adapt to changing product standards. While the length of the approval process can be unpredictable, we believe that we are well positioned to gain the approvals and certifications necessary to meet new government and multinational product regulations.

*Patents and Intellectual Property*—We own significant intellectual property, including a number of domestic and foreign patents, patent applications and trademarks related to our products, processes and business. Although our intellectual property plays an important role in maintaining our competitive position in a number of markets that we serve, no single patent, or patent application, trademark or license is, in our opinion, of such value to us that our business would be materially affected by the expiration or termination thereof, other than the "MSA" trademark. Our patents expire at various times in the future not exceeding 20 years. Our general policy is to apply for patents on an ongoing basis in the United States and other countries, as appropriate, to perfect our patent development. In addition to our patents, we have also developed or acquired a substantial body of manufacturing know-how that we believe provides a significant competitive advantage over our competitors.

*Raw Materials and Suppliers*—Many of the components of our products are formulated, machined, tooled or molded in-house and by select tier one supplier partners, which comprise approximately two-thirds of our cost of sales. For example, we rely on integrated manufacturing capabilities for breathing apparatus, gas masks, ballistic helmets, hard hats and circuit boards. The primary materials that we source from third parties include electronic components, high density polyethylene, chemical filter media, rubber and plastic components, eye and face protective lenses, air cylinders, certain metals and ballistic resistant, flame resistant and non-ballistic fabrics. We purchase these materials both domestically and internationally, and we work to ensure our supply sources are both well established and reliable. In spite of some market-softening, especially in the consumer space, the demand for certain industrial-based electronic components continues to outpace supply. For these key electronic components (specifically, components manufactured in larger process nodes), lead times remain extended and the overall market constrained, which is not unique to MSA. We continue to effectively navigate these supply chain issues, as we have close supplier relationship programs with our key raw material distributors and strategic supplier partners. Although we do not have long-term supply contracts with all suppliers, we have engaged in formal supply agreements with select strategic supplier partners. We work to establish long term agreements with all key partners to ensure a robust supply pipeline and have not experienced any significant problems in obtaining adequate raw materials.

Please refer to MSA's Form SD filed on May 25, 2023 for further information on our conflict minerals analysis. Form SD may be obtained free of charge at www.sec.gov.

*Human Capital*—As of December 31, 2023, the Company employed approximately 5,100 people worldwide, of which approximately 2,200 were employed in the United States and 2,900 were employed outside of the United States. Approximately 20% of our global workforce is covered by collective bargaining agreements or works councils. Overall, we consider our employee relations to be good. Our culture is important to our success. To that end, we maintain seven core values that define our culture. They are Integrity, Customer Focus, Diversity and Inclusion, Innovation and Change, Engagement, Teamwork and Speed and Agility. Our core values are encircled by "A Culture of Safety."

*Workplace Health & Safety*—As a company whose mission is dedicated to worker safety, MSA places great emphasis on the health and safety of our own associates. The Company maintains a global Environmental, Health and Safety Management System, deploys a variety of programs to reduce and eliminate injuries and promote safety and regularly measures the progress of those programs. These programs promote personal responsibility for workplace safety and encourage associates to set a meaningful example as safety ambassadors.

*Employee Health and Well-Being*—To support mental health and emotional well-being, all associates and their dependents worldwide have access to an Employee Assistance Program, at no cost to them. This includes access to visits with mental health care providers through the program.

*Diversity and Inclusion*—Diversity and Inclusion is a Core Value at MSA, and the Company seeks a wide variety of people, thoughts, perspectives, and ideas.

MSA strives to provide a diverse and inclusive work environment, paired with a culture of excellence in which associates feel comfortable openly sharing thoughts and ideas. Creating an inclusive environment helps to recruit and retain talent, promoting engagement, fostering innovation, and achieving MSA's business objectives.

The Company maintains several Employee Resource Business Groups designed to foster a culture that is both engaged and inclusive. These groups are voluntary, associate-driven communities that capitalize on the wide variety of people and perspectives at MSA, driving our core value of Diversity and Inclusion. The Company also maintains an Executive Diversity Council and several regional councils focused on increasing organizational awareness, accountability and impact of Diversity and Inclusion initiatives.

MSA also partners with a number of non-profit and community-based organizations to help to build a pipeline of future talent with differing backgrounds, thoughts, experiences, and perspectives.

Approximately 53% of our U.S. workforce self-identifies as diverse. This includes women who comprise approximately 40% of our U.S. workforce. Among associates within executive pay grades, 46% self-identify as diverse. We determine race and gender diversity based on our employees' self-identification or other information compiled to meet the requirements of the U.S. government, compiled as of December 31, 2023. We count a diverse woman as one individual for purposes of the calculating the aforementioned statistics.

Leadership and Development-MSA provides programs to enable continuous learning, growth and development opportunities.



First, our "MOVE" (Meaningful, Ongoing, Vital Exchanges) Performance Management philosophy is a core element of associate engagement. Exchanges between associates and supervisors provide a flexible, ongoing feedback loop to drive and enhance the engagement of associates, while facilitating the achievement of our strategic goals.

Second, the MSA Leader model sets the expectations of MSA people leaders. Grounded in core principles that define MSA's high performance culture of excellence, the MSA Leader model guides the development of current and aspiring leaders. It outlines the traits, knowledge, competencies, and experiences that MSA requires for successful leadership while encouraging leaders to remain true to their personal styles. The model is the foundation of leadership development at MSA. By combining leadership development, culture, and business acumen, leaders are better prepared to drive a high-performance culture while maintaining an engaged workforce with opportunities for development and growth.

Beyond these core programs, MSA designs and delivers a variety of associate leadership and development programs to further enhance the associate experience and opportunities for growth. Associates are empowered to own their career development through business-aligned resources, tools and programs.

*Compensation and Rewards*—MSA's global compensation philosophy strives to provide total compensation for all associates at the market median, utilizing base salary, cash incentives and, in some cases, equity grants to achieve this goal. We further strive to provide above-market compensation opportunities for associates who exceed goals and expectations. This approach to total rewards is designed to help MSA attract, retain and motivate high-performing individuals who foster an innovative culture and drive business results.

*Environmental Matters*—Our facilities and operations are subject to laws and regulations relating to environmental protection and human health and safety. In the opinion of management, compliance with current environmental protection laws will not have a material adverse effect on our financial condition. See Item 1A—Risk Factors, for further information regarding our environmental risks which could impact the Company.

*Seasonality*—Our operating results are not significantly affected by seasonal factors. During periods of economic expansion or contraction and following significant catastrophes, our sales by quarter have varied. Government-related sales tend to increase in the fourth quarter. Americas segment sales tend to be strong during the energy sector's turnaround seasons late in the first quarter, early in the second quarter and then again at the end of the third quarter and beginning of the fourth quarter. International segment sales are typically weaker for the Europe region in the summer holiday months of July and August and seasonality can be affected by the timing of delivery of larger orders. Invoicing and the delivery of larger orders can affect sales patterns variably across all reportable segments.

Available Information—Our Internet address is www.MSAsafety.com. We make the following filings available free of charge on the Investor Relations page on our website as soon as they have been electronically filed with or furnished to the Securities and Exchange Commission ("SEC"): our annual reports on Form 10-K, our quarterly reports on Form 10-Q, our current reports on Form 8-K and any amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as well as our proxy statement. Information contained on our website is not part of this annual report on Form 10-K or our other filings with the SEC. The SEC maintains an Internet site at www.sec.gov that contains reports, proxy and information statements and other information regarding issuers like us who file electronically with the SEC.

#### Item 1A. Risk Factors

#### **RISKS RELATED TO LEGAL AND REGULATORY CHALLENGES**

#### Claims of injuries or potential safety issues or quality concerns could be made against our various subsidiaries.

Our products and solutions are often used in high-risk and unpredictable environments and our mission, reputation and business success rely on our ability to design and provide safe, high quality and reliable products that earn and maintain customer trust. In the event the parties using our products are injured, or if any of our products are alleged to have contributed, we could be subject to claims or suffer reputational harm. In addition, we may be required to or may voluntarily recall or redesign certain products or components due to concern about product safety, quality, ease of use or customer confidence. We continue to review, update, and execute the Company's quality management processes appropriately to meet changing market demands, technology, and product standards. Any significant claims, recalls or field actions that result in significant expense or negative publicity against us could have a material adverse effect on our business, operating results, financial condition and liquidity, including any successful claim brought against us in excess or outside of available insurance coverage.

### Our subsidiaries may experience losses from product liability claims, which could have a material adverse effect on our business, operating results, financial condition and liquidity.

Our subsidiaries face an inherent business risk of exposure to product liability or other legal claims or penalties related to the design, manufacture, marketing, or sale of any of our current or former products and solutions. Our subsidiaries are named periodically in single incident lawsuits, or, at times, in cumulative trauma product liability lawsuits which may be numerous, and the number of claims newly asserted in any given period is difficult to predict and may aggregate or escalate suddenly. Any type of product injury claim may result in losses in excess of limits or beyond the coverage afforded by available insurance and have a material adverse effect on our business, reputation, operating results, financial condition and liquidity.

On January 5, 2023, the Company divested Mine Safety Appliances Company, LLC ("MSA LLC"), a wholly owned subsidiary that holds legacy product liability claims relating to coal dust, asbestos, silica, and other exposures, to a joint venture between R&Q Insurance Holdings Ltd. and Obra Capital, Inc. (the "Purchaser") The transaction is subject to risks related to counterparty commercial risk as well as agreement enforcement and interpretation. Third parties also could seek to assert claims against us for which MSA LLC is the legally responsible party, and we may be required to incur fees and expenses to enforce that wrongly asserted claims are properly redirected to MSA LLC. The divested subsidiary MSA LLC and the Purchaser each have agreed to indemnify us with respect to MSA LLC's cumulative trauma product liability losses and other defined exposures. The ability of MSA LLC and the Purchaser to honor their indemnity obligations is subject to commercial risk and, in addition, in the event of a dispute, the transaction, negotiated indemnities, and the extent of other legally available protections may be subject to future judicial interpretation. MSA and its remaining subsidiaries continue to be responsible for claims relating to any current or former products and solutions that were not transferred as part of the divestiture.

## Our ability to market and sell our products is subject to existing government laws, regulations and standards. Changes in such laws, regulations and standards or our failure to comply with them could materially and adversely affect our results of operations.

Most of our products are required to meet performance and test standards designed to protect the safety of people and infrastructures around the world. Our inability to comply with these standards could result in declines in revenue, profitability and cash flow. Changes in laws, regulations, or the standards themselves, including changes related to federal, national, state or provincial elections, could reduce the demand for our products or require us to reengineer our products, thereby creating opportunities for our competitors. Regulatory approvals for our products may be delayed or denied for a variety of reasons that are outside of our control. Additionally, market anticipation of significant new standards can cause customers to accelerate or delay buying decisions.

## We are subject to various federal, state and local laws and regulations across our global organization and any violation of these laws or regulations could adversely affect our results of operations.

We are subject to numerous, and sometimes conflicting, laws and regulations on matters as diverse as anti-corruption, import/export controls, product content requirements, trade restrictions, tariffs, taxation, sanctions, internal and disclosure control obligations, securities regulation, anti-competition, data privacy and security, and labor relations, among others. This includes laws and regulations in emerging markets where legal systems may be less developed or familiar to us. Compliance with diverse legal requirements is costly, time-consuming and requires significant resources. Violations of one or more of these laws or regulations in the conduct of our business could result in significant fines, criminal prosecution or sanctions and/or civil penalties against us or our officers or other personnel, prohibitions on doing business and damage to our reputation. These actions could result in liability for significant monetary damages, unfavorable publicity and other reputational damage and have a material adverse effect on our business, consolidated results of operations and financial condition.



#### We are subject to various environmental laws and any violation of these laws could adversely affect our results of operations.

Included in the extensive laws, regulations and ordinances to which we are subject, are those relating to the protection of the environment. Examples include those governing discharges to water, discharges to air (including greenhouse gas emissions), handling and disposal practices for solid and hazardous wastes and the maintenance of a safe workplace. These laws impose penalties for noncompliance and liability for response costs and certain damages resulting from past and current spills, disposals, other releases of hazardous materials and other noncompliance with such laws. These environmental laws may continue to change in the future due to a variety of factors, such as government focus on climate change. We could incur substantial costs as a result of noncompliance with or liability for cleanup pursuant to these environmental laws, which could have a material adverse effect on our business, consolidated results of operations and financial condition. Such laws continue to change, and we may be subject to more stringent environmental laws are enacted, these future laws could have a material adverse effect on our business, consolidated results of operations and financial condition.

#### We are subject to risks related to our environmental, social and governance activities and disclosures.

Environmental social and governance, often referred to as ESG, has continued to be an area of focus from investors, customers, employees, and lawmakers, who at times may have competing, inconsistent, or varying interests. ESG-related regulations at both state and national levels are requiring heightened attention, including climate-related disclosures. As reporting and disclosure requirements continue to evolve, the Company anticipates increasing investor expectations and additional regulatory requirements, among other demands related to our ESG activities. Failure to accurately and timely meet these expectations and requirements may result in reputational damage, regulatory penalties and litigation among other consequences.

## We are subject to various U.S. and foreign tax laws and any changes in these laws related to the taxation of businesses and resolutions of tax disputes could adversely affect our results of operations.

The U.S. Congress, the Organization for Economic Co-operation and Development ("OECD") and other government agencies in jurisdictions in which we and our affiliates invest or do business have maintained a focus on issues related to the taxation of multinational companies. The OECD has changed numerous long-standing tax principles through its base erosion and profit shifting project which could adversely impact our effective tax rate.

We are subject to regular review and audit by both foreign and domestic tax authorities. While we believe our tax positions will be sustained, the final outcome of tax audits and related litigation may differ materially from the tax amounts recorded in our consolidated financial statements, which could have a material adverse effect on our consolidated results of operations, financial condition and cash flows.

#### RISKS RELATED TO SUPPLY AND MANUFACTURING

## Our future results are subject to the risk that purchased components and materials are unavailable or available at excessive cost due to material shortages, excessive demand, currency fluctuation, inflationary pressure and other factors.

We depend on various components, materials and services from supply chain partners to manufacture our products. It is possible that any of our supplier relationships could be terminated or otherwise disrupted, or that our suppliers may be unable to timely deliver quality components, materials or services to us. Any sustained interruption in our receipt of adequate supplies or services could have a material adverse effect on our business, results of operations and financial condition. Our inability to successfully manage price fluctuations due to market demand, currency risks or material shortages, or future price fluctuations (whether due to inflationary pressures or otherwise) could have a material adverse effect on our business and our consolidated results of operations and financial condition.



#### Our plans to continue to improve productivity and reduce complexity may not be successful, which could adversely affect our ability to compete.

MSA periodically evaluates the efficiency of our business, which may result in changes to the way that we operate. For example, MSA has integrated parts of its European operating segment that have historically been individually managed entities, into a centrally managed organization model. We plan to continue to leverage the benefits of scale created from this approach and are in the process of implementing a more efficient and cost-effective enterprise resource planning system in additional locations across the International Segment. MSA runs the risk that these and similar initiatives may not be completed substantially as planned, may be more costly to implement than expected, or may not result in the efficiencies or cost savings anticipated. In addition, if not properly managed, these initiatives could cause disruptions in our day-to-day operations and have a negative impact on MSA's financial results. It is also possible that other major productivity and streamlining programs may be required in the future.

## We are subject to risks related to various U.S. and foreign climate regulations and any changes in these regulations related to climate disclosure and penalties for non-compliance could adversely affect our results of operations.

The issue of climate variability is receiving increasing attention nationally and worldwide. Some scientific experts are predicting a worsening of weather volatility in the future associated with climate variability. Climate changes that have significant physical effects, such as increased frequency and severity of storms, floods, wildfires, droughts and other climatic events, could have an adverse effect on our supply chain, our business and our consolidated results of operations and financial condition.

Moreover, our operations (and the operations of many of our key suppliers) emit greenhouse gases directly. Restrictions on emissions of methane or carbon dioxide that may be imposed could adversely impact the demand for, price of and value of our products and reserves. For example, current and future laws or regulations limiting such emissions could increase our own costs. At this time, it is not possible to accurately estimate how potential future laws or regulations addressing greenhouse gas emissions would impact our business.

#### RISKS RELATED TO ECONOMIC, MARKET AND COMPETITIVE CONDITIONS

#### Unfavorable economic and market conditions could materially and adversely affect our business, results of operations and financial condition.

We are subject to risks arising from adverse changes in global economic conditions. We have significant operations in a number of countries outside the U.S., including some in emerging markets. Long-term economic uncertainty in some of the regions of the world in which we operate, such as Asia, Latin America, the Middle East and Europe, could result in declines in revenue, profitability and cash flow due to reduced orders, payment delays, supply chain disruptions or other factors caused by the economic challenges faced by our customers and suppliers.

A portion of MSA's sales are made to customers in the energy market. It is possible that volatility in the energy market, whether related to economic, climate-related energy policy, or other conditions, could negatively impact our business and could result in declines in our consolidated results of operations and cash flow.

# Pandemics or disease outbreaks, such as COVID-19, may cause unfavorable economic or market conditions which could impact demand patterns and/or disrupt global supply chains and manufacturing operations. Collectively, these outcomes could materially and adversely affect our business, results of operations and financial condition.

Pandemics or disease outbreaks such as COVID-19 could result in a widespread health crisis that could adversely affect the economies of developed and emerging markets, potentially resulting in an economic downturn that could affect customers' demand for our products in certain industrial-based end markets. The spread of pandemics or disease outbreaks may also disrupt the Company's manufacturing operations, supply chain, or logistics necessary to import, export and deliver products to our customers. During a pandemic or crisis, applicable laws and response directives such as vaccine mandates or occupational safety and health requirements, could, in some circumstances, result in skilled labor impacts including voluntary attrition or difficulty finding labor, or otherwise adversely affect our ability to operate our plants, obtain inputs from suppliers, or to deliver our products in a timely manner. Some laws and directives may also hinder our ability to move certain products across borders. Economic conditions can also influence order patterns. These factors could negatively impact our consolidated results of operations and cash flow.



# A reduction in the spending patterns of government customers or delays in obtaining government approval for our products could materially and adversely affect our net sales, earnings and cash flow.

The demand for our products sold to the fire service market, the homeland security market and other government customers is, in large part, driven by available government funding. Government budgets are set annually, and we cannot assure that government funding will be sustained at similar levels in the future. A significant reduction in available government funding could result in declines in our consolidated results of operations and cash flow.

## The markets in which we compete are highly competitive, and some of our competitors have greater financial and other resources than we do. The competitive pressures faced by us could materially and adversely affect our business, results of operations and financial condition.

The safety products market is highly competitive, with participants ranging in size from small companies focusing on single types of safety products, to large multinational corporations that manufacture and supply many types of safety products. Our main competitors vary by region and product. We believe that participants in this industry compete primarily on the basis of product characteristics (such as functional performance, technology, cost of ownership, comfort, design and style), price, service and delivery, customer support, the ability to meet the special requirements of customers, brand name trust and recognition, purchasing options, and e-business capabilities. Some of our competitors have greater financial and other resources than we do, and our business could be adversely affected by competitors' new product innovations, technological advances made to competing products and pricing changes made by us in response to competitive pressures faced by us could have a material adverse effect our business, consolidated results of operations and financial condition. In addition, e-business is a rapidly developing area, and the execution of a successful e-business strategy involves significant time, investment and resources. If we are unable to successfully expand e-business capabilities in support of our customer needs, our brands may lose market share, which could negatively impact revenue and profitability.

#### RISKS RELATED TO NEW AND ADJACENT INITIATIVES

#### Our plans to improve future profitability through restructuring programs may not be successful and could lead to unintended consequences.

We have incurred and may incur restructuring charges primarily related to severance costs for staff reductions associated with our ongoing initiatives to drive profitable growth and right size our operations as well as programs to adjust our operations in response to current business conditions. For example, in 2023, 152 positions were eliminated in response to the changing business environment. Our cost structure in future periods is somewhat dependent upon our ability to maintain increased productivity without backfilling certain positions. If our programs are not successful, there could be a material adverse effect on our business and consolidated results of operations.

#### Our inability to successfully identify, consummate and integrate current and future acquisitions or to realize anticipated cost savings and other benefits could adversely affect our business. Additionally, divestitures may expose us to alleged potential liabilities which could adversely affect our business.

One of our operating strategies is to selectively pursue acquisitions. Any future acquisitions will depend on our ability to identify suitable acquisition candidates and successfully consummate such acquisitions. Acquisitions involve a number of risks including:

- failure of the acquired businesses to achieve the results we expect;
- diversion of our management's attention from operational matters;
- our inability to retain key personnel of the acquired businesses;
- risks associated with unanticipated or underestimated events or liabilities;
- negative impacts due to evolving legal or regulatory landscape;
- potential disruption of our existing business; and
- customer dissatisfaction or performance problems at the acquired businesses.



If we are unable to integrate or successfully manage businesses that we have recently acquired or may acquire in the future, we may not realize anticipated cost savings, improved manufacturing efficiencies and increased revenue, which may result in material adverse short and long-term effects on our consolidated operating results, financial condition and liquidity. Even if we are able to integrate the operations of our acquired businesses into our operations, we may not realize the full benefits of the cost savings, revenue enhancements or other benefits that we may have expected at the time of acquisition. In addition, even if we achieve the expected benefits, we may not be able to achieve them within the anticipated time frame, and such benefits may be offset by costs incurred in integrating the acquired companies and increases in other expenses.

We have also divested businesses and may consider divesting businesses in the future. Divestiture risks relate to our ability to find appropriate purchasers, execute transactions on favorable terms, separate divested business operations with minimal impact to our remaining operations, and effectively manage any transitional service arrangements. Any of these factors could materially and adversely affect our consolidated results of operations and financial condition.

## If we fail to introduce successful new products or extend our existing product line, we could lose our market position and our financial performance could be materially and adversely affected.

In the safety products market, there are frequent introductions of new products and product line extensions. If we are unable to identify emerging customer and technological trends, maintain and improve the competitiveness of our products and introduce new products, we may lose our market position, which could have a material adverse effect on our business, financial condition and results of operations. We continue to invest significant resources in research and development and market research, which includes the development of software platforms for our connected products. However, continued product and/or service development and marketing efforts are subject to the risks inherent in the development process. These risks include delays, the failure of new products and product line extensions to achieve anticipated levels of market acceptance, disruptive products, technologies and services introduced by competitors, and the risk of failed product introductions.

#### RISKS RELATED TO CYBERSECURITY OR MISAPPROPRIATION OF OUR CRITICAL INFORMATION

# A failure of our information systems or a cybersecurity breach could materially and adversely affect our business, results of operations and financial condition.

The proper functioning and security of our information systems is critical to the operation and reputation of our business. This includes the systems that support and operate our Safety io and MSA+ platforms. Our information systems may be vulnerable to damage or disruption from natural or man-made disasters, computer viruses, power losses or other system or network failures. In addition, hackers, cyber-criminals and other persons could attempt to gain unauthorized access to our information systems with the intent of harming the Company, harming our information systems or obtaining sensitive information such as intellectual property, trade secrets, financial and business development information, and customer- and vendor-related information. To date, we have not experienced any known material breaches or material losses related to cyber-attacks. If our information systems or security fail, or if there is any compromise or breach of our security, it could disrupt our operations and/or result in a violation of applicable privacy and other laws, legal and financial exposure, remediation costs, negative impacts on our customers' willingness to transact business with us, or a loss of confidence in our security measures, which could have an adverse effect on our business, our reputation and our consolidated results of operations and financial condition.

From time to time, we have experienced attempts on our computer systems by unauthorized outside parties. Because the techniques used by computer hackers and others to access or sabotage networks continually evolve and generally are not recognized until launched against a target, we may be unable to anticipate, prevent or detect these attacks. As a result, the impact of any future incident cannot be predicted, including the failure of our information systems or misappropriation of our technologies and/or processes. Any such system failure or loss of such information could harm our competitive position or cause us to incur significant costs to remedy the damages caused by the incident. We have taken steps and incurred costs to further strengthen the security of our computer systems and continue to assess, maintain and enhance the ongoing effectiveness of our information security systems. While we attempt to mitigate the aforementioned risks by employing a number of measures, including employee training, monitoring of our networks and systems, and maintenance of backup and protective systems, our systems, networks, facilities, business partners and associates remain potentially vulnerable to advanced persistent threats. We cannot assure that ongoing improvements to our infrastructure and cybersecurity programs will be sufficient to prevent or limit the damage from any future cyber-attack or disruption to our information systems. It is therefore possible that we may suffer a cyber attack with a material breach or material loss, unauthorized parties may gain access to personal information in our possession and we may not be able to identify any such incident in a timely manner.



# Our continued success depends on our ability to protect our intellectual property. If we are unable to protect our intellectual property, our business could be materially and adversely affected.

Our success depends, in part, on our ability to obtain and enforce patents, maintain trade secret protection and know-how and operate without infringing on the proprietary rights of third parties. We have been issued patents and have registered trademarks with respect to many of our products, but our competitors could independently develop similar or superior products or technologies, duplicate any of our designs, trademarks, processes or other intellectual property or design around any processes or designs on which we have or may obtain patents or trademark protection. In addition, it is possible that third parties may have, or will acquire, licenses for patents or trademarks that we may use or desire to use, so that we may need to acquire licenses to, or to contest the validity of, such patents or trademarks of third parties. Such licenses may not be made available to us on acceptable terms, if at all, and we may not prevail in contesting the validity of third party rights.

We also protect trade secrets, know-how and other confidential information against unauthorized use by others or disclosure by persons who have access to them, such as our employees, through contractual arrangements. These agreements may not provide meaningful protection for our trade secrets, know-how or other proprietary information in the event of any unauthorized use, misappropriation or disclosure of such trade secrets, know-how or other proprietary information. Our inability to maintain the proprietary nature of our technologies could have a material adverse effect on our consolidated results of operations and financial condition.

#### **RISKS RELATED TO HUMAN CAPITAL MANAGEMENT**

# If we lose any of our key personnel or are unable to attract, train and/or retain qualified personnel or properly plan the succession of senior management, our ability to manage our business and continue our growth could be negatively impacted.

Our success depends in large part on the continued contributions of our key management, engineering, sales and marketing and other key personnel, many of whom are highly skilled and would be difficult to replace. Our success also depends on the abilities of personnel to function effectively, both individually and as a group. If we are unable to attract, effectively integrate and retain management, engineering, sales and marketing or other key personnel, then the execution of our company strategy and our ability to adapt and react to changing market requirements may be impeded, and our business could suffer as a result.

In addition, hiring, training, and successfully integrating replacement critical personnel could be time consuming, may cause additional disruptions to our operations, and may be unsuccessful, which could negatively impact future revenues. Competition for personnel is intense, and we cannot assure that we will be successful in attracting and retaining qualified personnel. The hiring of new personnel may also result in increased costs and we do not currently maintain key person life insurance.

Our success also depends on effective succession planning. Failure to ensure effective transfer of knowledge and smooth transitions involving senior management could hinder our strategic planning and execution. From time to time, senior management or other key employees may leave the Company. While we strive to reduce the negative impact of such changes, the loss of any key employee could result in significant disruptions to our operations, including adversely affecting the timeliness of product releases, the successful implementation and completion of company initiatives, the effectiveness of our disclosure controls and procedures and our internal control over financial reporting, and the results of our operations.

# We may be unable to hire, retain or develop a highly skilled and diverse global workforce or effectively manage changes in our workforce and respond to shifts in labor availability.

It is important to our business to hire, retain and develop a highly skilled and diverse global workforce. We compete to hire new personnel with a variety of capabilities in the many countries in which we manufacture and market our products. We also invest resources and time to develop and retain our employees' skills and competencies. We could experience unplanned or increased turnover of employees, fail to develop adequate succession plans for leadership positions, or fail to hire and retain a workforce with the skills and in the locations we need to operate and grow our business. We could also fail to attract and develop personnel with key emerging capabilities that we need to continue to respond to changing end user and customer needs and grow our business, including skills in the areas of manufacturing, engineering, sales, service, and various functional support areas. Occurrence of any of these conditions could deplete our institutional knowledge base and erode our competitiveness.

We continue to experience a tight and competitive labor market and could face unforeseen challenges in the availability of labor. A sustained labor shortage or increased turnover rates within our employee base have led and could lead to increased costs such as increased overtime to meet demand or increased wages to attract and retain employees. We have also been negatively affected and could continue to be negatively affected by labor shortages and other constraints experienced by our partners, including our external manufacturing partners and freight providers. Failure to achieve and maintain a diverse workforce, compensate our employees competitively and fairly, maintain a safe and inclusive environment or promote the well-being of our employees could affect our reputation and also result in lower performance and an inability to retain valuable employees.

#### RISKS RELATED TO DOING BUSINESS INTERNATIONALLY

#### We have significant international operations and are subject to the risks of doing business in foreign countries and global supply chains.

We have business operations in more than 40 international locations. In 2023, approximately one-half of our net sales were made by operations located outside the United States. We also rely on global supply chains or otherwise source critical components and raw materials from suppliers based in foreign countries, which at times are used in manufacturing operations across our global footprint. In certain cases, components could be sole sourced or otherwise not easily substituted due to the highly regulated or complex nature of our products. Therefore, our operations and sourcing strategies could face supply shortages, sourcing delays, changes in customer demand, or disruption due to various geopolitical, economic and natural disasters, as well as other risks and uncertainties related to doing business across borders, which could have a material adverse effect on our business. Further examples of such risks include the following:

- · Scarcity or unavailability of parts and components necessary to manufacture our products;
- unexpected changes in regulatory requirements;
- changes in trade policy or tariff regulations;
- changes in tax laws and regulations;
- unintended consequences due to changes to the Company's legal structure;
- additional valuation allowances on deferred tax assets due to an inability to generate sufficient profit in certain foreign jurisdictions;
- intellectual property protection difficulties or intellectual property theft;
- difficulty in collecting accounts receivable;
- complications in complying with a variety of foreign laws and regulations, some of which may conflict with U.S. laws;
- foreign privacy laws and regulations that impede our ability to effectively do business;
- negative impacts from trade protection measures and price controls;
- trade sanctions and embargoes;
- nationalization and expropriation of assets;
- increased international instability, potential instability of foreign governments or impacts from geopolitical conflict or wars, such as supplier or transportation disruptions;
- lack of effective compliance with MSA's anti-bribery policy, the U.S. Foreign Corrupt Practices Act, and similar local laws;
- difficulty in hiring, retaining and motivating qualified employees;
- difficulty in the ability to effectively negotiate with labor unions in foreign countries;
- the need to take extra security precautions for our international operations;
- · costs and difficulties in managing culturally and geographically diverse international operations;
- · pandemics, severe weather events, or other disasters; and



• risks associated with disruptive political events, such as the United Kingdom's decision to exit the European Union, including disruptions to trade and free movement of goods, services and people to and from the United Kingdom; increased foreign exchange volatility with respect to the British pound; and additional legal and economic uncertainty.

Any one or more of these risks could have a negative impact on the success of our global operations and, thereby, have a material adverse effect on our business, consolidated results of operations and financial condition.

## Because we derive a significant portion of our sales from the operations of our foreign subsidiaries, future currency exchange rate fluctuations could adversely affect our results of operations and financial condition and could affect the comparability of our results between financial periods.

Our operations outside of the United States account for a significant portion of our net sales. The results of our foreign operations are generally reported in local currency and then translated into U.S. dollars at the applicable exchange rates for inclusion in our consolidated financial statements. The exchange rates between some of these currencies and the U.S. dollar have fluctuated significantly in recent years and may continue to do so in the future. A weakening of the currencies in which sales are generated relative to the currencies in which costs are denominated would decrease our results of operations and cash flow. Although the Company uses instruments to hedge certain foreign currency risks, these hedges only offset a portion of the Company's exposure to foreign currency fluctuations.

In addition, because our consolidated financial statements are stated in U.S. dollars, such fluctuations may affect our consolidated results of operations and financial position, and they may affect the comparability of our results between financial periods. Our inability to effectively manage our exchange rate risks or any volatility in currency exchange rates could have a material adverse effect on our business, consolidated results of operations and financial condition.

# We benefit from free trade laws and regulations, such as the United States-Mexico-Canada Agreement and any changes to these laws and regulations could adversely affect our results of operations.

Existing free trade laws and regulations, such as the United States-Mexico-Canada Agreement, provide certain beneficial duties and tariffs for qualifying imports and exports, subject to compliance with the applicable classification and other requirements. Changes in laws or policies governing the terms of foreign trade, and in particular increased trade restrictions, tariffs or taxes on imports from countries where we manufacture products, such as China and Mexico, could have a material adverse effect on our business, consolidated results of operations and financial condition.

#### GENERAL RISK FACTORS

#### Damage to the reputation of MSA or to one or more of our product brands could adversely affect our business.

Developing and maintaining our reputation, as well as the reputation of our brands, is a critical factor in our relationship with customers, distributors, end users, suppliers, associates, and others. Our inability to address negative publicity or other issues, including concerns about product safety or quality, real or perceived, could negatively impact our business which could have a material adverse effect on our business, consolidated results of operations and financial condition.

#### If our goodwill, other intangible assets and long-lived assets become impaired, we may be required to record significant charges to earnings.

We review our long-lived assets for impairment when events or changes in circumstances indicate the carrying amount may not be recoverable. Goodwill and indefinite-lived intangible assets are required to be assessed for impairment at least annually. Factors that may be considered a change in circumstances, indicating that the carrying amount of our goodwill, indefinite-lived intangible assets or long-lived assets may not be recoverable, include slower growth rates in our markets, reduced expected future cash flows, increased country risk premiums as a result of political uncertainty and a decline in stock price and market capitalization. We consider available current information when calculating our impairment charge. If there are indicators of impairment, our long-term cash flow forecasts for our operations deteriorate or discount rates increase, we may be required to recognize additional impairment charges in later periods. See Note 13—Goodwill and Intangible Assets of the consolidated financial statements in Part II Item 8 of this Form 10-K for the carrying amounts of goodwill in each of our reporting segments and details on indefinite-lived intangible assets that we hold.



#### Failure to incorporate, or improperly incorporating, Artificial Intelligence (AI) could damage our business.

New and emerging technologies, including Generative AI, bring opportunities and risks, and the implications of using (or not using) these technologies are only starting to emerge. Our business is subject to and impacted by these rapid technological advances. To remain competitive, we review and enhance our products and safety solutions against new technologies, including exploring the use of Generative AI in our solutions. If we fail to anticipate or respond to technological advancements, the demand for our products may be diminished. If the Company fails to procure, adopt, or use AI in a way that is efficient and additive to our business, it may have an adverse effect on our business, consolidated results of operations or financial condition. Conversely, there are risks that using AI could result in inadvertent data loss or disclosure (including but not limited to confidential information), biased algorithms, heightened regulatory scrutiny or inadvertent non-compliance, over-dependence, misleading or incomplete outputs, privacy and cybersecurity risks, ethical concerns, intellectual property risks, and other risks that could lead to reputational harm or have an adverse effect on our business, consolidated results of operations or financial condition of operations or financial condition.

#### Risks related to our defined benefit pension and other post-retirement plans could adversely affect our results of operations and cash flow.

Significant changes in actual investment return on pension assets, discount rates, and other factors could adversely affect our results of operations and pension contributions in future periods. U.S. generally accepted accounting principles require that we calculate income or expense for the plans using actuarial valuations. These valuations reflect assumptions about financial markets and interest rates, which may change based on economic conditions. Funding requirements for our pension plans may become more significant. However, the ultimate amounts to be contributed are dependent upon, among other things, interest rates, underlying asset returns and the impact of legislative or regulatory changes related to pension funding obligations. For further information regarding our pension plans, refer to Note 15—Pensions and Other Post-retirement Benefits of the consolidated financial statements in Part II Item 8 of this Form 10-K.

### If we fail to meet our debt service requirements or the restrictive covenants in our debt agreements or if interest rates increase, our results of operations and financial condition could be materially and adversely affected.

We have a substantial amount of debt upon which we are required to make scheduled interest and principal payments and we may incur additional debt in the future. A significant portion of our debt bears interest at variable rates that may increase in the future.

Our debt agreements require us to comply with certain restrictive covenants. If we are unable to generate sufficient cash to service our debt or if interest rates increase, our consolidated results of operations and financial condition could be materially and adversely affected. Additionally, a failure to comply with the restrictive covenants contained in our debt agreements could result in a default, which if not waived by our lenders, could substantially increase borrowing costs and require accelerated repayment of our debt. Please refer to Note 12—Long-Term Debt of the consolidated financial statements in Part II Item 8 of this Form 10-K for commentary on our compliance with the restrictive covenants.

Any period of interest rate increases may adversely affect our ability to obtain new financing or to refinance existing debt on terms the Company deems attractive, the cost of such financing, exchange-rates, and our profitability, which in turn may have a material adverse effect on our liquidity and capital resources. As of December 31, 2023, we had \$292.1 million of variable rate borrowings under our senior revolving credit facility and 2023 term loan credit agreement. A 50 basis point increase or decrease in interest rates could result in \$1.7 million of additional interest expense.

### Item 1B. Unresolved Staff Comments

None.

#### Item 1C. Cybersecurity

#### **Risk Management and Strategy**

#### Managing Material Risks & Integrated Overall Risk Management

We assess, identify, and manage our cybersecurity risks by employing several processes, including conducting employee training, monitoring and testing our networks and systems, responding to vulnerability and threat assessments, and maintaining and refreshing backup and protective systems. Cybersecurity risk management is also a component of our overall Enterprise Risk Management ("ERM") program. Both the cybersecurity risk management component of the ERM program and associated risk management plans, including risk mitigation, are reviewed at regular intervals and updated as needed. Related reporting to management occurs on a routine basis, and the Board of Directors is updated through an established cadence via the Board's Audit Committee and the full Board.

The Company has an information security policy, and it provides cybersecurity training to employees on a recurring basis. As part of our processes, employees are trained on how to identify and report potential cybersecurity threats. The Company also engages in an ongoing process of risk assessments to identify and mitigate cybersecurity threats. This includes a vulnerability management program where such risks are identified, classified, and addressed. The Company conducts cybersecurity tabletop exercises to enhance mitigating controls and incident response preparedness. The Company also has incident response plans in place to address contingencies in the event of a cybersecurity incident.

#### Engage Third-parties on Risk Management

As part of our cybersecurity risk management process, MSA engages a range of third parties, including consultants, advisors, and auditors, to assist with security and maturity assessments, security operations, employee training and awareness, compliance, penetration testing, network and endpoint monitoring, threat intelligence, and our vulnerability management platform. These relationships enable us to access specialized knowledge and insights with respect to our cybersecurity strategies and processes.

#### Oversee Third-party Risk

We are aware of risks associated with third-party service providers, and the Company employs a third-party risk management program that includes a systematic evaluation of potential risks associated with engaging third-party vendors, suppliers or partners that may have access to Company sensitive information, systems, or networks. This process is also intended to provide for the security and integrity of the Company's data that may be stored on third-party systems. The process identifies and addresses potential security vulnerabilities, safeguarding Company information assets and reducing the overall risk of cyber threats. The Company's assessments begin during the onboarding of third parties and may continue throughout the relationship, based upon an assessment of third-party risk. Those assessments also include Company audit rights, third-party notification obligations, and security requirements for the retention of Company data. The Company maintains a team consisting of employees, contractors and consultants to oversee this process.

#### Risks from Cybersecurity Threats

From time to time, we have experienced attempts by unauthorized parties to access or disrupt our information technology systems. To date, we have not experienced any known material breaches or material losses related to cyber-attacks. However, a failure of our information systems or a cybersecurity breach could materially and adversely affect our business, results of operations and financial condition. See Item 1A, "Risks related to Cybersecurity or Misappropriation of Our Critical Information."

#### Governance

#### Board of Directors Oversight

The Audit Committee and the Board of Directors oversee and periodically review the design and effectiveness of the Company's cybersecurity program, as well as its contingency plans. On an established cadence, the Audit Committee and the Board of Directors are briefed by the Chief Information Security Officer ("CISO") on the status and progress of the cybersecurity program, as well as on direct or emerging threats to the Company, program maturity and strategy, and third-party risk management. Additionally, the Board of Directors receives ERM program briefings that include cybersecurity risks.



#### Management's Role Managing Risk

Company management is directly involved in assessing and managing risks from cybersecurity threats. The Company employs a CISO with substantial program management experience, along with a team of cybersecurity and IT professionals. The CISO reports directly to the Senior Vice President and Chief Product and Technology Officer, who is a member of the Company's Executive Leadership Team. Additionally, the CISO reports regularly on the cybersecurity program, including risks and mitigation, to the Cybersecurity Executive Steering Body. The Cybersecurity Executive Steering Body provides strategic oversight and is responsible for guiding and aligning organizational efforts to manage risks associated with cybersecurity threats. It is intended to ensure comprehensive risk management, effective policy development, and coordinated response measures to safeguard sensitive information and technology assets.

The Cybersecurity Executive Steering Body includes members of the Executive Leadership Team, among other senior managers, including crossfunctional representation from Cybersecurity, Product and Technology, Law, Finance, and Operations departments. Collectively, the Cybersecurity Executive Steering Body has decades of enterprise risk management experience, including cybersecurity risk management.

#### Monitor Cybersecurity Incidents

The Company's cybersecurity incident response plan provides a structured approach to prevent, detect, manage and mitigate a cybersecurity incident. Primary goals are to minimize harm to information technology systems and Company information, reduce recovery time, and ensure the continuity of operations. Internal resources manage and execute the Company's cybersecurity incident response plan with the support of retained external advisors. Plan testing and assessments occur to provide for the ongoing effectiveness against evolving threats. Pursuant to the plan, communication channels and escalation protocols are also maintained to engage and inform internal stakeholders – such as the Cybersecurity Executive Steering Body, corporate crisis management team, and other members of the Executive Leadership Team – of how incidents are prevented, detected, mitigated, and remediated.

The Company's measures to prevent and detect cyber security incidents include continuous monitoring of Company networks by a security operations team that includes a third-party managed security operations center. Employees throughout the Company are trained to report cybersecurity threats as they are identified. If an incident or suspected incident is reported, the cybersecurity team evaluates it for various factors, including severity and immediacy, pursuant to the Company's cybersecurity incident response plan.

#### Reporting to Board of Directors

The CISO regularly informs the Cybersecurity Executive Steering Body of cybersecurity risks and incidents. Accordingly, the highest levels of management are informed of the cybersecurity position and risks, and significant cybersecurity matters are elevated to the Audit Committee of the Board of Directors.



#### **Item 2. Properties**

Our principal executive offices are located at 1000 Cranberry Woods Drive, Cranberry Township, PA, United States. We own or lease our primary facilities. Our primary manufacturing locations in the Americas segment are located in Cranberry Township, PA; Jacksonville, NC; Murrysville, PA; New Kensington, PA; and Pittsfield, NH, and our primary distribution center is located in New Galilee, PA. The primary manufacturing locations in the International segment are located in Berlin, Germany; Bristol, United Kingdom; Châtillon-sur-Chalaronne, France, Devizes, United Kingdom; Galway, Ireland; Chelalate, Morocco; and Suzhou, China. Our primary research and development centers are located in Berlin, Germany; Cranberry Township, PA; Suzhou, China; and Johannesburg, South Africa.

We believe that all of our facilities, including the manufacturing facilities, are in good repair and in suitable condition for the purposes for which they are used.

#### **Item 3. Legal Proceedings**

Please refer to Note 20-Contingencies to the consolidated financial statements in Part II Item 8 of this Form 10-K.

#### Item 4. Mine Safety Disclosures

Not applicable.

#### Table of Contents

#### Information about our Executive Officers

The following sets forth the names and ages of our executive officers as of February 16, 2024:

|                                     | •          |   |
|-------------------------------------|------------|---|
| Name                                | <u>Age</u> | Title   |
| Nishan J. Vartanian <sup>(a)</sup>  | 64         | Chairman and Chief Executive Officer since June 2023.                         |
| Steven C. Blanco <sup>(b)</sup>     | 57         | President and Chief Operating Officer since June 2023.                        |
| Lee B. McChesney <sup>(c)</sup>     | 52         | Sr. Vice President, Chief Financial Officer and Treasurer since October 2022. |
| Richard W. Roda <sup>(d)</sup>      | 51         | Vice President, Secretary and Chief Legal Officer since June 2023.            |
| Stephanie L. Sciullo <sup>(e)</sup> | 39         | Sr. Vice President and President, MSA Americas segment since June 2023.       |

- (a) Prior to his present position, Mr. Vartanian served as Chairman, President and Chief Executive Officer since May 2020 and President and Chief Executive Officer since May 2018.
- (b) Prior to his present position, Mr. Blanco served as Sr. Vice President and President, MSA Americas segment since June 2022 and Vice President and President, MSA Americas segment since August 2017.
- (c) Prior to his present position, Mr. McChesney served as Vice President, Corporate Finance and Chief Financial Officer, Global Tools and Storage for Stanley Black & Decker, Inc. (a manufacturer of industrial tools and household hardware) since January 2021; Chief Financial Officer, Global Tools and Storage and Corporate FP&A since November 2019; and prior thereto served as President, Hand Tools, Accessories and Storage since 2016.
- (d) Prior to his present position, Mr. Roda served as Deputy General Counsel, Secretary and Chief Compliance Officer since January 2020; and prior thereto served as Associate General Counsel, Corporate Secretary and Chief Compliance Officer since December 2016.
- (e) Prior to her present position, Ms. Sciullo served as Sr. Vice President and Chief Legal Officer, Corporate Social Responsibility & Public Affairs since June 2022; Vice President and Chief Legal Officer since January 2020; and prior thereto served as Deputy General Counsel since 2016.

### PART II

#### Item 5. Market for the Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Our common stock is traded on the New York Stock Exchange under the symbol "MSA." On February 9, 2024, there were 142 registered holders of our shares of common stock.

#### **Issuer Purchases of Equity Securities**

| Period                         | Total Number of Shares<br>Purchased | 1  | Average Price Paid<br>Per Share | Total Number of Shares<br>Purchased as Part of<br>Publicly Announced<br>Plans or Programs | Maximum Number of<br>Shares that May Yet Be<br>Purchased<br>Under the Plans or<br>Programs |
|--------------------------------|-------------------------------------|----|---------------------------------|---|--|
| October 1 — October 31, 2023   | 28                                  | \$ | 146.31                          |   | 172,786  |
| November 1 — November 30, 2023 |                                     |    | —                               | —   | 156,653  |
| December 1 — December 31, 2023 | 101                                 | \$ | 165.29                          | —   | 161,580  |

The share repurchase program authorizes up to \$100.0 million in repurchases of MSA common stock in the open market and in private transactions. The share purchase program has no expiration date. The maximum number of shares that may be purchased is calculated based on the dollars remaining under the program and the respective month-end closing share price. We have purchased a total of 778,814 shares, or \$72.7 million, since this program's inception.

The above shares purchased during the quarter related to stock-based compensation transactions.

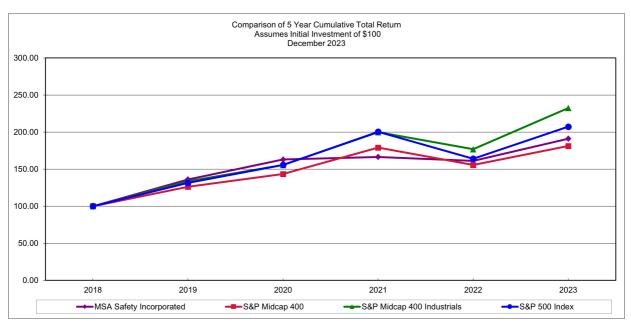
We do not have any other share repurchase programs.

### Comparison of Five-Year Cumulative Total Return

The following paragraph compares the most recent five-year performance of MSA stock with (1) the Standard & Poor's 500 Composite Index, (2) S&P Midcap 400 Index and (3) S&P Midcap 400 Industrials. Because our competitors are principally privately held concerns or subsidiaries or divisions of corporations engaged in multiple lines of business, we do not believe it feasible to construct a peer group comparison on an industry or line-of-business basis. The S&P 500 Composite Index, S&P Midcap 400 Index and the S&P Midcap 400 Industrials, while including corporations both larger and smaller than MSA in terms of market capitalization, is composed of corporations with an average market capitalization similar to us.

#### COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN ASSUMES INITIAL INVESTMENT OF \$100

Among MSA Safety Incorporated, the S&P 500 Index, S&P Midcap 400, and S&P Midcap 400 Industrials



Assumes \$100 invested on December 31, 2018 in stock or index, including reinvestment of dividends. Fiscal year ending December 31.

|                            |    | Value at December 31, |    |        |    |        |    |        |    |        |    |        |  |  |
|----------------------------|----|-----------------------|----|--------|----|--------|----|--------|----|--------|----|--------|--|--|
|                            |    | 2018 2019             |    |        |    | 2020   |    | 2021   |    | 2022   |    | 2023   |  |  |
| MSA Safety Incorporated    | \$ | 100.00                | \$ | 136.09 | \$ | 163.01 | \$ | 166.51 | \$ | 161.23 | \$ | 191.06 |  |  |
| S&P 500 Index              |    | 100.00                |    | 131.49 |    | 155.68 |    | 200.37 |    | 164.08 |    | 207.21 |  |  |
| S&P Midcap 400             |    | 100.00                |    | 126.20 |    | 143.44 |    | 178.95 |    | 155.58 |    | 181.15 |  |  |
| S&P Midcap 400 Industrials |    | 100.00                |    | 133.55 |    | 155.57 |    | 199.82 |    | 176.84 |    | 232.43 |  |  |

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Item 6. [Reserved]

#### Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis should be read in conjunction with the historical financial statements and other financial information included elsewhere in this annual report on Form 10-K. This discussion may contain forward-looking statements that involve risks and uncertainties. The forward-looking statements are not historical facts, but rather are based on current expectations, estimates, assumptions and projections about our industry, business and future financial results. Our actual results could differ materially from the results contemplated by these forward-looking statements due to a number of factors, including those discussed in the sections of this annual report entitled "Forward-Looking Statements" and "Risk Factors."

This section generally discusses the results of our operations for the year ended December 31, 2023 compared to the year ended December 31, 2022. For a discussion on the year ended December 31, 2022 compared to the year ended December 31, 2021, please refer to Part II, Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our Annual Report on Form 10-K for the year ended December 31, 2022 filed with the Securities and Exchange Commission on February 16, 2023.

MSA Safety Incorporated ("MSA") is organized into four geographical operating segments that are aggregated into three reportable segments: Americas, International and Corporate. The Americas segment is comprised of our operations in North America and Latin America geographies. The International segment is comprised of our operations of all geographies outside of the Americas. Certain global expenses are allocated to each segment in a manner consistent with where the benefits from the expenses are derived. Please refer to Note 8—Segment Information of the consolidated financial statements in Part II Item 8 of this Form 10-K for further information.

On January 5, 2023, the Company divested Mine Safety Appliances LLC ("MSA LLC") a wholly owned subsidiary that held legacy product liability claims relating to coal dust, asbestos, silica, and other exposures, to a joint venture between R&Q Insurance Holdings Ltd. and Obra Capital, Inc. In connection with the closing, MSA contributed \$341.2 million in cash and cash equivalents, while R&Q and Obra contributed an additional \$35.0 million. As a result of the transaction, MSA derecognized all legacy cumulative trauma product liability reserves, related insurance assets, and associated deferred tax assets of the divested subsidiary from its balance sheet in the first quarter of 2023. R&Q and Obra have assumed management of the divested subsidiary, including the management of its claims. Refer to Note 20—Contingencies of the consolidated financial statements in Part II Item 8 of this Form 10-K for further information.

#### **BUSINESS OVERVIEW**

MSA is the global leader in advanced safety products, technology and solutions. Driven by its singular mission of safety, the Company has been at the forefront of safety innovation since 1914, protecting workers and facility infrastructure around the world across a broad range of diverse end markets while creating sustainable value for shareholders.

We tailor our product offerings and distribution strategy to satisfy distinct customer preferences that vary across geographic regions. To best serve these customer preferences, we have organized our business into four geographical operating segments that are aggregated into three reportable segments: Americas, International and Corporate. In 2023, 69% and 31% of our net sales were made by our Americas and International segments, respectively.

*Americas.* Our largest manufacturing and research and development facilities are located in the United States. We serve our markets across the Americas with manufacturing facilities in the U.S., Mexico and Brazil. Operations in the other countries within the Americas segment focus primarily on sales and distribution in their respective home country markets.

International. Our International segment includes companies in Europe, the Middle East and Africa ("EMEA") and the Asia Pacific region. In our largest International subsidiaries (in Germany, France, U.K., Ireland and China), we develop, manufacture and sell a wide variety of products. In China, the products manufactured are sold primarily in China as well as in regional markets. Operations in other International segment countries focus primarily on sales and distribution in their respective home country markets. Although some of these companies may perform limited production, most of their sales are of products manufactured in our plants in Germany, France, the U.S., U.K., Ireland, Morocco and China or are purchased from third-party vendors.

*Corporate*. The Corporate segment primarily consists of general and administrative expenses incurred in our corporate headquarters, costs associated with corporate development initiatives, legal expense, interest expense, foreign exchange gains or losses and other centrally-managed costs. Corporate general and administrative costs comprise the majority of the expense in the Corporate segment. During the years ended December 31, 2023, and 2022 corporate general and administrative costs were \$52.7 million and \$40.3 million, respectively. These increases reflect an increase in centrally managed functions and is primarily the result of higher variable compensation expense related to sales growth and improved performance results from prior year.

#### Year Ended December 31, 2023 Compared to Year Ended December 31, 2022

| Net Sales<br>(In millions) | 2023      | 2022      | Dollar<br>Increase | Percent<br>Increase |
|----------------------------|-----------|-----------|--------------------|---------------------|
| Consolidated               | \$1,787.7 | \$1,527.9 | \$259.8            | 17.0%               |
| Americas                   | 1,235.6   | 1,043.2   | 192.4              | 18.4%               |
| International              | 552.1     | 484.7     | 67.4               | 13.9%               |

*Net Sales.* Net sales for the year ended December 31, 2023, were \$1.8 billion, an increase of \$0.3 billion, from \$1.5 billion for the year ended December 31, 2022, driven by volume growth and pricing actions. We saw healthy growth across product categories and both reporting segments. Constant currency sales increased by 16.1% for the year ended December 31, 2023. Please refer to the Net Sales table below for a reconciliation of the year over year sales change.

| Net Sales                      | Year Ended | Year Ended December 31, 2023 versus December 31, 2022 |              |  |  |  |  |  |  |  |
|--------------------------------|------------|---|--------------|--|--|--|--|--|--|--|
| (Percent Change)               | Americas   | International   | Consolidated |  |  |  |  |  |  |  |
| GAAP reported sales change     | 18.4%      | 13.9%   | 17.0%        |  |  |  |  |  |  |  |
| Currency translation effects   | (0.9)%     | (0.7)%  | (0.9)%       |  |  |  |  |  |  |  |
| Constant currency sales change | 17.5%      | 13.2%   | 16.1%        |  |  |  |  |  |  |  |

Note: Constant currency sales change is a non-GAAP financial measure provided by the Company to give a better understanding of the Company's underlying business performance. Constant currency sales change is calculated by deducting the percentage impact from currency translation effects from the overall percentage change in net sales.

Net sales for the Americas segment were \$1.2 billion for the year ended December 31, 2023, an increase of \$0.2 billion, or 18.4%, compared to \$1.0 billion for the year ended December 31, 2022. During 2023, constant currency sales in the Americas segment increased 17.5% compared to the prior year driven by volume growth and pricing actions. This growth was driven by increases in all products, particularly firefighter protective apparel and detection associated with healthy demand and improved output as well as backlog conversion as a result of continued progress with the supply chain and by applying the MSA Business System mindset.

Net sales for the International segment were \$552.1 million for the year ended December 31, 2023, an increase of \$67.4 million, or 13.9%, compared to \$484.7 million for the year ended December 31, 2022. Constant currency sales in the International segment increased 13.2% compared to the prior year period. This growth was driven by strength across most core products, particularly detection and breathing apparatus.

We expect to generate mid-single digit sales growth in 2024 with incremental margin and cash flow conversion aligned with our long-term targets. We expect to have greater visibility in the first half of the year and we will continue to be agile in the event the operating environment differs meaningfully from our expectations. There are a number of other evolving factors that will continue to influence our revenue and earnings outlook. These factors include, among other things, supply chain constraints, raw material availability, industrial employment rates, interest rate changes, military conflict, currency exchange volatility, the pace of economic recovery, and geopolitical risk. These or other conditions could impact our future results and growth expectations into 2024.

Refer to Note 8—Segment Information to the consolidated financial statements in Part II Item 8 of this Form 10-K, for information regarding sales by product group.

*Gross profit.* Gross profit for the year ended December 31, 2023 was \$852.1 million, an increase of \$178.3 million, or 26.5%, compared to \$673.8 million for the year ended December 31, 2022. The ratio of gross profit to net sales was 47.7% in 2023 compared to 44.1% in 2022. Volume leverage, price/cost management, favorable product mix and productivity efforts contributed to the gross profit improvement.

*Selling, general and administrative expenses.* Selling, general and administrative ("SG&A") expenses were \$396.6 million for the year ended December 31, 2023, an increase of \$57.7 million, or 17.0%, compared to \$338.9 million for the year ended December 31, 2022. Overall, selling, general and administrative expenses were 22.2% of net sales in both periods. Constant currency SG&A increased \$55 million or 16.4%, to support our revenue growth. The increase in SG&A was driven by the higher level of sales, increased variable compensation and inflation. Please refer to the Selling, general and administrative expenses table for a reconciliation of the year-over-year expense change.



| Selling, general, and administrative expenses | Year Ended<br>December 31, 2023 versus December 31, 2022 |
|---|--|
| (Percent Change)                              | Consolidated   |
| GAAP reported change                          | 17.0%  |
| Currency translation effects                  | (0.6)%   |
| Constant currency change                      | 16.4%  |

Note: Constant currency SG&A change is a non-GAAP financial measure provided by the Company to give a better understanding of the Company's underlying business performance. Constant currency SG&A change is calculated by deducting the percentage impact from currency translation effects from the overall percentage change in SG&A.

*Research and development expense.* Research and development expense was \$68.0 million for the year ended December 31, 2023, an increase of \$11.0 million, or 19.3%, compared to \$57.0 million for the year ended December 31, 2022. Research and development expense was 3.8% of net sales in 2023, compared to 3.7% of net sales in 2022.

We capitalized approximately \$12.1 million and \$8.7 million of software development costs during the years ended December 31, 2023 and 2022, respectively. Amortization expense for capitalized software development cost of \$10.4 million and \$7.9 million during the years ended December 31, 2023 and 2022, was recorded in costs of products sold on the Consolidated Statements of Income. Refer to Note 1—Significant Accounting Policies of the consolidated financial statements in Part II Item 8 of this Form 10-K for further details regarding our software development costs.

MSA remains committed to dedicating significant resources to research and development activities, including the development of technologybased safety solutions. As we continue to invest a significant portion of our new product development into technology-based safety solutions, we anticipate that the historical relationship of research and development expense to net sales will continue to evolve; however, we do not anticipate reductions in the relative level of total spend on research and development activities on an annual basis. Total spend on both software development and research and development activities was \$80.1 million and \$65.7 million during the years ended December 31, 2023 and 2022.

*Restructuring charges.* During the year ended December 31, 2023, the Company recorded restructuring charges of \$9.9 million primarily related to our ongoing manufacturing footprint optimization activities and other initiatives to adjust our cost structure and improve productivity. This compared to restructuring charges of \$8.0 million during the year ended December 31, 2022, primarily related to our ongoing international initiatives to drive profitable growth and right size operations. We remain focused on executing programs to optimize our cost structure.

*Currency exchange*. Currency exchange losses were \$17.1 million during the year ended December 31, 2023, compared to \$10.3 million during the year ended December 31, 2022. Currency exchange activity for both periods related primarily due to foreign currency exposure on unsettled inter-company balances and recognized exchange loss for our Argentina affiliate operating in a hyper-inflationary environment. During 2022, we also recognized non-cash cumulative translation losses as a result of our plan to close a foreign subsidiary.

Refer to Note 18—Derivative Financial Instruments of the consolidated financial statements in Part II Item 8 of this Form 10-K for information regarding our currency exchange rate risk management strategy.

*Product liability expense.* Product liability expense during the year ended December 31, 2023 was minimal due to our divestiture of MSA LLC. This compared to \$20.6 million for the year ended December 31, 2022, which related primarily to defense costs incurred for cumulative trauma product liability claims as well as an increase in MSA LLC's reserve for cumulative trauma product liability claims resulting from the annual valuation.

*Loss on divestiture of MSA LLC*. The \$129.2 million pre-tax loss on divestiture of MSA LLC for the year ended December 31, 2023 relates to the derecognition of all legacy cumulative trauma product liability reserves and related insurance assets of the divested subsidiary during the first quarter of 2023. The loss also includes a \$341.2 million contribution of cash and cash equivalents, as well as transaction related costs of \$5.6 million. Refer to Note 20—Contingencies to the consolidated financial statements in Part II Item 8 of this Form 10-K for further information.

*GAAP operating income.* Consolidated operating income for the year ended December 31, 2023 was \$231.3 million compared to \$239.1 million for the year ended December 31, 2022. The decrease in operating income was primarily driven by the loss on divestiture of MSA LLC, partially offset by strong operating results driven by higher sales and gross profit.

*Adjusted operating income.* Americas adjusted operating income for the year ended December 31, 2023 was \$359.6 million, an increase of \$92.2 million or 34%, compared to \$267.4 million for the year ended December 31, 2022. The increase in adjusted operating income is primarily attributable to higher sales and gross profit, partially offset by higher SG&A expenses to support business growth.

International adjusted operating income for the year ended December 31, 2023 was \$89.7 million, an increase of \$28.8 million, or 47%, compared to adjusted operating income of \$60.9 million for the year ended December 31, 2022. The increase in adjusted operating income is primarily attributable to higher sales and gross profit.

Corporate segment adjusted operating loss for the year ended December 31, 2023 was \$51.6 million, an increase of \$13.7 million, or 36%, compared to an adjusted operating loss of \$37.9 million for the year ended December 31, 2022 due primarily to higher performance based compensation expense related to sales growth and improved results from prior year.

The following tables represent a reconciliation from GAAP operating income to adjusted operating income (loss) and adjusted EBITDA. Adjusted operating margin % is calculated as adjusted operating income (loss) divided by net sales and adjusted EBITDA margin % is calculated as adjusted EBITDA divided by net sales.

| Adjusted operating income                             | Year Ended December 31, 2023 |           |                |               |    |           |              |  |  |  |
|---|------------------------------|-----------|----------------|---------------|----|-----------|--------------|--|--|--|
| (In thousands)  |                              | Americas  |                | International |    | Corporate | Consolidated |  |  |  |
| Net sales   | \$                           | 1,235,594 | \$             | 552,053       | \$ | — \$      | 1,787,647    |  |  |  |
| GAAP operating income                                 |                              |           |                |               |    |           | 231,320      |  |  |  |
| Restructuring charges (Note 3)                        |                              |           |                |               |    |           | 9,892        |  |  |  |
| Currency exchange losses, net                         |                              |           |                |               |    |           | 17,079       |  |  |  |
| Loss on divestiture of MSA LLC (Note 20)              |                              |           |                |               |    |           | 129,211      |  |  |  |
| Product liability expense (Note 20)                   |                              |           |                |               |    |           | 3            |  |  |  |
| Amortization of acquisition-related intangible assets |                              |           |                |               |    |           | 9,246        |  |  |  |
| Transaction costs <sup>(a)</sup>                      |                              |           |                |               |    |           | 965          |  |  |  |
| Adjusted operating income (loss)                      |                              | 359,617   |                | 89,699        |    | (51,600)  | 397,716      |  |  |  |
| Adjusted operating margin %                           |                              | 29.1 9    | %              | 16.2 %        | 6  |           |              |  |  |  |
| Depreciation and amortization                         |                              | 36,979    |                | 13,705        |    | 843       | 51,527       |  |  |  |
| Adjusted EBITDA                                       |                              | 396,596   |                | 103,404       |    | (50,757)  | 449,243      |  |  |  |
| Adjusted EBITDA %                                     |                              | 32.1 9    | V <sub>0</sub> | 18.7 %        | 6  |           |              |  |  |  |

<sup>(a)</sup> Transaction costs include advisory, legal, accounting, valuation, and other professional or consulting fees incurred during

acquisitions and divestitures. These costs are included in selling, general and administrative expense in the Consolidated Statements of Income.

| Adjusted operating income                             |    | Year Ended December 31, 2022 |    |               |          |           |              |  |  |  |  |  |
|---|----|------------------------------|----|---------------|----------|-----------|--------------|--|--|--|--|--|
| (In thousands)  |    | Americas                     |    | International |          | Corporate | Consolidated |  |  |  |  |  |
| Net sales   | \$ | 1,043,238                    | \$ | 484,715       | \$       | — \$      | 1,527,953    |  |  |  |  |  |
| GAAP operating income                                 |    |                              |    |               |          |           | 239,137      |  |  |  |  |  |
| Restructuring charges (Note 3)                        |    |                              |    |               |          |           | 7,965        |  |  |  |  |  |
| Currency exchange losses, net                         |    |                              |    |               |          |           | 10,255       |  |  |  |  |  |
| Product liability expense (Note 20)                   |    |                              |    |               |          |           | 20,590       |  |  |  |  |  |
| Amortization of acquisition-related intangible assets |    |                              |    |               |          |           | 9,207        |  |  |  |  |  |
| Transaction costs <sup>(a)</sup>                      |    |                              |    |               |          |           | 3,233        |  |  |  |  |  |
| Adjusted operating income (loss)                      |    | 267,392                      |    | 60,923        |          | (37,928)  | 290,387      |  |  |  |  |  |
| Adjusted operating margin %                           |    | 25.6 %                       | %  | 12.6 0        | <b>0</b> |           |              |  |  |  |  |  |
| Depreciation and amortization                         |    | 34,334                       |    | 12,256        |          | 520       | 47,110       |  |  |  |  |  |
| Adjusted EBITDA                                       |    | 301,726                      |    | 73,179        |          | (37,408)  | 337,497      |  |  |  |  |  |
| Adjusted EBITDA %                                     |    | 28.9 9                       | %  | 15.1 %        | 6        |           |              |  |  |  |  |  |

<sup>(a)</sup> Transaction costs include advisory, legal, accounting, valuation, and other professional or consulting fees incurred during acquisitions and divestitures. These costs are included in selling, general and administrative expense in the Consolidated Statements of Income.

Note: Adjusted operating income (loss) and adjusted EBITDA are non-GAAP financial measures. Adjusted operating income (loss) is reconciled above to the nearest GAAP financial measure, Operating income (loss), and excludes restructuring, currency exchange, product liability expense, loss on divestiture of MSA LLC, transaction costs and acquisition-related amortization. Adjusted EBITDA is reconciled above to the nearest GAAP financial measure, Operating income (loss) and excludes depreciation expense. Adjusted operating margin % and Adjusted EBITDA % are operating ratios derived from non-GAAP financial measures.

*Total other expense (income), net.* Total other expense, net, for the year ended December 31, 2023, was \$24.6 million, an increase of \$24.0 million compared to \$0.6 million for the year ended December 31, 2022, due primarily to increased interest expense related to higher interest rates and increased debt balances associated with the MSA LLC divestiture as well as decreased pension income driven by a lower expected rate of return. We expect total interest expense for 2024 to be approximately \$40 million, this decrease is primarily related to significant long-term debt payments made during 2023. We expect non-cash pension income to increase by \$2 million compared to 2023.

*Income taxes.* The reported effective tax rate for the year ended December 31, 2023 was 71.6% compared to 24.7% for the year ended December 31, 2022. This significant variance from the prior year is primarily due to the divestiture of MSA LLC and the non-deductible loss recorded on the derecognition of the product liability reserves and related assets partially offset by a \$5.3 million tax adjustment for Switzerland tax reform. Refer to Note 20—Contingencies to consolidated financial statements in Part II Item 8 of this Form 10-K for further information on the MSA LLC divestiture.

The Organization for Economic Co-operation and Development (OECD) has a framework to implement a global minimum corporate tax of 15% for companies with global revenues above  $\notin$ 750.0 million (referred to as Pillar 2), with effective dates beginning in January 2024. While it is uncertain whether the U.S. will enact legislation to adopt Pillar 2, we meet the overall revenue threshold and therefore fall within the scope of Pillar 2. At this time, we do not expect Pillar 2 to have a material impact on our effective tax rate or our consolidated results of operation, financial position, and cash flows. We continue to monitor the potential financial impacts and compliance requirements of Pillar 2.

We are subject to regular review and audit by both foreign and domestic tax authorities. While we believe our tax positions will be sustained, the final outcome of tax audits and related litigation may differ materially from the tax amounts recorded in our consolidated financial statements.

*Net income attributable to MSA Safety Incorporated.* Net income was \$58.6 million for the year ended December 31, 2023, or \$1.48 per diluted share, compared to \$179.6 million, or \$4.56 per diluted share, for the year ended December 31, 2022.

### **Non-GAAP Financial Information**

To supplement our Consolidated Financial Statements presented in accordance with generally accepted accounting principles ("GAAP"), we use, and this report includes, certain non-GAAP financial measures. These financial measures include constant currency changes, financial measures excluding the impact of acquisitions and related acquisition related costs (including acquisition related amortization), adjusted operating income, adjusted operating margin percentage, adjusted EBITDA and adjusted EBITDA margin percentage. We believe that the use of these non-GAAP financial measures provide investors with additional useful information and provide a more complete understanding of our operating performance and trends, and facilitate comparisons with the performance of our peers. Management also uses these measures internally to assess and better understand our underlying business performance and trends related to core business activities. The non-GAAP financial measures and key performance indicators we use, and computational methods with respect thereto, may differ from the non-GAAP financial measures and key performance indicators, and computational methods, that our peers use to assess their performance and trends.

The presentation of these non-GAAP financial measures does not comply with U.S. GAAP. These non-GAAP financial measures should be viewed as supplemental in nature, and not as a substitute for, or superior to, our reported results prepared in accordance with GAAP. When non-GAAP financial measures are disclosed, the Securities and Exchange Commission's Regulation G requires: (i) the presentation of the most directly comparable financial measure calculated and presented in accordance with GAAP and (ii) a reconciliation of the differences between the non-GAAP financial measure presented and the most directly comparable financial measure calculated and presented in accordance with GAAP. For an explanation of these measures, together with a reconciliation to the most directly comparable GAAP financial measure, please refer to the reconciliations referenced above in Management's Discussion & Analysis.

We may also provide financial information on a constant currency basis, which is a non-GAAP financial measure. These references to a constant currency basis do not include operational impacts that could result from fluctuations in foreign currency rates, which are outside of management's control. To provide information on a constant currency basis, the applicable financial results are adjusted by translating current and prior period results in local currency to a fixed foreign exchange rate. This approach is used for countries where the functional currency is the local country currency. This information is provided so that certain financial results can be viewed without the impact of fluctuations in foreign currency rates, thereby facilitating period-to-period comparisons of business performance. Constant currency information is not recognized under U.S. GAAP and it is not intended as an alternative to U.S. GAAP measures.

#### LIQUIDITY AND CAPITAL RESOURCES

Our main source of liquidity is operating cash flows, supplemented by borrowings. Our principal liquidity requirements are for working capital, capital expenditures, principal and interest payments on debt, declared dividend payments and acquisitions. At December 31, 2023, approximately 52% of our long-term debt is at fixed interest rates with repayment schedules through 2036. The remainder of our long-term debt is at variable rates on an unsecured revolving credit facility that is due in 2026. At December 31, 2023, approximately 83% of our borrowings are denominated in US dollars, which limits our exposure to currency exchange rate fluctuations.

At December 31, 2023, the Company had cash and cash equivalents, including restricted cash, totaling \$148.4 million, and access to sufficient capital, providing ample liquidity and flexibility to continue to maintain our balanced capital allocation strategy that prioritizes growth investments, funding our dividends and servicing debt obligations. Cash, cash equivalents and restricted cash decreased \$16.0 million during the year ended December 31, 2023. The cash flow activity reflects strong operating results and working capital performance being offset by the MSA LLC divestiture as discussed below. This compared to cash increasing \$23.0 million during the same period in 2022.

At December 31, 2023, \$838.1 million of the existing \$900.0 million senior revolving credit facility was unused, including letters of credit issued under the facility. The facility also provides an accordion feature that allows the Company to access an additional \$400.0 million of capacity pending approval by MSA's board of directors and from the bank group.

We believe MSA's healthy balance sheet and access to significant capital at the year ended December 31, 2023, positions us well to navigate through challenging business conditions and supply chain constraints or other unexpected events.



*Operating activities.* Operating activities provided cash of \$92.9 million in 2023, compared to providing cash of \$157.5 million in 2022. The decreased operating cash flow as compared to the same period in 2022 was primarily related to the contribution of \$341.2 million in the divestiture of MSA LLC. Refer to Note 20—Contingencies to the consolidated financial statements in Part II Item 8 of this Form 10-K for further information. This decrease was mostly offset by working capital improvement, notably for inventories, which was the result of a more normal supply chain environment and focus for the business and improved operating results. Sustainable progress across all elements of net working capital are being delivered through the principles of the MSA Business System.

*Investing activities.* Investing activities used cash of \$40.0 million for the year ended December 31, 2023, compared to using \$4.5 million in 2022. The increase in cash used in investing activities as compared to the same period in 2022 was primarily related to the absence of short-term investment activity. Our investments in available-for-sale marketable securities, primarily fixed income, were transferred to Sag Main Holdings, LLC, as part of our MSA LLC divestiture as described in Note 20—Contingencies to the consolidated financial statements in Part II Item 8 of this Form 10-K. We remain committed to evaluating additional acquisition opportunities that will allow us to continue to grow in key end markets and geographies.

*Financing activities.* Financing activities used cash of \$52.3 million for the year ended December 31, 2023, compared to using cash of \$113.4 million in 2022. During 2023, we had net proceeds on long-term debt of \$23.9 million to fund the MSA LLC divestiture as compared to net payments on long-term debt of \$13.0 million during the same period in 2022. Since the MSA LLC divestiture in January 2023, we have paid down \$289.0 million of our outstanding borrowings. We paid cash dividends of \$73.5 million during 2023, compared to \$71.5 million during 2022. We used cash of \$4.0 million during 2023 to repurchase shares related to our employee stock compensation transactions. We used cash of \$34.4 million during 2022, including \$30.4 million related to our share repurchase program with the remainder related to employee stock compensation transactions.

#### CUMULATIVE TRANSLATION ADJUSTMENTS

The year-end position of the U.S. dollar relative to international currencies at December 31, 2023, resulted in a translation gain of \$21.7 million being recorded to cumulative translation adjustments shareholders' equity account for the year ended December 31, 2023, compared to a translation loss of \$19.5 million being recorded to the cumulative translation adjustments account during 2022.

#### COMMITMENTS AND CONTINGENCIES

We are obligated to make future payments under various contracts, including debt and lease agreements. Our significant cash obligations as of December 31, 2023, are as follows:

| (In millions)                       |    | Total | 2024       | 2025 |      |    | 2026  | 2027       | 2028       | Thereafter |       |
|-------------------------------------|----|-------|------------|------|------|----|-------|------------|------------|------------|-------|
| Long-term debt                      | \$ | 604.3 | \$<br>26.5 | \$   | 32.8 | \$ | 256.1 | \$<br>32.8 | \$<br>32.8 | \$         | 223.3 |
| Operating leases                    |    | 63.9  | 11.1       |      | 9.5  |    | 7.9   | 6.4        | 5.5        |            | 23.5  |
| Inventory costing method change tax |    | 5.3   | 2.7        |      | 2.6  |    | —     | —          |            |            | —     |
| Transition tax                      |    | 1.3   | 1.3        |      |      |    | _     | —          |            |            | —     |
| Totals                              | \$ | 674.8 | \$<br>41.6 | \$   | 44.9 | \$ | 264.0 | \$<br>39.2 | \$<br>38.3 | \$         | 246.8 |

The significant obligations table does not include obligations to taxing authorities due to uncertainty surrounding the ultimate settlement of amounts and timing of these obligations.

We expect to meet our future debt service obligations through cash provided by operations. Approximately \$60.8 million of debt payable in 2026, included in the table above, relates to our unsecured senior revolving credit facility that has a weighted average interest rate of 6.22% as of December 31, 2023. We expect to generate sufficient operating cash flow to make payments against this amount each year. To the extent that a balance remains when the facility matures in 2026, we expect to refinance the remaining balance through new borrowing facilities. Interest payments on fixed rate debt over the next five years are excluded from the table above and are expected to be approximately \$9.8 million in 2024, \$9.6 million in 2025, \$9.3 million in 2026, \$8.5 million in 2027 and \$7.0 million in 2028. We expect total interest expense for 2024 to be approximately \$40 million.



The Company had outstanding bank guarantees and standby letters of credit with banks as of December 31, 2023 totaling \$9.1 million, of which \$1.1 million relate to the senior revolving credit facility. These letters of credit serve to cover customer requirements in connection with certain sales orders and insurance companies. The Company is also required to provide cash collateral in connection with certain arrangements. At December 31, 2023, the Company has \$2.0 million of restricted cash in support of these arrangements.

We expect to make net contributions of \$5.0 million to our pension plans in 2024 which are primarily associated with our International segment. We have not been required to make contributions to our U.S. based qualified defined benefit pension plan in many years.

We have purchase commitments for materials, supplies, services and property, plant and equipment as part of our ordinary conduct of business.

Please refer to Note 20—Contingencies to the consolidated financial statements in Part II Item 8 of this Form 10-K for further discussion on the Company's product liabilities.

#### CRITICAL ACCOUNTING POLICIES AND ESTIMATES

We prepare our consolidated financial statements in accordance with U.S. generally accepted accounting principles (U.S. GAAP). The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses and the related disclosures. We evaluate these estimates and judgments on an on-going basis based on historical experience and various assumptions that we believe to be reasonable under the circumstances. However, different amounts could be reported if we had used different assumptions and in light of different facts and circumstances. Actual amounts could differ from the estimates and judgments reflected in our consolidated financial statements. A summary of the Company's significant accounting policies is included in Note 1—Significant Accounting Policies to the consolidated financial statements in Part II, Item 8 of this Form 10-K.

The more critical judgments and estimates used in the preparation of our consolidated financial statements are discussed below. During 2021, the Company made acquisitions that raised business combinations to a critical accounting policy and estimate. There were no business combinations during 2023 or 2022.

*Business combinations.* In accordance with the accounting guidance for business combinations, the Company uses the acquisition method of accounting to allocate costs of acquired businesses to the assets acquired and liabilities assumed based on their estimated fair values at the dates of acquisition. The excess costs of acquired businesses over the fair values of the assets acquired and liabilities assumed will be recognized as goodwill. The valuations of the acquired assets and liabilities will impact the determination of future operating results. In addition to using management estimates and negotiated amounts, the Company uses a variety of information sources to determine the estimated fair values of acquired assets and liabilities including: third-party appraisals for the estimated value and lives of identifiable intangible assets and property, plant and equipment; third-party actuaries for the estimated obligations of defined benefit pension plans and similar benefit obligations; and legal counsel or other experts to assess the obligations associated with legal, environmental and other contingent liabilities.

The business and technical judgment of management was used in determining which intangible assets have indefinite lives and in determining the useful lives of finite-lived intangible assets in accordance with the accounting guidance for goodwill and other intangible assets.

*Cumulative trauma product liability.* The Company and its subsidiaries face an inherent business risk of exposure to product liability claims arising from the alleged failure of our products to prevent the types of personal injury or death against which they are designed to protect. Product liability claims are categorized as either single incident or cumulative trauma.

Single incident product liability claims involve incidents of short duration that are typically known when they occur and involve observable injuries, which provide a more objective basis for quantifying damages. The Company estimates its subsidiaries' liability for single incident product liability claims based on expected settlement costs for asserted single incident product liability claims and an estimate of costs for single incident product liability claims incurred but not reported ("IBNR"). Single incident product liability exposures are evaluated on an annual basis, or more frequently if changing circumstances warrant. Adjustments are made to the reserve as appropriate.



Cumulative trauma product liability claims relate to the Company's now-divested subsidiary, MSA LLC and involve exposures to harmful substances that occurred over many years and may have developed over long periods of time into diseases. Refer to Note 20—Contingencies to the consolidated financial statements in Part II Item 8 of this Form 10-K for further discussion on the Company's product liability claims and divestiture of MSA LLC on January 5, 2023. Prior to the divestiture, MSA LLC's cumulative trauma product liability reserve was based upon an estimate of MSA LLC's then current and potential future liability for cumulative trauma product liability claims, in accordance with applicable accounting principles. See further discussion on the process and assumptions used to derive this estimate in Note 20—Contingencies of the consolidated financial statements in Part II Item 8 of MSA's Form 10-K for the year ended December 31, 2022.

*Income taxes.* We recognize deferred tax assets and liabilities using enacted tax rates to record the tax effect of temporary differences between the book and tax basis of recorded assets and liabilities. We record valuation allowances to reduce deferred tax assets to the amounts that we estimate are probable to be realized. When assessing the need for valuation allowances, we consider projected future taxable income and prudent and feasible tax planning strategies. Should a change in circumstances lead to a change in our judgments about the realizability of deferred tax assets in future years, we adjust the related valuation allowances in the period that the change in circumstances occurs.

We record an estimated income tax liability based on our best judgment of the amounts likely to be paid in the various tax jurisdictions in which we operate. We record tax benefits related to uncertain tax positions taken or expected to be taken on a tax return when such benefits meet a more likely than not threshold. We recognize interest related to unrecognized tax benefits in interest expense and penalties in operating expenses. The tax liabilities ultimately paid are dependent on a number of factors, including the resolution of tax audits, and may differ from the amounts recorded. Tax liabilities are adjusted through income when it becomes probable that the actual liability differs from the amount recorded.

*Pensions and other post-retirement benefits.* We sponsor certain pension and other post-retirement benefit plans. Accounting for the net periodic benefit costs and credits for these plans requires us to estimate the cost of benefits to be provided well into the future and to attribute these costs over the expected work life of the employees participating in these plans. These estimates require our judgment about discount rates used to determine these obligations, expected returns on plan assets, rates of future compensation increases, rates of increase in future health care costs, participant withdrawal and mortality rates and participant retirement ages. Differences between our estimates and actual results may significantly affect the cost of our obligations under these plans and could cause net periodic benefit costs and credits to change materially from year-to-year. Discount rates and plan asset valuations are point-in-time measures. The discount rate assumptions used in determining projected benefit obligations for our U.S. and foreign plans were based on the spot rate method at December 31, 2023. Expected returns on plan assets are based on capital market expectations by asset class.

The following table summarizes the impact of changes in significant actuarial assumptions on our December 31, 2023 actuarial valuations.

|   | Impact of Changes in Actuarial Assumptions |          |    |          |    |                  |               |       |    |                   |              |            |
|---|--|----------|----|----------|----|------------------|---------------|-------|----|-------------------|--------------|------------|
|   | Change in Discount<br>Rate                 |          |    |          |    | Change ir<br>Ret | ı Exp<br>turn | ected |    | Change in M<br>As | arke<br>sets | t Value of |
| (In thousands)                                      |  | 1%       |    | (1)%     |    | 1%               |               | (1)%  | 5% |                   |              | (5)%       |
| (Decrease) increase in net benefit cost             | \$   | (906)    | \$ | 1,035    | \$ | (5,767)          | \$            | 5,767 | \$ | (384)             | \$           | 355        |
| (Decrease) increase in projected benefit obligation |  | (55,749) |    | 67,271   |    | _                |               | _     |    | _                 |              | _          |
| Increase (decrease) in funded status                |  | 55,749   |    | (67,271) |    |                  |               |       |    | 28,106            |              | (28,106)   |

*Goodwill and Indefinite-lived Intangible Assets.* On October 1<sup>st</sup> of each year, or more frequently if indicators of impairment exist or if a decision is made to sell a business, we evaluate goodwill for impairment. Such indicators may include a decline in expected cash flows, a significant adverse change in the business climate, unanticipated competition, slower growth rates, or negative developments in equity and credit markets, among others.

All goodwill is assigned to and evaluated for impairment at the reporting unit level, which is defined as an operating segment or one level below an operating segment. The evaluation of impairment involves using either a qualitative or quantitative approach as outlined in Accounting Standards Codification ("ASC") Topic 350. In 2023, we performed a quantitative test at October 1, 2023. Quantitative testing involves comparing the estimated fair value of each reporting unit to its carrying value. We estimate reporting unit fair value using a weighted average of fair values determined by discounted cash flow ("DCF") and market approach methodologies, as we believe both are important indicators of fair value. A number of assumptions and estimates are involved in the application of the DCF model, including sales volumes and prices, costs to produce, tax rates, capital spending, discount rates, and working capital changes. Cash flow forecasts are generally based on approved business unit operating plans for the early years and historical relationships in later years. The market approach methodology measures value through an analysis of peer companies. The analysis entails measuring the multiples of EBITDA at which peer companies are trading.

In the event the carrying value is in excess of the estimated fair value of a reporting unit per the weighted average of the DCF and market approach models, an impairment loss equal to such excess would be recognized, which could materially and adversely affect reported consolidated results of operations and shareholders' equity. At October 1, 2023, based on our quantitative test, the fair values of each of our reporting units exceeded their respective carrying value by at least 76%.

The intangible asset with an indefinite life is also subject to impairment testing on October 1<sup>st</sup> of each year, or more frequently if indicators of impairment exist. The impairment test compares the fair value of the intangible asset with its carrying amount. We perform a quantitative assessment of the indefinite lived trade name intangible asset as outlined in ASC 350 by comparing the estimated fair value of the trade name intangible asset to its carrying value. We estimate the fair value using the relief from royalty income approach. A number of significant assumptions and estimates are involved in the application of the relief from royalty model, including sales volumes and prices, royalty rates and tax rates. Forecasts are based on sales generated by the underlying trade name assets and are generally based on approved business unit operating plans for the early years and historical relationships in later years. At October 1, 2023, based on our quantitative test, the fair value of the trade name asset exceeded its carrying value by approximately 39%.

#### RECENTLY ADOPTED AND RECENTLY ISSUED ACCOUNTING STANDARDS

None

# Item 7A. Quantitative and Qualitative Disclosures About Market Risk

Market risk represents the risk of adverse changes in the value of a financial instrument caused by changes in currency exchange rates, interest rates and equity prices. We are exposed to market risks related to currency exchange rates and interest rates.

*Currency exchange rates.* We are subject to the effects of fluctuations in currency exchange rates on various transactions and on the translation of the reported financial position and operating results of our non-U.S. companies from local currencies to U.S. dollars. A hypothetical 10% strengthening or weakening of the U.S. dollar would increase or decrease our reported sales and net income for the year ended December 31, 2023 by approximately \$71.3 million and \$10.1 million, or 4.0% and 17.3%, respectively.

When appropriate, we may attempt to limit our transactional exposure to changes in currency exchange rates through forward contracts or other actions intended to reduce existing exposures by creating offsetting currency exposures. At December 31, 2023, we had open foreign currency forward contracts with a U.S. dollar notional value of \$110.9 million. A hypothetical 10% increase in December 31, 2023 forward exchange rates would result in a \$11.1 million increase in the fair value of these contracts.

*Interest rates.* We are exposed to changes in interest rates primarily as a result of borrowing and investing activities used to maintain liquidity and fund business operations. Because of the relatively short maturities of temporary investments and the variable rate nature of our revolving credit facility, these financial instruments are reported at carrying values which approximate fair values.

At December 31, 2023, we had \$312.2 million of fixed rate debt which matures at various dates through 2036. The incremental increase in the fair value of fixed rate long-term debt resulting from a hypothetical 10% decrease in interest rates would be approximately \$9.4 million. However, our sensitivity to interest rate declines and the corresponding increase in the fair value of our debt portfolio would unfavorably affect earnings and cash flows only to the extent that we elected to repurchase or retire all or a portion of our fixed rate debt portfolio at prices above carrying values.

At December 31, 2023, we had \$292.1 million of variable rate borrowings under our revolving credit facility. A 50 basis point increase or decrease in interest rates could have a \$1.7 million impact on future pre-tax earnings under our current capital structure.

### Item 8. Financial Statements and Supplementary Data

### Management's Reports to Shareholders

## Management's Report on Responsibility for Financial Reporting

Management of MSA Safety Incorporated (the Company) is responsible for the preparation of the consolidated financial statements included in this annual report. The consolidated financial statements were prepared in accordance with accounting principles generally accepted in the United States of America and include amounts that are based on the best estimates and judgments of management. The other financial information contained in this annual report is consistent with the consolidated financial statements.

# Management's Report on Internal Control Over Financial Reporting

Management is responsible for establishing and maintaining adequate internal control over financial reporting. The Company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

The Company's internal control over financial reporting includes policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and dispositions of assets; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures are being made only in accordance with authorizations of management and the directors of the Company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Company's assets that could have a material effect on our financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management assessed the effectiveness of the Company's internal control over financial reporting as of December 31, 2023. In making this assessment, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control-Integrated Framework (2013). Based on our assessment and those criteria, management has concluded that the Company maintained effective internal control over financial reporting as of December 31, 2023.

The Company's Independent registered public accounting firm that audited the consolidated financial statements included in this annual report issued an attestation report on the Company's internal control over financial reporting.

/s/ NISHAN J. VARTANIAN

Nishan J. Vartanian Chairman and Chief Executive Officer

S/ LEE B. MCCHESNEY

Lee B. McChesney Senior Vice President and Chief Financial Officer

February 16, 2024

### **Report of Independent Registered Public Accounting Firm**

To the Shareholders and the Board of Directors of MSA Safety Incorporated

#### **Opinion on Internal Control over Financial Reporting**

We have audited MSA Safety Incorporated's internal control over financial reporting as of December 31, 2023, based on criteria established in Internal Control - Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, MSA Safety Incorporated (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2023, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 31, 2023 and 2022, the related consolidated statements of income, comprehensive income, cash flows, and changes in retained earnings, accumulated other comprehensive loss and noncontrolling interests for each of the three years in the period ended December 31, 2023, and the related notes and financial statement schedule listed in the Index at Item 15(a) 2 and our report dated February 16, 2024 expressed an unqualified opinion thereon.

#### **Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

### Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

Pittsburgh, Pennsylvania February 16, 2024

### **Report of Independent Registered Public Accounting Firm**

To the Shareholders and the Board of Directors of MSA Safety Incorporated

#### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of MSA Safety Incorporated (the Company) as of December 31, 2023 and 2022, the related consolidated statements of income, comprehensive income, cash flows, and changes in retained earnings, accumulated other comprehensive loss and noncontrolling interests for each of the three years in the period ended December 31, 2023, and the related notes and financial statement schedule listed in the Index at Item 15(a) 2 (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2023 and 2022, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2023, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2023, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), and our report dated February 16, 2024 expressed an unqualified opinion thereon.

#### **Basis for Opinion**

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

#### **Critical Audit Matter**

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of the critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

# Divestiture of MSA LLC

| Description of the Matter | As more fully described in Note 20 to the consolidated financial statements, on January 5, 2023, the Company entered into a membership interest purchase agreement (the "Purchase Agreement") with Sag Main Holdings, LLC (the "Buyer") under which the Company transferred to the Buyer all of the issued and outstanding limited liability company interests of MSA LLC (the "Sale"). As MSA LLC was the obligor for the Company's legacy cumulative trauma product liability reserves and policyholder of the related insurance assets, the rights and obligations related to these items remained with MSA LLC when it transferred to the Buyer's ownership pursuant to the Purchase Agreement. Following the completion of the Sale and the transfer of MSA LLC to the Buyer, the Company no longer has any obligation with respect to pending and future cumulative trauma product liability claims relating to MSA LLC. As such, all legacy cumulative trauma product liability reserves and related insurance assets were derecognized. The Company incurred a pre-tax loss on divestiture of MSA LLC of \$129.2 million during the year ended December 31, 2023. |
|---------------------------|---|
|                           | Auditing management's evaluation of the divestiture of MSA LLC and the corresponding derecognition of the legacy cumulative trauma product liability reserves and related insurance assets was challenging and required additional audit effort given the complexity of the accounting guidance and the evaluation of the Purchase Agreement and other related agreements to assess whether the criteria were met to derecognize the legacy cumulative trauma product liability reserves and related insurance assets.  |
|                           | We obtained an understanding, evaluated the design, and tested the operating effectiveness of relevant internal controls over the Company's divestiture of MSA LLC, including the controls related to the evaluations performed to determine whether the criteria to derecognize the legacy cumulative trauma product liability reserves and related insurance assets were met.   |
|                           | To test the Company's accounting evaluations surrounding the divestiture of MSA LLC, we performed audit procedures which included, among others: reading the minutes of the meetings of the board of directors and the committees of the board, reading the Purchase Agreement and related agreements to evaluate whether any provisions or circumstances were present that would provide the Company the power or control over the divested assets and liabilities or that may provide for any characteristics of continuing involvement in the management of the legacy cumulative trauma product liability reserves and related insurance assets, performing a search for new or contrary evidence, and obtaining a representation letter from the Company. We engaged professionals with specialized skill and knowledge to assist in performing these procedures. Our procedures also included evaluating the sufficiency of the Company's disclosures with respect to the divestiture of MSA LLC described in Note 20 to the consolidated financial statements.   |

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2014.

Pittsburgh, Pennsylvania February 16, 2024

# CONSOLIDATED STATEMENTS OF INCOME

|  | Year ended December 31, |           |    |           |    |           |
|--|-------------------------|-----------|----|-----------|----|-----------|
| (In thousands, except per share amounts)   |                         | 2023      |    | 2022      |    | 2021      |
| Net sales  | \$                      | 1,787,647 | \$ | 1,527,953 | \$ | 1,400,182 |
| Cost of products sold  |                         | 935,509   |    | 854,122   |    | 784,834   |
| Gross profit   |                         | 852,138   |    | 673,831   |    | 615,348   |
| Selling, general and administrative  |                         | 396,645   |    | 338,872   |    | 332,862   |
| Research and development   |                         | 67,988    |    | 57,012    |    | 57,793    |
| Restructuring charges (Note 3)   |                         | 9,892     |    | 7,965     |    | 16,433    |
| Currency exchange losses, net  |                         | 17,079    |    | 10,255    |    | 216       |
| Loss on divestiture of MSA LLC (Note 20)   |                         | 129,211   |    | —         |    |           |
| Product liability expense (Note 20)  |                         | 3         |    | 20,590    |    | 185,264   |
| Operating income   |                         | 231,320   |    | 239,137   |    | 22,780    |
| Interest expense   |                         | 46,733    |    | 21,660    |    | 10,758    |
| Other income, net (Note 16)  |                         | (22,101)  |    | (21,056)  |    | (11,582)  |
| Total other expense (income), net  |                         | 24,632    |    | 604       |    | (824)     |
| Income before income taxes   |                         | 206,688   |    | 238,533   |    | 23,604    |
| Provision for income taxes (Note 10)   |                         | 148,105   |    | 58,903    |    | 1,816     |
| Net income   | \$                      | 58,583    | \$ | 179,630   | \$ | 21,788    |
| Net income attributable to noncontrolling interests                                      |                         |           |    | —         |    | (448)     |
| Net income attributable to MSA Safety Incorporated                                       | \$                      | 58,583    | \$ | 179,630   | \$ | 21,340    |
| Earnings per share attributable to MSA Safety Incorporated common shareholders (Note 9): |                         |           |    |           |    |           |
| Basic  | \$                      | 1.49      | \$ | 4.58      | \$ | 0.54      |
| Diluted  | \$                      | 1.48      | \$ | 4.56      | \$ | 0.54      |
| Dividends per common share   | \$                      | 1.87      | \$ | 1.82      | \$ | 1.75      |

The accompanying notes are an integral part of the consolidated financial statements.

# CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

|  | Year ended December 31, |        |    |          |    |          |
|--|-------------------------|--------|----|----------|----|----------|
| (In thousands)   |                         | 2023   |    | 2022     |    | 2021     |
| Net income   | \$                      | 58,583 | \$ | 179,630  | \$ | 21,788   |
| Other comprehensive income (loss), net of tax:                                       |                         |        |    |          |    |          |
| Foreign currency translation adjustments (Note 6)                                    |                         | 21,682 |    | (19,453) |    | (25,354) |
| Pension and post-retirement plan actuarial gains, net of tax (Note 6)                |                         | 7,683  |    | 6,961    |    | 58,256   |
| Unrealized gains (losses) on available-for-sale securities (Note 6)                  |                         | 2      |    | 3        |    | (4)      |
| Reclassifications from accumulated other comprehensive loss into net income (Note 6) |                         | 101    |    | 2,912    |    | 267      |
| Total other comprehensive income (loss), net of tax                                  |                         | 29,468 |    | (9,577)  |    | 33,165   |
| Comprehensive income   |                         | 88,051 |    | 170,053  |    | 54,953   |
| Comprehensive income attributable to noncontrolling interests                        |                         |        |    |          |    | (356)    |
| Comprehensive income attributable to MSA Safety Incorporated                         | \$                      | 88,051 | \$ | 170,053  | \$ | 54,597   |

The accompanying notes are an integral part of the consolidated financial statements.

# CONSOLIDATED BALANCE SHEETS

|  |    | Decem     | • 31, |           |  |  |
|--|----|-----------|-------|-----------|--|--|
| (In thousands, except share amounts)   |    | 2023      |       | 2022      |  |  |
| Assets   |    |           |       |           |  |  |
| Cash and cash equivalents  | \$ | 146,442   | \$    | 162,902   |  |  |
| Trade receivables, less allowance for credit loss of \$7,065 and \$6,769   |    | 294,678   |       | 297,028   |  |  |
| Inventories (Note 4)   |    | 292,604   |       | 338,316   |  |  |
| Investments, short-term (Note 19)  |    | —         |       | 9,905     |  |  |
| Prepaid income taxes   |    | 12,912    |       | 21,700    |  |  |
| Notes receivable, insurance companies (Note 20)  |    | —         |       | 5,931     |  |  |
| Prepaid expenses and other current assets  |    | 39,634    |       | 44,344    |  |  |
| Total current assets   |    | 786,270   |       | 880,126   |  |  |
| Property, plant and equipment, net (Note 5)  |    | 211,877   |       | 207,552   |  |  |
| Operating lease right-of-use assets, net (Note 17)   |    | 53,298    |       | 44,142    |  |  |
| Prepaid pension cost (Note 15)   |    | 172,161   |       | 141,643   |  |  |
| Deferred tax assets (Note 10)  |    | 33,065    |       | 25,490    |  |  |
| Goodwill (Note 13)   |    | 627,534   |       | 620,622   |  |  |
| Intangible assets, net (Note 13)   |    | 266,134   |       | 281,853   |  |  |
| Notes receivable, insurance companies, noncurrent (Note 20)  |    | —         |       | 38,695    |  |  |
| Insurance receivable (Note 20) and other noncurrent assets   |    | 19,811    |       | 136,853   |  |  |
| Total assets   | \$ | 2,170,150 | \$    | 2,376,976 |  |  |
| Liabilities  |    |           |       |           |  |  |
| Notes payable and current portion of long-term debt (Note 12)  | \$ | 26,522    | \$    | 7,387     |  |  |
| Accounts payable   |    | 111,872   |       | 112,532   |  |  |
| Employees' compensation  |    | 73,386    |       | 45,077    |  |  |
| Insurance and product liability (Note 20)  |    | 8,521     |       | 73,898    |  |  |
| Income taxes payable (Note 10)   |    | 19,972    |       | 6,149     |  |  |
| Other current liabilities  |    | 92,545    |       | 100,822   |  |  |
| Total current liabilities  |    | 332,818   |       | 345,865   |  |  |
| Long-term debt, net (Note 12)  |    | 575,170   |       | 565,445   |  |  |
| Pensions and other employee benefits (Note 15)   |    | 143,967   |       | 137,810   |  |  |
| Noncurrent operating lease liabilities (Note 17)   |    | 44,495    |       | 35,345    |  |  |
| Deferred tax liabilities (Note 10)   |    | 102,419   |       | 31,881    |  |  |
| Product liability (Note 20) and other noncurrent liabilities   |    | 4,479     |       | 336,889   |  |  |
| Total liabilities  | \$ | 1,203,348 | \$    | 1,453,235 |  |  |
| Commitments and contingencies (Note 20)  |    |           |       |           |  |  |
| Shareholders' Equity   |    |           |       |           |  |  |
| Preferred stock, 4.5% cumulative, \$50 par value (Note 7)  | \$ | 3,569     | \$    | 3,569     |  |  |
| Common stock, no par value (180,000,000 shares authorized; 62,081,391 shares issued; 39,317,212 and 39,213,064 shares outstanding at December 31, 2023 and 2022, respectively) |    | 312,324   |       | 281,980   |  |  |
| Treasury shares, at cost (Note 7)  |    | (363,284) |       | (361,438) |  |  |
| Accumulated other comprehensive loss (Note 6)  |    | (129,249) |       | (158,717) |  |  |
| Retained earnings  |    | 1,143,442 |       | 1,158,347 |  |  |
| Total shareholders' equity   |    | 966,802   | _     | 923,741   |  |  |
| Total liabilities and shareholders' equity   | \$ | 2,170,150 | \$    | 2,376,976 |  |  |
|  | Ψ  | 2,170,150 | φ     | 2,570,970 |  |  |

The accompanying notes are an integral part of the consolidated financial statements.

# CONSOLIDATED STATEMENTS OF CASH FLOWS

| CONSOLIDATED STATEMENTS OF CASH  | I FLOWS | Year ended December 31, |         |                  |         |            |  |  |  |  |  |
|--|---------|-------------------------|---------|------------------|---------|------------|--|--|--|--|--|
| (In thousands)   |         | 2023                    |         | 2022             | 19      | 2021       |  |  |  |  |  |
| Operating Activities   |         |                         |         |                  |         |            |  |  |  |  |  |
| Net income   | \$      | 58,583                  | \$      | 179,630          | \$      | 21,788     |  |  |  |  |  |
| Depreciation and amortization  |         | 60,773                  |         | 56,317           |         | 50,317     |  |  |  |  |  |
| Tax-effected loss on divestiture of MSA LLC (Note 20)                          |         | 199,578                 |         | _                |         | _          |  |  |  |  |  |
| Stock-based compensation (Note 11)   |         | 30,023                  |         | 19,650           |         | 18,908     |  |  |  |  |  |
| Pension (income) expense (Note 15) and other charges                           |         | (7,915)                 |         | (11,499)         |         | 2,448      |  |  |  |  |  |
| Deferred income tax benefit (Note 10)  |         | (8,514)                 |         | 5,171            |         | (38,850    |  |  |  |  |  |
| Loss on asset write-down and dispositions, net                                 |         | 173                     |         | 6,290            |         | 788        |  |  |  |  |  |
| Pension contributions (Note 15)  |         | (5,217)                 |         | (5,032)          |         | (5,543     |  |  |  |  |  |
| Currency exchange losses, net (Note 6)   |         | 17,079                  |         | 10,255           |         | 210        |  |  |  |  |  |
| Product liability expense (Note 20)  |         | 3                       |         | 20,590           |         | 185,264    |  |  |  |  |  |
| Collections on insurance receivable and notes receivable,                      |         |                         |         |                  |         |            |  |  |  |  |  |
| insurance companies (Note 20)  |         |                         |         | 9,516            |         | 15,443     |  |  |  |  |  |
| Product liability payments (Note 20)   |         | (5,250)                 |         | (36,755)         |         | (39,548    |  |  |  |  |  |
| Contribution on divestiture of MSA LLC (Note 20)                               |         | (341,186)               |         | _                |         | _          |  |  |  |  |  |
| Changes in:  |         |                         |         |                  |         |            |  |  |  |  |  |
| Trade receivables  |         | (7,102)                 |         | (38,587)         |         | 4,374      |  |  |  |  |  |
| Inventories (Note 4)   |         | 51,585                  |         | (67,366)         |         | (17,827    |  |  |  |  |  |
| Accounts payable   |         | (5,452)                 |         | 7,585            |         | 13,299     |  |  |  |  |  |
| Other current assets and liabilities   |         | 53,509                  |         | (1,795)          |         | 823        |  |  |  |  |  |
| Other noncurrent assets and liabilities  |         | 2,187                   |         | 3,485            |         | (12,755    |  |  |  |  |  |
| Cash Flow From Operating Activities  |         | 92,857                  |         | 157,455          |         | 199,145    |  |  |  |  |  |
| Investing Activities   |         |                         |         |                  |         |            |  |  |  |  |  |
| Capital expenditures   |         | (42,764)                |         | (42,553)         |         | (43,837    |  |  |  |  |  |
| Purchase of short-term investments (Note 19)                                   |         |                         |         | (79,542)         |         | (133,913   |  |  |  |  |  |
| Proceeds from maturities of short-term investments (Note 19)                   |         |                         |         | 119,000          |         | 160,000    |  |  |  |  |  |
| Acquisitions, net of cash acquired (Note 14)                                   |         | _                       |         |                  |         | (392,437   |  |  |  |  |  |
| Property disposals and other investing   |         | 2,811                   |         | (1,389)          |         | (5,286     |  |  |  |  |  |
| Cash Flow Used In Investing Activities   |         | (39,953)                |         | (4,484)          | _       | (415,473   |  |  |  |  |  |
| Financing Activities   |         | (5),555)                |         | (1,101)          | _       | (115,175   |  |  |  |  |  |
| Payments on long-term debt (Note 12)   |         | (1,871,102)             | (       | 1,023,000)       |         | (1,346,557 |  |  |  |  |  |
| Proceeds from long-term debt (Note 12)   |         | 1,895,000               |         | 1,010,000        |         | 1,639,733  |  |  |  |  |  |
| Debt issuance costs  |         | (1,138)                 |         | 1,010,000        |         | (2,106     |  |  |  |  |  |
| Cash dividends paid  |         | (73,488)                |         | (71,497)         |         | (68,586    |  |  |  |  |  |
| Acquisition of noncontrolling interests in consolidated subsidiaries (Note 14) |         | (75,400)                |         | (/1,+//)         |         | (13,381    |  |  |  |  |  |
| Distribution to noncontrolling interests (Note 14)                             |         |                         |         |                  |         | (5,632     |  |  |  |  |  |
| Company stock purchases (Note 7)   |         | (3,961)                 |         | (34,394)         |         | (6,171     |  |  |  |  |  |
| Exercise of stock options (Note 7)   |         | 1,473                   |         | 4,650            |         | 5,77(      |  |  |  |  |  |
| Employee stock purchase plan (Note 7)  |         | 963                     |         | 4,050            |         | 855        |  |  |  |  |  |
| Cash Flow (Used In) Provided by Financing Activities                           |         |                         |         |                  |         |            |  |  |  |  |  |
|  |         | (52,253)                |         | (113,350)        |         | 203,925    |  |  |  |  |  |
| Effect of exchange rate changes on cash, cash equivalents and restricted cash  |         | (16,671)                |         | (16,631)         |         | (7,193     |  |  |  |  |  |
| (Decrease) increase in cash, cash equivalents and restricted cash              |         | (16,020)                |         | 22,990           |         | (19,596    |  |  |  |  |  |
| Beginning cash, cash equivalents and restricted cash                           |         | 164,428                 |         | 141,438          |         | 161,034    |  |  |  |  |  |
| Ending cash, cash equivalents and restricted cash                              | \$      | 148,408                 | \$      | 164,428          | \$      | 141,438    |  |  |  |  |  |
| Supplemental cash flow information:  |         |                         |         |                  |         |            |  |  |  |  |  |
| Cash and cash equivalents  | \$      | 146,442                 | \$      | 162,902          | \$      | 140,895    |  |  |  |  |  |
| Restricted cash included in prepaid expenses and other current assets          |         | 1,966                   |         | 1,526            |         | 54.        |  |  |  |  |  |
| Total cash, cash equivalents and restricted cash                               | \$      | 148,408                 | \$      | 164,428          | \$      | 141,438    |  |  |  |  |  |
| Interest paid in cash  | \$      | 47,258                  | \$      | 20,740           | \$      | 9,288      |  |  |  |  |  |
| Income tax paid in cash  | 3<br>\$ | 69,085                  | .թ<br>Տ | 20,740<br>60,491 | ֆ<br>\$ |            |  |  |  |  |  |
| meome tax paiu m cash  | Ð       | 09,083                  | Ф       | 00,491           | Φ       | 45,556     |  |  |  |  |  |

The accompanying notes are an integral part of the consolidated financial statements.

### CONSOLIDATED STATEMENTS OF CHANGES IN RETAINED EARNINGS,

# ACCUMULATED OTHER COMPREHENSIVE LOSS AND NONCONTROLLING INTERESTS

|   |    | Retained                 |    | Accumulated<br>Other<br>Comprehensive |          | controlling |
|---|----|--------------------------|----|---------------------------------------|----------|-------------|
| (In thousands, except per share amounts)<br>Balances at January 1, 2021                                     | ¢  | Earnings<br>\$ 1,103,092 |    | Loss<br>(182,397)                     | 1r<br>\$ | 7,993       |
| Net income  | Ъ  | 21,788                   | \$ | (182,397)                             | \$       | 7,995       |
| Foreign currency translation adjustments  |    | 21,788                   |    | (25,354)                              |          |             |
| Pension and post-retirement plan adjustments, net of \$18,564 tax benefit                                   |    | _                        |    | 58,256                                |          |             |
| Unrecognized net losses on available-for-sale securities (Note 19)  |    |                          |    | (4)                                   |          |             |
| Reclassification of currency translation from accumulated other comprehensive loss into net income (Note 6) |    | _                        |    | 267                                   |          | _           |
| (Income) loss attributable to noncontrolling interests  |    | (448)                    |    | 92                                    |          | 356         |
| Acquisition of noncontrolling interests in consolidated subsidiaries  |    | _                        |    | _                                     |          | (8,349)     |
| Distributions to noncontrolling interests   |    | (5,632)                  |    |                                       |          | _           |
| Common dividends (\$1.75 per share)   |    | (68,545)                 |    |                                       |          |             |
| Preferred dividends (\$0.5625 per share)  |    | (41)                     |    | _                                     |          |             |
| Balances at December 31, 2021   |    | 1,050,214                |    | (149,140)                             |          | _           |
| Net income  |    | 179,630                  |    | _                                     |          | _           |
| Foreign currency translation adjustments  |    | —                        |    | (19,453)                              |          |             |
| Pension and post-retirement plan adjustments, net of \$2,570 tax benefit                                    |    | —                        |    | 6,961                                 |          |             |
| Unrecognized net gains on available-for-sale securities (Note 19)   |    | —                        |    | 3                                     |          |             |
| Reclassification of currency translation from accumulated other comprehensive loss into net income (Note 6) |    | _                        |    | 2,912                                 |          | _           |
| Common dividends (\$1.82 per share)   |    | (71,456)                 |    | —                                     |          |             |
| Preferred dividends (\$0.5625 per share)  |    | (41)                     |    | —                                     |          |             |
| Balances at December 31, 2022   |    | 1,158,347                |    | (158,717)                             |          |             |
| Net income  |    | 58,583                   |    | —                                     |          | —           |
| Foreign currency translation adjustments  |    | _                        |    | 21,682                                |          | _           |
| Pension and post-retirement plan adjustments, net of \$1,706 tax benefit                                    |    | —                        |    | 7,683                                 |          | —           |
| Unrecognized net gains on available-for-sale securities (Note 19)   |    | _                        |    | 2                                     |          | _           |
| Reclassification of currency translation from accumulated other comprehensive loss into net income (Note 6) |    | _                        |    | 101                                   |          | _           |
| Common dividends (\$1.87 per share)   |    | (73,447)                 |    |                                       |          |             |
| Preferred dividends (\$0.5625 per share)  |    | (41)                     |    |                                       |          |             |
| Balances at December 31, 2023   | \$ | 1,143,442                | \$ | (129,249)                             | \$       |             |

The accompanying notes are an integral part of the consolidated financial statements.

### NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

#### Note 1—Significant Accounting Policies

*General Information and Basis of Presentation*—The consolidated financial statements of MSA Safety Incorporated ("MSA" or "the Company") are prepared in conformity with accounting principles generally accepted in the United States of America ("U.S. GAAP") and require management to make certain judgments, estimates, and assumptions. These may affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the consolidated financial statements. They also may affect the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates upon subsequent resolution of identified matters.

*Principles of Consolidation*—The consolidated financial statements include the accounts of the Company and all subsidiaries. Intercompany accounts and transactions are eliminated.

*Noncontrolling Interests*—Noncontrolling interests reflect noncontrolling shareholders' investments in certain consolidated subsidiaries and their proportionate share of the income and accumulated other comprehensive loss of those subsidiaries. During July 2021, the Company purchased the remaining noncontrolling interests in MSA (China) Safety Equipment Co., Ltd. See Note 14—Acquisitions for further detail.

*Currency Translation*—The functional currency of all significant non-U.S. subsidiaries is the local country currency. Assets and liabilities of these operations are translated at year-end exchange rates. Income statement accounts are translated using the average exchange rates for the reporting period. Translation adjustments for these subsidiaries are reported as a component of shareholders' equity and are not included in net income. Foreign currency transaction gains and losses are included in net income for the reporting period.

*Cash Equivalents*—Cash equivalents include temporary deposits with financial institutions and highly liquid investments with original maturities of 90 days or less. Highly liquid investments, consisting of money market funds totaling \$1.9 million at December 31, 2022, were liquidated and included in the cash contributed in the MSA LLC divestiture transaction. Refer to Note 20—Contingencies to the consolidated financial statements in Part II Item 8 of this Form 10-K for further discussion on the divestiture of MSA LLC on January 5, 2023. Prior to the divestiture, these funds were valued at net asset value ("NAV") and were required to price and transact at a NAV per share that fluctuated based upon the pricing of the underlying portfolio of securities.

*Restricted Cash*—Restricted cash, which is designated for use other than current operations, is included in prepaid expenses and other current assets in the Consolidated Balance Sheets. Restricted cash balances were \$2.0 million and \$1.5 million at December 31, 2023 and 2022, respectively. These balances were used to support letter of credit balances.

Inventories—Inventories are stated at the lower of cost and net realizable value. Cost is determined using the first-in, first-out ("FIFO") method. It is the Company's general policy to write-down any inventory balance in excess of the last 24 months of consumption and any inventory identified as obsolete.

*Investment securities*—Prior to the divestiture of MSA LLC as discussed above, the Company held investment securities, primarily consisting of fixed income securities which were classified as available-for-sale. The securities were recorded at fair market value and included in "Investments, short-term" in the accompanying Consolidated Balance Sheets with changes in fair market value recorded in other comprehensive income, net of tax. The purchases and sales of these investments were classified as investing activities in the Consolidated Statements of Cash Flows.

**Property and Depreciation**—Property is recorded at cost. Depreciation is computed primarily using the straight-line method over the estimated useful lives of the assets, generally as follows: buildings 20 to 40 years, and machinery and equipment 3 to 10 years. Expenditures for significant renewals and improvements are capitalized. Ordinary repairs and maintenance are expensed as incurred. Gains or losses on property dispositions are included in other expense (income), net and the cost and related accumulated depreciation are removed from the accounts. Depreciation expense for the years ended December 31, 2023, 2022 and 2021 was \$41.8 million, \$36.7 million and \$33.0 million, respectively. Properties, plant, and equipment are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of such assets or asset groups may not be recoverable.

*Software Development Costs*—Software development costs are costs incurred to create, enhance and deploy the Company's broad range of wireless technology and cloud-based computing safety services. Software development costs, other than software development costs qualifying for capitalization, are expensed as incurred. Costs of computer software developed or obtained for internal use that are incurred in the preliminary project and post implementation stages are expensed as incurred. Certain costs incurred during the application and development stage, which primarily include compensation and related expenses, are capitalized. Additionally, costs of upgrades and enhancements are capitalized when it is probable that the upgrades and enhancements will result in added functionality. During 2023, 2022 and 2021, respectively, there was approximately \$12.1 million, \$8.7 million and \$8.1 million of software development costs capitalized. The Company has unamortized computer software development costs of \$18.2 million and \$16.5 million as of December 31, 2023 and 2022, respectively, included in property, plant and equipment, net.

Capitalized costs are amortized through cost of products sold using the straight-line method over the estimated useful life, which is normally three years, beginning in the period in which the software is ready for its intended use or when the upgrade or enhancement is deployed. Software development amortization expense was \$10.4 million, \$7.9 million and \$4.9 million during the years ended December 31, 2023, 2022 and 2021, respectively.

Lessee Arrangements—At the inception of our contracts, we determine if the contract is or contains a lease. A contract is or contains a lease if it conveys the right to control the use of an identified asset for a period of time in exchange for consideration. We have elected to not separate the lease and non-lease components within our lease contracts. Right-of-use assets and operating lease liabilities are recognized based on the present value of lease payments over the lease term at commencement. We use our incremental borrowing rate ("IBR") at the recognition date in determining the present value of future payments for leases that do not have a readily determinable implicit rate. Our IBR reflects a fully secured rate based on our credit rating, taking into consideration the repayment timing of the lease and any impacts due to the economic environment in which the lease operates.

Our lease payments are largely fixed. Variable lease payments that depend on an index or a rate are included in the lease payments and are measured using the prevailing index or rate at the measurement date, with differences between the calculated lease payment and the actual lease payment being expensed in the period of the change. Other variable lease payments, including utilities, consumption and common area maintenance as well as repairs, maintenance and mileage overages on vehicles, are expensed during the period incurred. A majority of our real estate leases include options to extend the lease and options to early terminate the lease. Leases with an early termination option generally involve a termination payment. If we are reasonably certain to exercise an option to extend a lease, the extension period is included as part of the right-of-use asset and the lease liability. Some of our leases contain residual value guarantees. These are guarantees made to the lessor that the value of an underlying asset returned to the lessor at the end of a lease will be at least a specified amount. Our leases do not contain restrictions or covenants that restrict us from incurring other financial obligations. For our leases, we have elected to not apply the recognition requirements to leases of less than twelve months. These leases are expensed on a straight-line basis and are not included within the Company's operating lease asset or liability.

Lease right-of-use assets and liabilities are recognized based on the present value of the fixed future lease payments over the lease term. Operating leases are included in Operating lease right-of-use assets, net, Other current liabilities, and Noncurrent operating lease liabilities in our Consolidated Balance Sheets. Finance leases are included in Property, plant and equipment, net, Other current liabilities, and Product liability and other noncurrent liabilities in our Consolidated Balance Sheets. Lease expense for all operating leases is classified in Cost of products sold or Selling, general and administrative expense in the Consolidated Statements of Income. For finance leases, the amortization of the right-of-use asset is included in depreciation and amortization, and the interest is included in interest expense.

Lessor Arrangements—The Company derives a portion of its revenue from various leasing arrangements where the Company is the lessor, primarily fire service contracts entered into by Bristol which was acquired in January 2021 (Note 14). Such arrangements provide for monthly payments covering equipment provided, maintenance and interest. These arrangements meet the criteria to be accounted for as sales-type leases under Accounting Standards Codification ("ASC") 842 and contain both lease and non-lease components. For a component to be separate, the customer would be able to benefit from the right of use of the component separately or with other resources readily available to the customer and the right of the use is not highly dependent or highly interrelated with the other rights to use the other underlying assets or components.

Revenue from equipment provided is considered a lease component and recognized with point in time revenue recognition upon lease commencement. Upon the recognition of such revenue, an asset is established for the investment in sales-type leases. Maintenance revenue, which is considered a non-lease component, and interest is recognized monthly over the lease term. As of December 31, 2023, the Company had remaining maintenance performance obligations of approximately \$32.9 million which are expected to be recognized to revenue over approximately 4 years.

Lease revenues and interest earned by the Company, included in the Consolidated Statements of Income, were not material to any of the years ended December 31, 2023, 2022 and 2021.

Net investment in sales-type leases of \$6.3 million and \$14.6 million were included in Prepaid expenses and other current assets and Insurance receivable and other noncurrent assets, respectively, in the Consolidated Balance Sheets as of December 31, 2023. The portion in Insurance receivable and other noncurrent assets at December 31, 2023 is expected to be collected within six years.

*Goodwill and Other Intangible Assets*—Intangible assets with a finite useful life are amortized on a straight-line basis over their useful lives. Indefinite lived intangible assets are assessed for possible impairment annually on October 1st or whenever circumstances change such that the recorded value of the asset may not be recoverable. We performed a quantitative assessment of the indefinite lived trade name intangible asset as outlined in ASC 350 by comparing the estimated fair value of the trade name intangible asset to its carrying value. We estimate the fair value using the relief from royalty income approach. A number of assumptions and estimates are involved in the application of the relief from royalty model, including sales volumes and prices, royalty rates and tax rates. Forecasts are based on sales generated by the underlying trade name assets and are generally based on approved business unit operating plans for the early years and historical relationships in later years. Based on these assessments, no impairments were identified during the years ended December 31, 2023, 2022 or 2021.

All goodwill is assigned to and evaluated for impairment at the reporting unit level, which is defined as an operating segment or one level below an operating segment. Goodwill is not amortized, but evaluated for impairment at least annually or whenever events or changes in circumstance indicate it is more likely than not that the fair value of a reporting unit is less than its carrying amount. The Company may perform either a qualitative assessment of potential impairment or proceed directly to a quantitative assessment of potential impairment. If the Company chooses not to perform a qualitative assessment, or if it chooses to perform a qualitative assessment but is unable to qualitatively conclude that no impairment has occurred, then the Company will perform a quantitative assessment. A quantitative test for goodwill impairment is performed by determining the fair value of the related reporting units.

The Company estimates the fair value of the reporting unit with which the goodwill is associated and compares it to the carrying value. If the estimated fair value of a reporting unit is less than its carrying value, an impairment charge is recognized for the excess of the reporting unit's carrying value over its fair value. Fair value is measured based on the discounted cash flow method and relative market-based approaches. In 2023, we performed a quantitative test at October 1, 2023. We estimate reporting unit fair value using a weighted average of fair values determined by discounted cash flow ("DCF") and market approach methodologies, as we believe both are important indicators of fair value. A number of assumptions and estimates are involved in the application of the DCF model, including sales volumes and prices, costs to produce, tax rates, capital spending, discount rates, and working capital changes. Cash flow forecasts are generally based on approved reporting unit operating plans for the early years and historical relationships in later years. The market approach methodology measures value through an analysis of peer companies. The analysis entails measuring the multiples of earnings before interest, taxes, depreciation and amortization ("EBITDA") at which peer companies are trading. Management performed its evaluation and determined the fair value of each reporting unit is greater than the carrying amount and, accordingly, the Company has not recorded any impairment charges related to goodwill.

There has been no impairment of our goodwill during the years ended December 31, 2023, 2022 or 2021.

*Revenue Recognition*—We account for revenue in accordance with ASC Topic 606, *Revenue from Contracts with Customers*. Revenue from the sale of products is recognized when there is persuasive evidence of an arrangement and control passes to the customer, which generally occurs either when product is shipped to the customer or, in the case of most U.S. distributor customers, when product is delivered to the distributor's delivery site. We establish our shipping terms according to local practice and market characteristics. We do not ship product unless we have an order or other documentation authorizing shipment to our customers. Our payment terms vary by the type and location of our customer and the products offered. The term between invoicing and when payment is due is not significant. Revenue is measured as the amount of consideration we expect to receive in exchange for transferring goods or providing services. Amounts billed and due from our customers are classified as receivables on the Consolidated Balance Sheets. We make appropriate provisions for credit losses which have historically been insignificant in relation to our net sales. Certain contracts with customers, primarily distributor customers, have an element of variable consideration that is estimated when revenue is recognized under the contract to the extent that it is material to the individual contract. Variable consideration includes volume incentive rebates, performance guarantees, price concessions and returns. Rebates are based on achieving a certain level of purchases and other performance criteria that are documented in established distributor programs. These rebates are estimated based on projected sales to the customer and accrued as a reduction of net sales as they are earned by the customer. The rebate accrual is reviewed monthly and adjustments are made as the estimate of projected sales changes. Product returns, including an adjustment for restocking fees if it is material, are estimated based on historical return experience and rev

Depending on the terms of the arrangement, we may defer revenue for which we have a future obligation, including leases where the Company is the lessor, connected safety subscriptions, training, extended warranty, software subscriptions, maintenance and technical services, until such time that the obligation has been satisfied. We use an observable price, or a cost plus margin approach when one is not available, to determine the stand-alone selling price for separate performance obligations. We have elected to recognize the cost for shipping and handling as an expense when control of the product has passed to the customer. These costs are included within the Cost of products sold line on the Consolidated Statements of Income. Amounts billed to customers for shipping and handling are included in net sales.

**Product Warranties**—Estimated expenses related to product warranties and additional service actions are charged to Cost of products sold in the period in which the related revenue is recognized or when significant product quality issues are identified.

Research and Development-Research and development costs are expensed as incurred.

Income Taxes—Deferred income taxes are recognized for temporary differences between financial and tax reporting. Deferred tax assets and liabilities are measured using enacted tax rates in effect for the year in which those temporary differences are expected to be recovered or settled. If it is more likely than not that some portion or all of a deferred tax asset will not be realized, a valuation allowance is recognized. We record tax benefits related to uncertain tax positions taken or expected to be taken on a tax return when such benefits meet a more likely than not threshold. We recognize interest related to unrecognized tax benefits in interest expense and penalties in operating expenses. Deferred taxes are booked for available cash in excess of working capital for non-U.S. subsidiaries as these earnings are not considered to be permanently reinvested.

*Stock-Based Compensation*—We recognize expense for employee and non-employee director stock-based compensation based on the grant date fair value of the awards. Except for retirement-eligible participants, for whom there is no requisite service period, this expense is recognized ratably over the requisite service periods following the date of grant. For retirement-eligible participants, this expense is recognized over an accelerated period of at least one year.

**Derivative Instruments**—We may use derivative instruments from time to time to minimize the effects of changes in currency exchange rates. We do not enter into derivative transactions for speculative purposes and do not hold derivative instruments for trading purposes. Changes in the fair value of derivative instruments designated as fair value hedges are recorded in the balance sheet as adjustments to the underlying hedged asset or liability. Changes in the fair value of derivative instruments that do not qualify for hedge accounting treatment are recognized in the Consolidated Statements of Income and Consolidated Statements of Cash Flows as Currency exchange losses, net in the current period.

*Commitments and Contingencies*—For asserted claims and assessments, liabilities are recorded when a loss is deemed to be probable and the amount of the loss is reasonably estimable. Management assesses the probability of an unfavorable outcome with respect to asserted claims or assessments based on many factors such as the nature of the matter, available defenses and case strategy, progress of the matter, views and opinions of legal counsel and other advisors, applicability and success of appeals processes, and the outcome of similar historical matters, among others. Once an unfavorable outcome is assessed to be probable, management evaluates estimates of the potential loss, and the most reasonable loss estimate is recorded (or, if the estimate of the loss is a range, and no amount within the range is considered to be a better estimate than any other amount, the minimum amount in the range is recorded). If a material loss is deemed to be reasonably possible but not probable, the matter is disclosed and no liability is recorded.

With respect to unasserted claims or assessments, management first determines whether it is probable that a claim or assessment may be asserted and then, if so, the degree of probability of an unfavorable outcome. If an unfavorable outcome is probable, management assesses whether the amount of potential loss can be reasonably estimated and, if so, accrues the most reasonable estimate of the loss (or, if the estimate of the loss is a range, and no amount within the range is considered to be a better estimate than any other amount, the minimum amount in the range is recorded). If an unfavorable outcome is reasonably possible but less than probable, or the amount of loss cannot be reasonably estimated, then the matter is disclosed and no liability is recorded. Legal matters are reviewed on a continuous basis to determine if there has been a change in management's judgment regarding the likelihood and/or estimate of a potential loss. Please refer to Note 20 — Contingencies for further details on product liability related matters.

*Concentration of credit and business risks*—We sell to customers in a broad mix of industries and are exposed to credit risk in the event of nonpayment. Changes in these industries or other developments may significantly affect our financial performance and management's estimates. We mitigate our exposure to credit risk by performing ongoing credit evaluations and, when deemed necessary, requiring letters of credit, credit insurance, prepayments, guarantees or other collateral. No individual customer represented more than 10% of our sales or receivables as of December 31, 2023 or 2022 or for any of the three years ended December 31, 2023.



### Note 2—Cash and Cash Equivalents

Several of the Company's affiliates participate in a notional cash pooling arrangement to manage global liquidity requirements. As part of a master netting arrangement, the participants combine their cash balances in pooling accounts at the same financial institution with the ability to offset bank overdrafts of one participant against positive cash account balances held by another participant. Under the terms of the master netting arrangement, the financial institution has the right, ability and intent to offset a positive balance in one account against an overdrawn amount in another account. Amounts in each of the accounts are unencumbered and unrestricted with respect to use. As such, the net cash balance related to this pooling arrangement is included in Cash and cash equivalents in the Consolidated Balance Sheets.

The Company's net cash pool position consisted of the following:

| (In thousands)             | Dece | ember 31, 2023 |
|----------------------------|------|----------------|
| Gross cash pool position   | \$   | 91,249         |
| Less: cash pool borrowings |      | (88,509)       |
| Net cash pool position     | \$   | 2,740          |

### Note 3—Restructuring Charges

During the years ended December 31, 2023, 2022 and 2021, we recorded restructuring charges of \$9.9 million, \$8.0 million and \$16.4 million, respectively. These charges were primarily related to our ongoing initiatives to adjust our cost structure and improve productivity.

Americas segment restructuring charges of \$3.1 million during the year ended December 31, 2023, were related to manufacturing footprint optimization activities. International segment restructuring charges of \$4.7 million during the year ended December 31, 2023, were related to ongoing initiatives to drive profitable growth and improve productivity. Corporate segment restructuring charges of \$2.1 million during the year ended December 31, 2023, were related to footprint optimization activities and management restructuring.

A total of 152 positions were eliminated in 2023. There were 62 positions eliminated in the Americas segment, 75 in the International segment, and 15 in the Corporate segment.

Americas segment restructuring charges of \$2.3 million during the year ended December 31, 2022, were related to various optimization activities. International segment restructuring charges of \$5.1 million during the year ended December 31, 2022, were primarily related to the implementation of our new European Shared Service Center in Warsaw, Poland. Corporate segment restructuring charges of \$0.6 million during the year ended December 31, 2022, were primarily related to programs to realign the organization and adjust our operations in response to current business conditions.

A total of 151 positions were eliminated in 2022. There were 24 positions eliminated in the Americas segment, 123 in the International segment, and 4 in the Corporate segment.

Americas segment restructuring charges of \$4.6 million during the year ended December 31, 2021, were primarily related to integration related activities and costs associated with our global Fixed Gas & Flame Detection manufacturing footprint optimization as well as programs to adjust our operations in response to current business conditions. International segment restructuring charges of \$11.2 million during the year ended December 31, 2021, were primarily related to our initiatives to drive profitable growth and right size our operations. Corporate segment restructuring charges of \$0.6 million during the year ended December 31, 2021, were primarily related to programs to adjust our operations in response to current business conditions.

A total of 143 positions were eliminated in 2021. There were 66 positions eliminated in the Americas segment, 71 in the International segment, and 6 in the Corporate segment.



Activity and reserve balances for restructuring charges by segment were as follows:

| (in millions)                              | Americas |       |    | International Corporate |    |       | Total |        |  |
|--|----------|-------|----|-------------------------|----|-------|-------|--------|--|
| Reserve balances at January 1, 2021        | \$       | 2.8   | \$ | 19.3                    | \$ | 0.4   | \$    | 22.5   |  |
| Restructuring charges                      |          | 4.6   |    | 11.2                    |    | 0.6   |       | 16.4   |  |
| Currency translation and other adjustments |          | (0.1) |    | (0.2)                   |    |       |       | (0.3)  |  |
| Cash payments / utilization                |          | (4.0) |    | (12.9)                  |    | (0.7) |       | (17.6) |  |
| Reserve balances at December 31, 2021      | \$       | 3.3   | \$ | 17.4                    | \$ | 0.3   | \$    | 21.0   |  |
| Restructuring charges                      |          | 2.3   |    | 5.1                     |    | 0.6   |       | 8.0    |  |
| Currency translation and other adjustments |          | 0.1   |    | (1.3)                   |    |       |       | (1.2)  |  |
| Cash payments / utilization                |          | (4.0) |    | (8.4)                   |    | (0.4) |       | (12.8) |  |
| Reserve balances at December 31, 2022      | \$       | 1.7   | \$ | 12.8                    | \$ | 0.5   | \$    | 15.0   |  |
| Restructuring charges                      |          | 3.1   |    | 4.7                     |    | 2.1   |       | 9.9    |  |
| Currency translation and other adjustments |          | (0.1) |    | 0.1                     |    |       |       |        |  |
| Cash payments / utilization                |          | (3.9) |    | (8.6)                   |    | (2.6) |       | (15.1) |  |
| Reserve balances at December 31, 2023      | \$       | 0.8   | \$ | 9.0                     | \$ | _     | \$    | 9.8    |  |

Restructuring reserves at December 31, 2023 and 2022 are included in Other current liabilities in our Consolidated Balance Sheets.

# Note 4—Inventories

The following table sets forth the components of inventory:

|                            |     | December 31, |         |  |  |  |
|----------------------------|-----|--------------|---------|--|--|--|
| (In thousands)             | 202 | 23           | 2022    |  |  |  |
| Finished products          | \$  | 88,687 \$    | 97,142  |  |  |  |
| Work in process            |     | 15,378       | 16,360  |  |  |  |
| Raw materials and supplies |     | 188,539      | 224,814 |  |  |  |
| Total inventories          | \$  | 292,604 \$   | 338,316 |  |  |  |

# Note 5—Property, Plant, and Equipment

The following table sets forth the components of property, plant and equipment:

|                                    | December 31, |           |    |           |  |  |
|------------------------------------|--------------|-----------|----|-----------|--|--|
| (In thousands)                     |              | 2023      |    | 2022      |  |  |
| Land                               | \$           | 4,332     | \$ | 4,884     |  |  |
| Buildings                          |              | 141,027   |    | 138,618   |  |  |
| Machinery and equipment            |              | 498,148   |    | 466,394   |  |  |
| Construction in progress           |              | 24,404    |    | 22,097    |  |  |
| Total                              |              | 667,911   |    | 631,993   |  |  |
| Less accumulated depreciation      |              | (456,034) |    | (424,441) |  |  |
| Property, plant and equipment, net | \$           | 211,877   | \$ | 207,552   |  |  |

# Note 6—Reclassifications Out of Accumulated Other Comprehensive Loss

|          | MSA Safety Incorporated |  |  |  | Noncontrolling Intere                                  |  |  |  |  | s  |  |
|----------|-------------------------|--|--|--|--|--|--|--|--|--|--|
|          | 2023                    |  | 2022   |  | 2021   |  | 2023   |  | 2022   |  | 2021   |
|          |                         | _  |  |  |  |  |  |  |  |  |  |
| \$       | (50,335)                | \$   | (57,296)   | \$   | (115,552)  | \$   | —  | \$   |  | \$   | —  |
|          | 8,654                   |  | (2,862)  |  | 54,384   |  |  |  |  |  |  |
|          | (1,514)                 |  | 703  |  | (12,804)   |  |  |  |  |  |  |
|          | 7,140                   |  | (2,159)  |  | 41,580   |  | _  |  | _  |  |  |
|          |                         |  |  |  |  |  |  |  |  |  |  |
|          | (84)                    |  | (199)  |  | (95)   |  |  |  | —  |  | —  |
|          | 812                     |  | 12,592   |  | 22,531   |  | —  |  |  |  | —  |
|          | (185)                   |  | (3,273)  |  | (5,760)  |  |  |  |  |  | —  |
|          | 543                     |  | 9,120  |  | 16,676   |  | _  |  | _  |  | _  |
| \$       | 7,683                   | \$   | 6,961  | \$   | 58,256   | \$   |  | \$   |  | \$   |  |
| \$       | (42,652)                | \$   | (50,335)   | \$   | (57,296)   | \$   |  | \$   |  | \$   | _  |
|          | <u> </u>                |  |  |  |  |  |  |  |  |  |  |
| \$       | (2)                     | \$   | (5)  | \$   | (1)  | \$   |  | \$   |  | \$   | _  |
|          | 2                       |  | 3  |  | (4)  |  |  |  | —  |  | —  |
| \$       | _                       | \$   | (2)  | \$   | (5)  | \$   | _  | \$   | _  | \$   | _  |
|          |                         |  |  |  |  |  |  |  |  | -  |  |
| \$       | (108,380)               | \$   | (91,839)   | \$   | (66,844)   | \$   |  | \$   |  | \$   | 372  |
| 0        | 101                     |  | 2,912  |  | 267  |  | _  |  | _  |  |  |
|          | _                       |  | _  |  | —  |  | —  |  | —  |  | (280)  |
|          | 21,682                  |  | (19,453)   |  | (25,262)   |  |  |  |  |  | (92)   |
| \$       | (86,597)                | \$   | (108,380)  | \$   | (91,839)   | \$   | _  | \$   |  | \$   |  |
| <b>s</b> | t                       | $\begin{array}{c c} \hline 2023 \\ \hline \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $ | $\begin{array}{c c} \hline 2023 \\ \hline \\ & \hline \\ \\ \\ & \hline \\ \\ \\ \hline \\ \\ \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \\ \hline \\ \hline \hline \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \hline \hline \\ \hline \hline \hline \hline \hline \\ \hline \hline \hline \hline \hline \hline \hline \hline \\ \hline \hline$ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |

<sup>(a)</sup>Reclassifications out of accumulated other comprehensive loss and into net income are included in the computation of net periodic pension and other post-retirement benefit costs (refer to Note 15—Pensions and Other Post-retirement Benefits).

<sup>(b)</sup>Reclassifications out of accumulated other comprehensive loss and into net income relate primarily to the approval of our plan to close a foreign subsidiary. The reclassifications are included in Currency exchange losses, net, within the Consolidated Statements of Income.

### Note 7—Capital Stock

**Preferred Stock**—The Company has authorized 100,000 shares of \$50 par value 4.5% cumulative preferred nonvoting stock which is callable at \$52.50. There were 71,340 shares issued and 52,998 shares held in treasury at both December 31, 2023 and 2022. The Treasury shares at cost line of the Consolidated Balance Sheets includes \$1.8 million related to preferred stock. There were no shares of preferred stock purchased and subsequently held in treasury during the years ended December 31, 2023, or 2022. The Company has also authorized 1,000,000 shares of \$10 par value second cumulative preferred voting stock. No shares have been issued as of December 31, 2023 or 2022.

**Common Stock**—The Company has authorized 180,000,000 shares of no par value common stock. There were 62,081,391 shares issued as of December 31, 2023 and December 31, 2022. There were 39,317,212 and 39,213,064 shares outstanding at December 31, 2023 and 2022, respectively.

**Treasury Shares**—The Company's stock repurchase program authorizes up to \$100.0 million to repurchase MSA common stock in the open market and in private transactions. The share repurchase program has no expiration date. The maximum number of shares that may be purchased is calculated based on the dollars remaining under the program and the respective month-end closing share price. Under the program, there were no shares repurchased during 2023, 251,408 shares repurchased during 2022 and no shares repurchased during 2021. We do not have any other share repurchase programs. There were 22,764,179 and 22,868,327 Treasury shares at December 31, 2023 and 2022, respectively.

The Company issues Treasury shares for all stock based benefit plans. Shares are issued from Treasury at the average Treasury share cost on the date of the transaction. There were 132,797 and 219,214 Treasury shares issued for these purposes during the years ended December 31, 2023 and 2022, respectively.

Common stock activity is summarized as follows:

|  | Shares     | <b>i</b>     | Dollars             | 1                |
|--|------------|--------------|---------------------|------------------|
| (Dollars in thousands)                 | Issued     | Treasury     | <br>Common<br>Stock | Treasury<br>Cost |
| Balance at January 1, 2021             | 62,081,391 | (23,013,489) | \$<br>242,693       | 6 (326,156)      |
| Restricted stock awards                | _          | 53,934       | (762)               | 762              |
| Restricted stock expense               | —          | _            | 6,562               |                  |
| Restricted stock forfeitures           | _          | _            | (765)               | _                |
| Stock options exercised                | _          | 122,119      | 4,003               | 1,767            |
| Stock option expense                   |            | _            | 90                  |                  |
| Stock option forfeitures               | —          | _            | (9)                 |                  |
| Performance stock issued               | —          | 64,543       | (939)               | 939              |
| Performance stock expense              | —          | _            | 13,227              |                  |
| Employee stock purchase plan           | —          | 5,730        | 772                 | 83               |
| Treasury shares purchased              | —          | (37,710)     | —                   | (6,171)          |
| Acquisition of noncontrolling interest | —          | —            | (4,751)             | —                |
| Balances December 31, 2021             | 62,081,391 | (22,804,873) | \$<br>260,121       | 5 (328,776)      |
| Restricted stock awards                | —          | 52,810       | (711)               | 711              |
| Restricted stock expense               | —          | —            | 7,715               | —                |
| Restricted stock forfeitures           | _          | _            | (1,227)             |                  |
| Stock options exercised                | —          | 103,545      | 3,021               | 1,629            |
| Stock option expense                   | _          | _            | 49                  |                  |
| Performance stock issued               | —          | 55,447       | (880)               | 880              |
| Performance stock expense              | _          | _            | 15,843              |                  |
| Performance stock forfeitures          | —          | —            | (2,730)             | —                |
| Employee stock purchase plan           | _          | 7,412        | 779                 | 112              |
| Treasury shares purchased              | —          | (31,260)     | —                   | (4,021)          |
| Share repurchase program               |            | (251,408)    | <br>                | (30,373)         |
| Balances December 31, 2022             | 62,081,391 | (22,868,327) | \$<br>281,980 \$    | 6 (359,838)      |
| Restricted stock awards                | —          | 40,856       | (643)               | 643              |
| Restricted stock expense               | —          | —            | 9,476               |                  |
| Restricted stock forfeitures           | —          | —            | (1,414)             |                  |
| Stock options exercised                | —          | 31,394       | 970                 | 503              |
| Stock option expense                   | —          |              | 11                  |                  |
| Stock option forfeitures               | —          | —            | (11)                |                  |
| Performance stock issued               | —          | 53,407       | (855)               | 855              |
| Performance stock expense              | —          |              | 23,546              | —                |
| Performance stock forfeitures          | _          | _            | (1,585)             |                  |
| Employee stock purchase plan           | _          | 7,140        | 849                 | 114              |
| Treasury shares purchased              |            | (28,649)     | <br>                | (3,961)          |
| Balances December 31, 2023             | 62,081,391 | (22,764,179) | \$<br>312,324 \$    | 6 (361,684)      |

### Note 8—Segment Information

We are organized into four geographical operating segments that are based on management responsibilities: Northern North America, Latin America, Europe, Middle East & Africa, and Asia Pacific. The operating segments have been aggregated (based on economic similarities, the nature of their products, end-user markets and methods of distribution) into three reportable segments: Americas, International, and Corporate.

The Americas segment is comprised of our operations in Northern North America and Latin America geographies. The International segment is comprised of our operations in all geographies outside of the Americas. Certain global expenses are allocated to each segment in a manner consistent with where the benefits from the expenses are derived.

The Company's sales are allocated to each segment based primarily on the country destination of the end-customer.

Adjusted operating income (loss), adjusted operating margin, adjusted earnings before interest, taxes, depreciation and amortization (EBITDA) and adjusted EBITDA margin are the measures used by the chief operating decision maker to evaluate segment performance and allocate resources. Adjusted operating income (loss) is defined as operating income excluding restructuring charges, currency exchange gains (losses), product liability expense, loss on divestiture of Mine Safety Appliances Company, LLC ("MSA LLC"), transaction costs and acquisition-related amortization. Adjusted operating margin is defined as adjusted operating income (loss) divided by segment net sales to external customers. Adjusted EBITDA is defined as adjusted operating income (loss) plus depreciation and amortization. Adjusted EBITDA margin is defined as adjusted EBITDA divided by segment net sales to external customers.

The accounting principles applied at the operating segment level in determining operating income (loss) are generally the same as those applied at the consolidated financial statement level. Sales and transfers between operating segments are accounted for at market-based transaction prices and are eliminated in consolidation.

Reportable segment information is presented in the following table:

| (In thousands)<br>2023                                    |            | Americas  |        | International |     | Corporate  | ŀ  | Reconciling<br>Items <sup>(a)</sup> | (  | Consolidated<br>Totals |
|---|------------|-----------|--------|---------------|-----|------------|----|-------------------------------------|----|------------------------|
| Net sales to external customers                           | \$         | 1,235,594 | \$     | 552,053       | \$  | _          | \$ | _                                   | \$ | 1,787,647              |
| Operating income  |            | 3 - 3     |        |               |     |            | •  |                                     | •  | 231,320                |
| Restructuring charges (Note 3)                            |            |           |        |               |     |            |    |                                     |    | 9,892                  |
| Currency exchange losses, net                             |            |           |        |               |     |            |    |                                     |    | 17,079                 |
| Loss on divestiture of MSA LLC (Note 20)                  |            |           |        |               |     |            |    |                                     |    | 129,211                |
| Product liability expense (Note 20)                       |            |           |        |               |     |            |    |                                     |    | 3                      |
| Amortization of acquisition-related intangible assets     |            |           |        |               |     |            |    |                                     |    | 9,246                  |
| Transaction costs <sup>(b)</sup>                          |            |           |        |               |     |            |    |                                     |    | 965                    |
| Adjusted operating income (loss)                          |            | 359,617   |        | 89,699        |     | (51,600)   |    |                                     |    | 397,716                |
| Adjusted operating margin %                               |            | 29.1 %    | ó      | 16.2 %        |     | (- , )     |    |                                     |    |                        |
| Depreciation and amortization                             |            | 36,979    |        | 13,705        |     | 843        |    |                                     |    | 51,527                 |
| Adjusted EBITDA   |            | 396,596   |        | 103,404       |     | (50,757)   |    |                                     |    | 449,243                |
| Adjusted EBITDA margin %                                  |            | 32.1 %    | ⁄<br>0 | 18.7 %        |     | (00,000)   |    |                                     |    | ,                      |
| Noncash items:  |            | 02.1 /    | •      | 10.770        |     |            |    |                                     |    |                        |
| Pension (income) expense                                  | \$         | (11,873)  | \$     | 3,958         |     |            |    |                                     | \$ | (7,915)                |
| Total Assets  | Ψ          | 1,433,244 | Ψ      | 734,856       |     | 320        |    | 1,730                               | Ψ  | 2,170,150              |
| Capital expenditures                                      |            | 28,011    |        | 13,341        |     | 1,412      |    | 1,750                               |    | 42,764                 |
| 2022  |            | 20,011    |        | 15,511        |     | 1,112      |    |                                     |    | 12,701                 |
| Net sales to external customers                           | \$         | 1,043,238 | \$     | 484,715       | \$  | _          | \$ | _                                   | \$ | 1,527,953              |
| Operating income  | +          | -,,       | -      | ,,            | *   |            | +  |                                     | +  | 239,137                |
| Restructuring charges (Note 3)                            |            |           |        |               |     |            |    |                                     |    | 7,965                  |
| Currency exchange losses, net                             |            |           |        |               |     |            |    |                                     |    | 10,255                 |
| Product liability expense (Note 20)                       |            |           |        |               |     |            |    |                                     |    | 20,590                 |
| Amortization of acquisition-related intangible assets     |            |           |        |               |     |            |    |                                     |    | 9,207                  |
| Transaction costs <sup>(b)</sup>                          |            |           |        |               |     |            |    |                                     |    | 3,233                  |
| Adjusted operating income (loss)                          |            | 267,392   |        | 60,923        |     | (37,928)   |    | _                                   |    | 290,387                |
| Adjusted operating margin %                               |            | 25.6 %    | /<br>0 | 12.6 %        |     | (37,720)   |    |                                     |    | 290,507                |
| Depreciation and amortization                             |            | 34,334    | v      | 12,256        |     | 520        |    | _                                   |    | 47,110                 |
| Adjusted EBITDA   |            | 301,726   |        | 73,179        |     | (37,408)   |    | _                                   |    | 337,497                |
| Adjusted EBITDA margin %                                  |            | 28.9 %    | 6      | 15.1 %        |     | (37,100)   |    |                                     |    | 557,157                |
| Noncash items:  |            | 20.9      | 0      | 10.1 /0       |     |            |    |                                     |    |                        |
| Pension (income) expense                                  | \$         | (18,368)  | \$     | 6,869         | \$  | _          | \$ |                                     | \$ | (11,499)               |
| Total Assets  | Ψ          | 1,660,776 | Ψ      | 703,444       | Ψ   | 11,673     | Ψ  | 1,083                               | Ψ  | 2,376,976              |
| Capital expenditures                                      |            | 33,324    |        | 9,229         |     |            |    | 1,005                               |    | 42,553                 |
| 2021  |            | 55,521    |        | ,22)          |     |            |    |                                     |    | 12,000                 |
| Net sales to external customers                           | \$         | 908,068   | \$     | 492,114       | \$  |            | \$ |                                     | \$ | 1,400,182              |
| Operating income  | +          | ,         | -      |               | *   |            | +  |                                     | -  | 22,780                 |
| Restructuring charges (Note 3)                            |            |           |        |               |     |            |    |                                     |    | 16,433                 |
| Currency exchange losses, net                             |            |           |        |               |     |            |    |                                     |    | 216                    |
| Product liability expense (Note 20)                       |            |           |        |               |     |            |    |                                     |    | 185,264                |
| Amortization of acquisition-related intangible assets     |            |           |        |               |     |            |    |                                     |    | 8,764                  |
| Transaction costs <sup>(b)</sup>                          |            |           |        |               |     |            |    |                                     |    | 7,120                  |
| Adjusted operating income (loss)                          |            | 202,496   |        | 73,279        |     | (35,198)   |    |                                     |    | 240,577                |
| Adjusted operating margin %                               |            | 22.3 %    | ó      | 14.9 %        |     | (,)        |    |                                     |    | - ,                    |
| Depreciation and amortization                             |            | 31,236    |        | 13,718        |     | 463        |    | _                                   |    | 45,417                 |
| Adjusted EBITDA   |            | 233,732   |        | 86,997        |     | (34,735)   |    |                                     |    | 285,994                |
| Adjusted EBITDA margin %                                  |            | 25.7 %    | /<br>0 | 17.7 %        |     | (2 .,, 20) |    |                                     |    |                        |
| Noncash items:  |            |           |        | 1,.,,,0       |     |            |    |                                     |    |                        |
| Pension (income) expense                                  | \$         | (2,916)   | \$     | 5,790         | \$  | _          | \$ |                                     | \$ | 2,874                  |
| Total Assets  | Ψ          | 1,661,619 | Ψ      | 720,257       | Ψ   | 13,034     | Ψ  | 1,486                               | Ψ  | 2,396,396              |
| Capital expenditures                                      |            | 25,148    |        | 11,408        |     | 7,281      |    | 1,100                               |    | 43,837                 |
| (a) Deservations items sensist minoriles of intersections | <i>.</i> . | 23,140    | . 1*   | 11,400        | 1 4 | 7,201      |    |                                     |    | 15,057                 |

<sup>(a)</sup>Reconciling items consist primarily of intercompany eliminations and items not directly attributable to operating segments. <sup>(b)</sup>Transaction costs include advisory, legal, accounting, valuation, and other professional or consulting fees incurred during acquisitions and divestitures. These costs are included in Selling, general and administrative expense in the Consolidated Statements of Income Geographic information on Net sales to external customers, based on country of origin:

| (In thousands) | <br>2023        | 2022            | 2021            |
|----------------|-----------------|-----------------|-----------------|
| United States  | \$<br>1,036,521 | \$<br>876,945   | \$<br>746,825   |
| Other          | 751,126         | 651,008         | 653,357         |
| Total          | \$<br>1,787,647 | \$<br>1,527,953 | \$<br>1,400,182 |

Geographic information on tangible long-lived assets, net, based on country of origin:

| (In thousands) | 2023       | 2022       | 2021       |
|----------------|------------|------------|------------|
| United States  | \$ 156,937 | \$ 159,345 | \$ 155,667 |
| Other          | 108,238    | 92,349     | 102,304    |
| Total          | \$ 265,175 | \$ 251,694 | \$ 257,971 |

Total Net sales by product portfolio was as follows:

| 2023                         | <br>Consolid     | ated    |    | Americas  |         |    | Americas |         |  | International |  |
|------------------------------|------------------|---------|----|-----------|---------|----|----------|---------|--|---------------|--|
| (In thousands)               | <br>Dollars      | Percent |    | Dollars   | Percent |    | Dollars  | Percent |  |               |  |
| Firefighter Safety (a)       | \$<br>684,224    | 38%     | \$ | 501,676   | 41%     | \$ | 182,548  | 33%     |  |               |  |
| Detection <sup>(b)</sup>     | 634,915          | 36%     |    | 419,312   | 34%     |    | 215,603  | 39%     |  |               |  |
| Industrial PPE and Other (c) | 468,508          | 26%     |    | 314,606   | 25%     |    | 153,902  | 28%     |  |               |  |
| Total                        | \$<br>1,787,647  | 100%    | \$ | 1,235,594 | 100%    | \$ | 552,053  | 100%    |  |               |  |
| 2022                         | Consolid         | ated    |    | Americ    | cas     |    | Internat | tional  |  |               |  |
| (In thousands)               | <br>Dollars      | Percent |    | Dollars   | Percent |    | Dollars  | Percent |  |               |  |
| Firefighter Safety (a)       | \$<br>578,935    | 38%     | \$ | 416,427   | 40%     | \$ | 162,508  | 34%     |  |               |  |
| Detection <sup>(b)</sup>     | 529,735          | 35%     |    | 349,543   | 34%     |    | 180,192  | 37%     |  |               |  |
| Industrial PPE and Other (c) | 419,283          | 27%     |    | 277,268   | 26%     |    | 142,015  | 29%     |  |               |  |
| Total                        | \$<br>1,527,953  | 100%    | \$ | 1,043,238 | 100%    | \$ | 484,715  | 100%    |  |               |  |
| 2021                         | <br>Consolidated |         |    | Amerio    | cas     |    | Internat | tional  |  |               |  |
| (In thousands)               | <br>Dollars      | Percent |    | Dollars   | Percent |    | Dollars  | Percent |  |               |  |
| Firefighter Safety (a)       | \$<br>526,326    | 38%     | \$ | 354,426   | 39%     | \$ | 171,900  | 35%     |  |               |  |
| Detection <sup>(b)</sup>     | 461,779          | 33%     |    | 292,058   | 32%     |    | 169,721  | 34%     |  |               |  |
| Industrial PPE and Other (c) | 412,077          | 29%     |    | 261,584   | 29%     |    | 150,493  | 31%     |  |               |  |
| Total                        | \$<br>1,400,182  | 100%    | \$ | 908,068   | 100%    | \$ | 492,114  | 100%    |  |               |  |
|                              |                  |         |    |           |         |    |          |         |  |               |  |

<sup>(a)</sup> Firefighter Safety includes Breathing Apparatus and Firefighter Helmets and Protective Apparel, and includes sales from the Bristol acquisition from January 25, 2021 onward (International).

<sup>(b)</sup> Detection includes Fixed Gas and Flame Detection and Portable Gas detection, and includes sales from the Bacharach acquisition from July 1, 2021 onward (Americas and International).

<sup>(c)</sup> Industrial PPE and Other includes Industrial Head Protection, Fall Protection and Non-Core.

# Note 9—Earnings per Share

Basic earnings per share attributable to MSA Safety Incorporated common shareholders is computed by dividing net income, after the deduction of preferred stock dividends and undistributed earnings allocated to participating securities, by the weighted average number of common shares outstanding during the period. Diluted earnings per share attributable to MSA Safety Incorporated common shareholders assumes the issuance of common stock for all potentially dilutive share equivalents outstanding not classified as participating securities. Participating securities are defined as unvested stock-based compensation awards that contain nonforfeitable rights to dividends.

### Amounts attributable to MSA Safety Incorporated common shareholders:

| (In thousands, except per share amounts)                                   | <br>2023     | 2022          | 2021         |
|--|--------------|---------------|--------------|
| Net income   | \$<br>58,583 | \$<br>179,630 | \$<br>21,340 |
| Preferred stock dividends  | (41)         | (41)          | (41)         |
| Net income available to common equity                                      | 58,542       | 179,589       | 21,299       |
| Dividends and undistributed earnings allocated to participating securities | (26)         | (30)          | (24)         |
| Net income available to common shareholders                                | \$<br>58,516 | \$<br>179,559 | \$<br>21,275 |
|  |              |               |              |
| Basic weighted-average shares outstanding                                  | 39,307       | 39,232        | 39,173       |
| Stock options and other stock-based awards                                 | 166          | 175           | 276          |
| Diluted weighted-average shares outstanding                                | <br>39,473   | 39,407        | 39,449       |
| Antidilutive stock-based awards  | _            | _             |              |
|  |              |               |              |
| Earnings per share:  |              |               |              |
| Basic  | \$<br>1.49   | \$<br>4.58    | \$<br>0.54   |
| Diluted  | \$<br>1.48   | \$<br>4.56    | \$<br>0.54   |

### Note 10—Income Taxes

| (In thousands)                           | <br>2023      | 2022          |    | 2021     |
|--|---------------|---------------|----|----------|
| Components of income before income taxes |               |               | _  |          |
| U.S. income (loss)                       | \$<br>80,229  | \$<br>170,426 | \$ | (59,746) |
| Non-U.S. income                          | 126,459       | 68,107        |    | 83,350   |
| Income before income taxes               | \$<br>206,688 | \$<br>238,533 | \$ | 23,604   |
| Provision for income taxes               |               |               | _  |          |
| Current                                  |               |               |    |          |
| Federal                                  | \$<br>49,642  | \$<br>26,022  | \$ | 13,179   |
| State                                    | 9,510         | 7,708         |    | 5,000    |
| Non-U.S.                                 | 27,101        | 20,002        |    | 22,487   |
| Total current provision                  | \$<br>86,253  | \$<br>53,732  | \$ | 40,666   |
| Deferred                                 |               |               | _  |          |
| Federal                                  | \$<br>54,272  | \$<br>7,350   | \$ | (29,631) |
| State                                    | 12,914        | 862           |    | (7,204)  |
| Non-U.S.                                 | (5,334)       | (3,041)       |    | (2,015)  |
| Total deferred provision (benefit)       | 61,852        | <br>5,171     |    | (38,850) |
| Provision for income taxes               | \$<br>148,105 | \$<br>58,903  | \$ | 1,816    |

On June 10, 2021 the United Kingdom ("U.K.") Parliament announced royal assent for Bill No. 12, on the Finance Act of 2021. This bill increased the statutory rate from 19% to 25% in April 2023. The Company recorded this impact on its deferred tax balances in the second quarter of 2021.

Reconciliation of the U.S. federal income tax rates to our effective tax rate:

|   | 2023     | 2022           | 2021     |
|---|----------|----------------|----------|
| U.S. federal income tax rate  | 21.0 %   | 21.0 %         | 21.0 %   |
| Divestiture (Note 20)   | 46.6 %   | <u>      %</u> | %        |
| State income taxes-U.S.   | 3.7 %    | 2.9 %          | (7.0)%   |
| Nondeductible compensation  | 1.9 %    | 1.2 %          | 15.3 %   |
| Research and development credit                                     | (0.8)%   | (0.4)%         | (5.3)%   |
| Taxes on non-U.S. income  | (0.6)%   | 0.1 %          | (10.9)%  |
| Taxes on non-U.S. income - U.S., Canadian & European reorganization | (0.5)%   | <u>      %</u> | <u> </u> |
| Employee share-based payments                                       | (0.4)%   | (0.8)%         | (18.3)%  |
| Valuation allowances  | (0.2)%   | 0.8 %          | 7.0 %    |
| Foreign exchange on entity closures                                 | <u> </u> | 0.3 %          | (0.4)%   |
| Other   | 0.9 %    | (0.4)%         | 6.3 %    |
| Effective income tax rate   | 71.6 %   | 24.7 %         | 7.7 %    |

Components of deferred tax assets and liabilities:

|   | Decen       | nber 31,  |
|---|-------------|-----------|
| (In thousands)                                    | 2023        | 2022      |
| Deferred tax assets                               |             |           |
| Capitalized research and development              | \$ 28,822   | \$ 26,988 |
| Net operating losses and tax credit carryforwards | 10,964      | 10,696    |
| Share-based compensation                          | 5,528       | 4,562     |
| Inventory   | 7,281       | _         |
| Accrued expenses and other reserves               | 4,566       | 5,738     |
| Reserve for doubtful accounts                     | 1,562       | _         |
| Product liability                                 | 655         | 72,950    |
| Other   | 7,218       | 5,068     |
| Total deferred tax assets                         | 66,596      | 126,002   |
| Valuation allowances                              | (9,671)     | (10,017)  |
| Net deferred tax assets                           | 56,925      | 115,985   |
| Deferred tax liabilities                          |             |           |
| Goodwill and intangibles                          | (83,100)    | (80,383)  |
| Employee benefits                                 | (24,958)    | (18,899)  |
| Property, plant and equipment                     | (15,541)    | (18,735)  |
| Other   | (2,680)     | (4,359)   |
| Total deferred tax liabilities                    | (126,279)   |           |
| Net deferred taxes                                | \$ (69,354) |           |

At December 31, 2023, we had net operating loss carryforwards of approximately \$50.4 million. All net operating loss carryforwards without a valuation allowance may be carried forward for a period of at least six years.

A reconciliation of the change in the tax liability for unrecognized tax benefits for the years ended December 31, 2023 and 2022 is as follows:

| (In thousands)  | <br>2023    | 2022        |
|---|-------------|-------------|
| Beginning balance   | \$<br>5,192 | \$<br>4,937 |
| Adjustments for tax positions related to the current year | _           | 100         |
| Adjustments for tax positions related to prior years      | (1,116)     | 155         |
| Settlements   |             |             |
| Statute expiration  | <br>(992)   |             |
| Ending balance  | \$<br>3,084 | \$<br>5,192 |

The total amount of unrecognized tax benefits, if recognized, would reduce our future effective tax rate. We have recognized tax benefits associated with these liabilities in the amount of \$0.6 million and \$2.7 million at December 31, 2023 and 2022, respectively.

We recognize interest related to unrecognized tax benefits in interest expense and penalties in operating expenses. Our liability for accrued interest and penalties related to uncertain tax positions was \$0.2 million and \$1.1 million at December 31, 2023 and 2022, respectively.

We are subject to regular review and audit by both foreign and domestic tax authorities. While we believe our tax positions will be sustained, the final outcome of tax audits and related litigation may differ materially from the tax amounts recorded in our consolidated financial statements.

We file a U.S. federal income tax return along with various state and foreign income tax returns. Examinations of our U.S. federal returns have been completed through 2018. Various state and foreign income tax returns may be subject to tax audits for periods after 2015.

On August 16, 2022, President Biden signed the Inflation Reduction Act which includes a new minimum tax on certain large corporations and an excise tax on stock buybacks. We do not anticipate this legislation will have a material impact for the company.

The Organization for Economic Co-operation and Development (OECD) has a framework to implement a global minimum corporate tax of 15% for companies with global revenues above  $\notin$ 750.0 million (referred to as Pillar 2), with effective dates beginning in January 2024. While it is uncertain whether the U.S. will enact legislation to adopt Pillar 2, we meet the overall revenue threshold and therefore fall within the scope of Pillar 2. At this time, we do not expect Pillar 2 to have a material impact on our effective tax rate or our consolidated results of operation, financial position, and cash flows. We continue to monitor the potential financial impacts and compliance requirements of Pillar 2.

#### Note 11-Stock Plans

The 2023 Management Equity Incentive Plan and its predecessor, the 2016 Management Equity Incentive Plan, provide for various forms of stockbased compensation for eligible employees through May 2033 including stock options, restricted stock awards, restricted stock units and performance stock units. The 2017 Non-Employee Directors' Equity Incentive Plan provides for grants of stock options and restricted stock to non-employee directors through May 2027. Stock options are granted at market prices and expire after ten years. Stock options are exercisable beginning three years after the grant date. Restricted stock and restricted stock units are granted without payment to the Company and generally vest three years after the grant date. Restricted stock and restricted stock units are valued at the market value of the stock on the grant date. Performance stock units with a market condition are valued at an estimated fair value using a Monte Carlo simulation model. The final number of shares to be issued for performance stock units may range from zero to 240% of the target award based on achieving the specified performance targets over the performance period and further range based upon the achieved market metric over the performance period. In general, unvested stock options, restricted stock and performance stock units are forfeited if the participant's employment with the Company terminates for any reason other than retirement, death or disability. We issue Treasury shares for stock option exercises and grants of restricted stock and performance stock. Please refer to Note 7—Capital Stock for further information regarding stock compensation share issuance. As of December 31, 2023, there were 1,869,407 and 68,439 shares, respectively, reserved for future grants under the management and nonemployee directors' equity incentive plans.

Stock-based compensation expense was as follows:

| (In thousands)  | <br>2023     | 2022         | 2021         |
|---|--------------|--------------|--------------|
| Restricted stock units                                      | \$<br>8,062  | \$<br>6,488  | \$<br>5,797  |
| Stock options   | —            | 49           | 81           |
| Performance stock units                                     | <br>21,961   | 13,113       | <br>13,030   |
| Total stock-compensation expense before income taxes        | 30,023       | 19,650       | <br>18,908   |
| Income tax benefit  | 7,356        | 4,814        | 4,633        |
| Total stock-compensation expense, net of income tax benefit | \$<br>22,667 | \$<br>14,836 | \$<br>14,275 |

We did not capitalize any stock-based compensation expense, and all expense is included in Selling, general and administrative expense in the Consolidated Statements of Income.

A summary of option activity follows:

|                               | Shares    | Weighted<br>Average<br>Exercise Price | Exercisable at<br>Year-end |
|-------------------------------|-----------|---------------------------------------|----------------------------|
| Outstanding January 1, 2021   | 283,998   | \$ 46.23                              |                            |
| Exercised                     | (122,087) | 47.25                                 |                            |
| Forfeited                     | (210)     | 43.75                                 |                            |
| Outstanding December 31, 2021 | 161,701   | 45.47                                 | 161,347                    |
| Exercised                     | (103,545) | 44.91                                 |                            |
| Outstanding December 31, 2022 | 58,156    | 46.48                                 | 58,156                     |
| Exercised                     | (31,394)  | 46.90                                 |                            |
| Forfeited                     | (226)     | 49.44                                 |                            |
| Outstanding December 31, 2023 | 26,536    | \$ 45.95                              | 26,536                     |

For various exercise price ranges, characteristics of outstanding and exercisable stock options at December 31, 2023 were as follows:

|                          | Stock Options Outstanding and Exercisable |                  |                |                |  |  |
|--------------------------|---|------------------|----------------|----------------|--|--|
|                          |   | Weighted-Average |                |                |  |  |
| Range of Exercise Prices | Shares                                    |                  | Exercise Price | Remaining Life |  |  |
| \$33.01 - \$45.00        | 17,820                                    | \$               | 44.50          | 1.66           |  |  |
| \$45.01 - \$57.93        | 8,716                                     |                  | 48.92          | 1.73           |  |  |
| \$33.01 - \$57.93        | 26,536                                    | \$               | 45.95          | 1.68           |  |  |

Cash received from the exercise of stock options was \$1.5 million, \$4.7 million and \$5.8 million for the years ended December 31, 2023, 2022 and 2021, respectively. The tax benefit we realized from these exercises was \$0.9 million, \$1.9 million and \$4.3 million for the years ended December 31, 2023, 2022 and 2021, respectively.

Stock options become exercisable when they are vested. The aggregate intrinsic value of stock options exercisable and outstanding at December 31, 2023 was \$3.3 million.

Restricted stock awards and restricted stock units are valued at the market value of the stock on the grant date. A summary of restricted stock unit activity follows:

|                               | Shares   | W  | eighted Average<br>Grant Date<br>Fair Value |
|-------------------------------|----------|----|---|
| Unvested January 1, 2021      | 146,191  | \$ | 105.83                                      |
| Granted                       | 43,146   |    | 167.13                                      |
| Vested                        | (65,225) |    | 95.43                                       |
| Forfeited                     | (5,769)  |    | 132.54                                      |
| Unvested at December 31, 2021 | 118,343  |    | 132.62                                      |
| Granted                       | 87,697   |    | 130.28                                      |
| Vested                        | (51,369) |    | 113.96                                      |
| Forfeited                     | (8,785)  |    | 139.66                                      |
| Unvested at December 31, 2022 | 145,886  |    | 137.36                                      |
| Granted                       | 81,150   |    | 142.92                                      |
| Vested                        | (43,107) |    | 126.27                                      |
| Forfeited                     | (10,078) |    | 140.28                                      |
| Unvested at December 31, 2023 | 173,851  | \$ | 142.73                                      |

A summary of performance stock unit activity follows:

|                               | Shares   | Weighted Average<br>Grant Date<br>Fair Value |
|-------------------------------|----------|--|
| Unvested at January 1, 2021   | 200,212  | \$ 104.69                                    |
| Granted                       | 52,309   | 175.59                                       |
| Vested                        | (64,543) | 85.41  |
| Performance adjustments       | 5,357    | 88.45  |
| Unvested at December 31, 2021 | 193,335  | 129.86                                       |
| Granted                       | 81,504   | 142.38                                       |
| Vested                        | (55,447) | 101.38                                       |
| Performance adjustments       | (22,147) | 99.84  |
| Forfeited                     | (18,485) | 147.66                                       |
| Unvested at December 31, 2022 | 178,760  | 146.28                                       |
| Granted                       | 77,654   | 132.39                                       |
| Vested                        | (53,407) | 127.36                                       |
| Performance adjustments       | (3,009)  | 127.40                                       |
| Forfeited                     | (10,777) | 147.06                                       |
| Unvested at December 31, 2023 | 189,221  | \$ 146.17                                    |

The 2023 performance adjustments above relate primarily to 2020 performance unit awards which vested in the first quarter of 2023 at 94.9% of the target award based on both cumulative performance against EBITDA margin and revenue growth targets and MSA's TSR during the three-year performance period.

During the years ended December 31, 2023, 2022 and 2021, the total intrinsic value of stock options exercised (the difference between the market price on the date of exercise and the option price paid to exercise the option) was \$3.7 million, \$8.6 million and \$13.0 million, respectively. The fair values of restricted stock vested during the years ended December 31, 2023, 2022 and 2021 were \$5.4 million, \$5.9 million and \$6.2 million, respectively. The fair value of performance stock units vested during the years ended December 31, 2023, 2022 and 2021 was \$6.8 million, \$5.6 million and \$5.5 million, respectively.

On December 31, 2023, there was \$21.1 million of unrecognized stock-based compensation expense. The weighted average period over which this expense is expected to be recognized was approximately 1.7 years.

### Note 12—Long-Term Debt

### Long-Term Debt

|   | December 31, |         |    |         |  |
|---|--------------|---------|----|---------|--|
| (In thousands)  | 2023         |         |    | 2022    |  |
| 2016 Senior Notes payable through 2031, 3.40%, net of debt issuance costs     | \$           | 62,081  | \$ | 66,379  |  |
| 2021 Senior Notes payable through 2036, 2.69%, net of debt issuance costs     |              | 99,733  |    | 99,711  |  |
| 2021 Senior Notes payable through 2036, 2.69%, net of debt issuance costs     |              | 99,733  |    | 99,711  |  |
| 2023 Term Loan credit agreement maturing in 2026, net of debt issuance costs  |              | 230,604 |    |         |  |
| 2023 Senior Notes payable through 2028, 5.25%, net of debt issuance costs     |              | 49,939  |    |         |  |
| Senior revolving credit facility maturing in 2026, net of debt issuance costs |              | 59,602  |    | 307,031 |  |
| Total   |              | 601,692 |    | 572,832 |  |
| Amounts due within one year   |              | 26,522  |    | 7,387   |  |
| Long-term debt, net of debt issuance costs                                    | \$           | 575,170 | \$ | 565,445 |  |

On May 24, 2021, the Company entered into a Fourth Amended and Restated Credit Agreement (the "Revolving Credit Facility" or "Facility") that extended its term through May 24, 2026 and increased the capacity to \$900.0 million. The agreement was amended in August 2021 and June 2023 to transition from Sterling LIBOR reference rates and U.S. LIBOR reference rates. Under the amended agreement, the Company may elect either a Base rate of interest ("BASE") or an interest rate based on Secured Overnight Financing Rate ("SOFR"). The BASE is a daily fluctuating per annum rate equal to the highest of (i) 0.00%, (ii) the Overnight Bank Funding Rate, plus 0.5%, (iii) the Prime Rate (iv) the Daily Simple SOFR rate, plus 1.00%. The Company pays a credit spread of 0 to 175 basis points based on the Company's net EBITDA leverage ratio and elected rate (BASE or SOFR). The Company has a weighted average revolver interest rate of 6.22% as of December 31, 2023. At December 31, 2023, \$838.1 million of the existing \$900.0 million senior revolving credit facility was unused, including letters of credit issued under the facility. The facility also provides an accordion feature that allows the Company to access an additional \$400.0 million of capacity pending approval by MSA's board of directors and from the bank group.

On July 1, 2021, the Company entered into a Third Amended and Restated Multi-Currency Note Purchase and Private Shelf Agreement (the "Prudential Note Agreement") with PGIM, Inc. ("Prudential"). The Prudential Note Agreement provided for (i) the issuance of \$100.0 million of 2.69% Series C Senior Notes due July 1, 2036 and (ii) the establishment of an uncommitted note issuance facility whereby the Company may request, subject to Prudential's acceptance in its sole discretion, the issuance of up to \$335.0 million aggregate principal amount of senior unsecured notes. The Company has outstanding £48.8 million (approximately \$62.2 million at December 31, 2023) of 3.4% Series B Senior Notes due January 22, 2031. Remaining maturities of this note are £6.1 million (approximately \$7.8 million at December 31, 2023) due annually through January 2031.

On July 1, 2021, the Company entered into a Second Amended and Restated Master Note Facility (the "NYL Note Facility") with NYL Investors. The NYL Note Facility provided for (i) the issuance of \$100.0 million of 2.69% Series A Senior Notes due July 1, 2036 and (ii) the establishment of an uncommitted note issuance facility whereby the Company may request, subject to NYL Investors' acceptance in its sole discretion, the issuance of up to \$200.0 million aggregate principal amount of senior unsecured notes.

On June 29, 2023, the Company issued \$50 million of 5.25% Series B Senior Notes due July 1, 2028, pursuant to the NYL Note Facility (the "Notes"). The Notes bear interest at 5.25% per annum, payable semi-annually, and mature on July 1, 2028. The Notes provide for a principal payment of \$25 million on July 1, 2027, with the remaining \$25 million due on July 1, 2028. The Notes may be redeemed at the Company's option prior to their maturity at a make-whole redemption price calculated as provided in the NYL Note Facility. The proceeds of the Notes were used on June 29, 2023, to pay down an equivalent amount of borrowings under the Company's Revolving Credit Facility with PNC Bank, National Association, as Administrative Agent.

On July 1, 2021, the Company acquired Bacharach in a transaction valued at \$329.4 million, net of cash acquired. The acquisition was partially financed by \$200.0 million of 2.69% Senior Notes from the Prudential Note Agreement and NYL Note Facility. The remaining purchase price was financed under the Revolving Credit Facility.



During August 2021 and June 2023, respectively, the Company amended its Revolving Credit Facility to transition from Sterling LIBOR reference rates to Sterling Overnight Interbank Average Rate SONIA reference rates and from U.S. LIBOR reference rates to SOFR reference rates. The Company applied the optional expedients in ASC 848, Reference Rate Reform, to these modifications driven by reference rate reform, accounting for the modifications as a continuation of the existing contracts. Therefore, these modifications did not require remeasurement at the modification date or a reassessment of previous accounting determinations. As such, the change in reference rates did not have an impact on the Company's consolidated financial statements.

On January 5, 2023, the Company entered into a new \$250 million term loan facility to fund the divestiture of MSA LLC, a wholly owned subsidiary. Under the agreement, the Company may elect either BASE or an interest rate based on SOFR. The Company pays a credit spread of 0 to 200 basis points based on the Company's net EBITDA leverage ratio and elected rate. The Company had a Term Loan interest rate of 6.45% as of December 31, 2023.

The Revolving Credit Facility, Term Loan Facility, Prudential Note Agreement and NYL Note Facility require the Company to comply with specified financial covenants, including a requirement to maintain a minimum fixed charges coverage ratio of not less than 1.50 to 1.00 and a consolidated leverage ratio not to exceed 3.50 to 1.00; except during an acquisition period, defined as four consecutive fiscal quarters beginning with the quarter of acquisition, in which case the consolidated net leverage ratio shall not exceed 4.00 to 1.00; in each case calculated on the basis of the trailing four fiscal quarters. In addition, the agreements contain negative covenants limiting the ability of the Company and its subsidiaries to incur additional indebtedness or issue guarantees, create or incur liens, make loans and investments, make acquisitions, transfer or sell assets, enter into transactions with affiliated parties, make changes in its organizational documents that are materially adverse to lenders or modify the nature of the Company's or its subsidiaries' business. All credit facilities excluded MSA LLC prior to the divestiture of this subsidiary on January 5, 2023, as discussed further in Note 20.

As of December 31, 2023, MSA was in full compliance with the restrictive covenants under its various credit agreements.

Approximate maturities on our long-term debt over the next five years are \$26.5 million in 2024, \$32.8 million in 2025, \$256.1 million in 2026, \$32.8 million in 2027, \$32.8 million in 2028 and \$223.3 million thereafter.

The Company had outstanding bank guarantees and standby letters of credit with banks as of December 31, 2023, totaling \$9.1 million, of which \$1.1 million relate to the senior revolving credit facility. The letters of credit serve to cover customer requirements in connection with certain sales orders and insurance companies. The Company is also required to provide cash collateral in connection with certain arrangements. At December 31, 2023, the Company has \$2.0 million of restricted cash in support of these arrangements.

#### Note 13—Goodwill and Intangible Assets

Changes in goodwill during the years ended December 31, 2023 and 2022, were as follows:

| (In thousands)                | <br>2023      |    | 2022     |
|-------------------------------|---------------|----|----------|
| Balance at January 1          | \$<br>620,622 | \$ | 636,858  |
| Measurement period adjustment |               |    | (1,041)  |
| Currency translation          | 6,912         |    | (15,195) |
| Balance at December 31        | \$<br>627,534 | \$ | 620,622  |

At December 31, 2023, goodwill of \$447.6 million and \$179.9 million related to the Americas and International reportable segments, respectively.

Changes in intangible assets, net of accumulated amortization, during the years ended December 31, 2023 and 2022, were as follows:

| (In thousands)             | <br>2023      | 2022          |
|----------------------------|---------------|---------------|
| Net balance at January 1   | \$<br>281,853 | \$<br>306,948 |
| Amortization expense       | (18,085)      | (19,137)      |
| Currency translation       | 2,366         | (5,958)       |
| Net balance at December 31 | \$<br>266,134 | \$<br>281,853 |

| (In millions)                      | ions)                                   |    |                             |    |          |   | December 31, 2023 December 31, 2022 |    |          |    |          |    |   |  |  |                             |  |                             |   |                       |
|------------------------------------|---|----|-----------------------------|----|----------|---|-------------------------------------|----|----------|----|----------|----|---|--|--|-----------------------------|--|-----------------------------|---|-----------------------|
| Intangible Assets:                 | Weighted Average<br>Useful Life (years) |    | Gross<br>Carrying<br>Amount |    | Carrying |   | Carrying                            |    | Carrying |    | Carrying |    | Accumulated Net Carrying<br>Amortization Amount |  |  | Gross<br>Carrying<br>Amount |  | Accumulated<br>Amortization | N | et Carrying<br>Amount |
| Customer relationships             | 19                                      | \$ | 181.8                       | \$ | (46.5)   | 9 | \$ 135.3                            | \$ | 178.7    | \$ | (35.3)   | \$ | 143.4   |  |  |                             |  |                             |   |                       |
| Distribution agreements            | 20                                      |    | 66.0                        |    | (30.2)   |   | 35.8                                |    | 65.8     |    | (26.9)   |    | 38.9  |  |  |                             |  |                             |   |                       |
| Technology related assets          | 8                                       |    | 49.9                        |    | (32.7)   |   | 17.2                                |    | 49.5     |    | (29.3)   |    | 20.2  |  |  |                             |  |                             |   |                       |
| Patents, trademarks and copyrights | 16                                      |    | 34.5                        |    | (16.8)   |   | 17.7                                |    | 34.0     |    | (14.8)   |    | 19.2  |  |  |                             |  |                             |   |                       |
| License agreements                 | 5                                       |    | 5.4                         |    | (5.4)    |   |                                     |    | 5.4      |    | (5.3)    |    | 0.1   |  |  |                             |  |                             |   |                       |
| Other                              | 3                                       |    | 3.4                         |    | (3.3)    |   | 0.1                                 |    | 3.3      |    | (3.2)    |    | 0.1   |  |  |                             |  |                             |   |                       |
| Total                              | 17                                      | \$ | 341.0                       | \$ | (134.9)  | 9 | 5 206.1                             | \$ | 336.7    | \$ | (114.8)  | \$ | 221.9   |  |  |                             |  |                             |   |                       |

At December 31, 2023, the above intangible assets balance includes a trade name related to the Globe acquisition with an indefinite life totaling \$60.0 million.

Intangible asset amortization expense over the next five years is expected to be approximately \$17.9 million in 2024, \$17.7 million in 2025, \$17.3 million in 2026, \$17.2 million in 2027, and \$17.0 million in 2028.

### Note 14—Acquisitions

#### Acquisition of Bacharach

On July 1, 2021, we acquired 100% of the common stock of Bacharach in an all cash transaction valued at \$329.4 million, net of cash acquired.

Headquartered near Pittsburgh in New Kensington, PA, Bacharach is a leader in gas detection technologies used in the HVAC-R markets. This acquisition expanded MSA's gas detection portfolio and leverages MSA's product and manufacturing expertise into new markets.

Bacharach's operating results are included in our consolidated financial statements from the acquisition date within the Americas, International and Corporate reportable segments. The acquisition qualified as a business combination and was accounted for using the acquisition method of accounting.

The following table summarizes the fair values of the Bacharach assets acquired and liabilities assumed at the date of the acquisition:

| (In millions)   | Jul | y 1, 2021 |
|---|-----|-----------|
| Current assets (including cash of \$11.7 million)         | \$  | 32.1      |
| Property, plant and equipment and other noncurrent assets |     | 4.3       |
| Customer relationships                                    |     | 123.0     |
| Developed technology                                      |     | 20.5      |
| Trade name  |     | 15.0      |
| Goodwill  |     | 193.5     |
| Total assets acquired                                     |     | 388.4     |
| Total liabilities assumed                                 |     | (47.3)    |
| Net assets acquired                                       | \$  | 341.1     |

Assets acquired and liabilities assumed in connection with the acquisition were recorded at fair values. Fair values were determined by management, based in part on an independent valuation performed by a third party valuation specialist. The valuation methods used to determine the fair value of intangible assets included the excess earnings approach for customer relationships using customer inputs and contributory charges; the relief from royalty method for trade name and developed technologies; and the cost method for assembled workforce was included in goodwill. A number of significant assumptions and estimates were involved in the application of these valuation methods, including forecasted sales volumes and prices, royalty rates, costs to produce, tax rates, capital spending, discount rates, attrition rates and working capital changes. Cash flow forecasts were generally based on Bacharach pre-acquisition forecasts, coupled with estimated MSA sales synergies. Identifiable intangible assets with finite lives are subject to amortization over their estimated useful lives. The customer relationships, developed technology and trade name acquired in the Bacharach transaction are being amortized over periods of 21 years, 7 to 9 years and 20 years, respectively. The step up to fair value of acquired inventory as part of the purchase price allocation totaled \$2.3 million. The amortization of the inventory step up was included in Cost of products sold in the Consolidated Statements of Income for the year ended December 31, 2021.

Goodwill is calculated as the excess of the purchase price over the fair value of net assets acquired and represents the future economic benefits arising from other assets acquired that could not be individually identified and separately recognized. Among the factors that contributed to a purchase price in excess of the fair value of the net tangible and intangible assets acquired were the acquisition of an assembled workforce, the expected synergies and other benefits that we believe will result from combining the operations of Bacharach with our operations. Goodwill of \$193.5 million related to the Bacharach acquisition was recorded, with \$154.6 million and \$38.9 million allocated to the Americas reportable segment and International reportable segment, respectively. This Goodwill is non-deductible for tax purposes.

### Acquisition of Bristol Uniforms and Bell Apparel

On January 25, 2021, we acquired 100% of the common stock of B T Q Limited, including Bristol in an all-cash transaction valued at \$63.0 million, net of cash acquired.

Bristol, which is headquartered in the U.K., is a leading innovator and provider of protective apparel to the fire, rescue services, and utility sectors. The acquisition strengthens MSA's position as a global market leader in fire service personal protective equipment products, which include breathing apparatus, firefighter helmets, thermal imaging cameras, and firefighter protective apparel, while providing an avenue to expand its business in the U.K. and key European markets. Bristol is also a leading manufacturer of flame-retardant, waterproof, and other protective work wear for the utility industry. Marketed under the Bell Apparel brand, this line complements MSA's existing and broad range of offerings for the global utility market.

Bristol's operating results are included in our consolidated financial statements from the acquisition date as part of the International reportable segment. The acquisition qualified as a business combination and was accounted for using the acquisition method of accounting.

The following table summarizes the fair values of the Bristol assets acquired and liabilities assumed at the date of the acquisition:

| (In millions)   | Jan | uary 25, 2021 |
|---|-----|---------------|
| Current assets (including cash of \$13.3 million)         | \$  | 37.1          |
| Net investment in sales-type leases, noncurrent           |     | 29.0          |
| Property, plant and equipment and other noncurrent assets |     | 12.0          |
| Customer relationships                                    |     | 4.5           |
| Trade name and other intangible assets                    |     | 1.4           |
| Goodwill  |     | 4.9           |
| Total assets acquired                                     |     | 88.9          |
| Total liabilities assumed                                 |     | (12.6)        |
| Net assets acquired                                       | \$  | 76.3          |

Assets acquired and liabilities assumed in connection with the acquisition were recorded at fair values. Fair values were determined by management, based in part on an independent valuation performed by a third party valuation specialist. The valuation methods used to determine the fair value of intangible assets included the excess earnings approach for customer relationships using customer inputs and contributory charges; the relief from royalty method for trade name; and the cost method for assembled workforce which is included in goodwill. A number of significant assumptions and estimates were involved in the application of these valuation methods, including forecasted sales volumes and prices, royalty rates, costs to produce, tax rates, capital spending, discount rates, attrition rates and working capital changes. Cash flow forecasts were generally based on Bristol pre-acquisition forecasts, coupled with estimated MSA sales synergies. Identifiable intangible assets with finite lives are subject to amortization over their estimated useful lives. The customer relationships and trade name acquired in the Bristol transaction will be amortized over a period of 15 years. The step up to fair value of acquired inventory as part of the purchase price allocation totaled \$1.5 million. The amortization of the inventory step up was included in Cost of products sold in the Consolidated Statements of Income for the year ended December 31, 2021.

Goodwill is calculated as the excess of the purchase price over the fair value of net assets acquired and represents the future economic benefits arising from other assets acquired that could not be individually identified and separately recognized. Among the factors that contributed to a purchase price in excess of the fair value of the net tangible and intangible assets acquired were the acquisition of an assembled workforce, the expected synergies and other benefits that we believe will result from combining the operations of Bristol with our operations. Goodwill of \$4.9 million related to the Bristol acquisition has been recorded in the International reportable segment and is non-deductible for tax purposes.

The operating results of the Bristol and Bacharach acquisitions have been included in our consolidated financial statements from their respective acquisition dates. Our results for the year ended December 31, 2021, include combined net sales and net loss of \$67.2 million and \$6.3 million, respectively.

The following unaudited pro forma information presents our combined results as if the Bristol and Bacharach acquisitions had occurred at the beginning of 2021. The unaudited pro forma financial information was prepared to give effect to events that are (1) directly attributable to the acquisition; (2) factually supportable; and (3) expected to have a continuing impact on the combined company's results. There were no material transactions between MSA and Bristol or Bacharach during the periods presented that are required to be eliminated. The unaudited pro forma combined financial information does not reflect cost savings, operating synergies or revenue enhancements that the combined companies may achieve or the costs to integrate the operations or the costs necessary to achieve cost savings, operating synergies or revenue enhancements.

#### Pro forma combined financial information (Unaudited)

|   | Year | Ended December 31, |
|---|------|--------------------|
| (In millions, except per share amounts) |      | 2021               |
| Net sales                               | \$   | 1,437.9            |
| Net income                              |      | 10.2               |
| Basic earnings per share                |      | 0.26               |
| Diluted earnings per share              |      | 0.26               |

The unaudited pro forma combined financial information is presented for information purposes only and is not intended to represent or be indicative of the combined results of operations or financial position that we would have reported had the acquisition been completed as of the date and for the periods presented, and should not be taken as representative of our consolidated results of operations or financial condition following the acquisition. In addition, the unaudited pro forma combined financial information is not intended to project the future results of the combined company.

The unaudited pro forma combined financial information was prepared using the acquisition method of accounting under existing U.S. GAAP. MSA has been treated as the acquirer.

Total transaction costs were \$1.0 million, \$3.2 million and \$7.1 million for the years ended December 31, 2023, 2022 and 2021, respectively. Transaction costs are included in Selling, general and administrative expenses in the Consolidated Statements of Income.

#### Acquisition of Noncontrolling Interest

During July 2021, the Company purchased the remaining 10% noncontrolling interest in MSA (China) Safety Equipment Co., Ltd. from our partner in China for \$19.0 million, inclusive of a \$5.6 million distribution.

# Note 15—Pensions and Other Post-retirement Benefits

We maintain various defined benefit and defined contribution plans covering the majority of our employees. Our principal U.S. plan is funded in compliance with the Employee Retirement Income Security Act ("ERISA"). It is our general policy to fund current costs for the international plans, except in Germany and Mexico, where it is common practice and permissible under tax laws to maintain an unfunded liability.

We provide health care benefits and limited life insurance for certain retired employees who are covered by our principal U.S. defined benefit pension plan until they become Medicare-eligible.

Defined benefit pension plan and other post-retirement benefits plan information is provided in the following tables:

|   |          | Pension Benefits |    |           | _  | ïts       |          |            |
|---|----------|------------------|----|-----------|----|-----------|----------|------------|
| (In thousands)  |          | 2023 2022        |    |           |    | 2023      |          | 2022       |
| Change in Benefit Obligations                                 |          |                  |    |           |    |           |          |            |
| Benefit obligations at January 1                              | \$       | 490,365          | \$ | 654,362   | \$ | 22,538    | \$       | 29,831     |
| Service cost  |          | 7,587            |    | 12,281    |    | 214       |          | 327        |
| Interest cost   |          | 23,775           |    | 14,377    |    | 1,090     |          | 590        |
| Participant contributions                                     |          | 347              |    | 257       |    | 276       |          | 259        |
| Plan amendments   |          | (194)            |    | 154       |    |           |          | _          |
| Actuarial gains <sup>(a)</sup>                                |          | 23,750           |    | (156,214) |    | (326)     |          | (5,884)    |
| Benefits paid   |          | (26,140)         |    | (26,377)  |    | (2,406)   |          | (2,585)    |
| Curtailments  |          | (87)             |    | (286)     |    | _         |          |            |
| Settlements   |          | (1,574)          |    | (260)     |    |           |          |            |
| Currency translation  |          | 3,645            |    | (7,929)   |    |           |          |            |
| Benefit obligations at December 31                            | \$       | 521,474          | \$ | 490,365   | \$ | 21,386    | \$       | 22,538     |
| Change in Plan Assets   |          |                  |    |           |    | <u> </u>  |          | ,          |
| Fair value of plan assets at January 1                        | \$       | 514,218          | \$ | 651,986   | \$ |           | \$       |            |
| Actual return on plan assets                                  |          | 70,640           |    | (115,105) |    |           |          | _          |
| Employer contributions  |          | 5,217            |    | 5,032     |    | 2,130     |          | 2,326      |
| Participant contributions                                     |          | 347              |    | 257       |    | 276       |          | 259        |
| Settlements   |          | (1,574)          |    | (260)     |    |           |          |            |
| Benefits paid   |          | (26,140)         |    | (26,377)  |    | (2,406)   |          | (2,585)    |
| Administrative expenses paid                                  |          | (57)             |    | (54)      |    |           |          |            |
| Currency translation  |          | 798              |    | (1,261)   |    |           |          |            |
| Fair value of plan assets at December 31                      | \$       | 563,449          | \$ | 514,218   | \$ |           | \$       | _          |
| Funded Status   |          |                  |    |           |    |           |          |            |
| Funded status at December 31                                  | \$       | 41,975           | \$ | 23,853    | \$ | (21,386)  | \$       | (22,538)   |
| Unrecognized prior service credit (cost)                      |          | 1,021            |    | 1,224     |    | (184)     |          | (429)      |
| Unrecognized net actuarial losses                             |          | 82,796           |    | 90,212    |    | 5,568     |          | 6,445      |
| Net amount recognized   | \$       | 125,792          | \$ | 115,289   | \$ | (16,002)  | \$       | (16,522)   |
| Amounts Recognized in the Balance Sheets                      |          |                  | -  | <u> </u>  | -  |           | <u> </u> |            |
| Noncurrent assets   | \$       | 172,161          | \$ | 141,643   | \$ |           | \$       |            |
| Current liabilities   |          | (8,427)          |    | (3,712)   |    | (2,167)   |          | (2,226)    |
| Noncurrent liabilities  |          | (121,759)        |    | (114,078) |    | (19,219)  |          | (20,312)   |
| Net amount recognized   | \$       | 41,975           | \$ | 23,853    | \$ | (21,386)  | \$       | (22,538)   |
| Amounts Recognized in Accumulated Other Comprehensive Loss    | <u> </u> |                  |    |           |    | (==;====) | -        | (==,: 0 0) |
| Net actuarial losses  | \$       | 82,796           | \$ | 90,212    | \$ | 5,568     | \$       | 6,445      |
| Prior service cost (credit)                                   | Ŷ        | 1,021            | -  | 1,224     |    | (184)     | -        | (429)      |
| Total (before tax effects)                                    | \$       | 83,817           | \$ | 91,436    | \$ | 5,384     | \$       | 6,016      |
| Accumulated Benefit Obligations for all Defined Benefit Plans | \$       | 487,167          | \$ | 459,630   | \$ |           | \$       | 0,010      |
| The second congations for an Defined Defent Films             | ψ        | -07,107          | Ψ  | +57,050   | Ψ  |           | Ψ        |            |

<sup>(a)</sup>Actuarial gains for both periods relate primarily to the increase/decrease in discount rates used in measuring plan obligations as of December 31, 2023 and 2022, respectively.

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|   | Pension Benefits |          |    |          |    |                        |             | Ot | ther Benefits |             |
|---|------------------|----------|----|----------|----|------------------------|-------------|----|---------------|-------------|
| (In thousands)                                    |                  | 2023     |    | 2022     |    | 2021                   | <br>2023    |    | 2022          | 2021        |
| Components of Net Periodic Benefit (Income) Cost  | -                |          |    |          |    |                        |             |    |               |             |
| Service cost                                      | \$               | 7,587    | \$ | 12,281   | \$ | 12,910                 | \$<br>214   | \$ | 327           | \$<br>398   |
| Interest cost                                     |                  | 23,775   |    | 14,377   |    | 11,518                 | 1,090       |    | 590           | 476         |
| Expected return on plan assets                    |                  | (39,639) |    | (49,646) |    | (37,368)               | —           |    |               | —           |
| Amortization of prior service cost (credit)       |                  | 161      |    | 139      |    | 164                    | (245)       |    | (338)         | (358)       |
| Recognized net actuarial losses                   |                  | 186      |    | 11,704   |    | 17,458                 | 550         |    | 1,242         | 1,597       |
| Settlement/curtailment loss (gain)                |                  | 15       |    | (354)    |    | (2,234) <sup>(b)</sup> | —           |    |               | _           |
| Net periodic benefit (income) cost <sup>(a)</sup> | \$               | (7,915)  | \$ | (11,499) | \$ | 2,448                  | \$<br>1,609 | \$ | 1,821         | \$<br>2,113 |

<sup>(a)</sup>Components of net periodic benefit (income) cost other than service cost are included in the line item Other income, net, and service costs are included in the line items Cost of products sold and Selling, general and administrative in the Consolidated Statements of Income.

<sup>(b)</sup> Relates primarily to the conversion of our Netherlands pension plan into a defined contribution plan and is included in "Restructuring charges" in the Consolidated Statements of Income.

The Company utilizes a spot rate approach, which discounts the individual plan specific expected cash flows underlying the service and interest cost using the applicable spot rates derived from a yield curve used in the determination of the benefit obligation to the relevant projected cash flows. For plans where the discount rate is not derived from plan specific expected cash flows, the Company uses a single weighted-average discount rate derived from the yield curve used to measure the projected benefit obligation at the beginning of the period for measuring both the projected benefit obligations and the service and interest cost components of net periodic benefit cost for pension and other post-retirement benefits.

Information for pension plans with an accumulated benefit obligation in excess of plan assets:

|   | Pension Benefits |         |    |         |  |  |  |
|---|------------------|---------|----|---------|--|--|--|
| (In thousands)                                  | 2023             |         |    | 2022    |  |  |  |
| Aggregate accumulated benefit obligations (ABO) | \$               | 129,921 | \$ | 116,531 |  |  |  |
| Aggregate fair value of plan assets             |                  | 5,622   |    | 4,454   |  |  |  |

Information for pension plans with a projected benefit obligation in excess of plan assets:

|   |         |                  | Pension Be | enefits   |  |
|---|---------|------------------|------------|-----------|--|
| (In thousands)                                    |         |                  | 2023       | 2022      |  |
| Aggregate projected benefit obligations (PBO)     |         | \$               | 135,809 \$ | 5 122,229 |  |
| Aggregate fair value of plan assets               |         |                  | 5,622      | 4,454     |  |
|   | Pension | Pension Benefits |            | Benefits  |  |
|   | 2023    | 2022             | 2023       | 2022      |  |
| Assumptions used to determine benefit obligations |         |                  |            |           |  |

| - 1 | issumptions used to determine benefit obligations       |        |        |        |        |
|-----|---|--------|--------|--------|--------|
|     | Average discount rate                                   | 4.75 % | 5.01 % | 4.88 % | 5.09 % |
|     | Rate of compensation increase                           | 3.78 % | 4.61 % | 3.00 % | 3.00 % |
|     | Assumptions used to determine net periodic benefit cost |        |        |        |        |
|     | Average discount rate - Service cost                    | 5.23 % | 3.12 % | 5.15 % | 2.84 % |
|     | Average discount rate - Interest cost                   | 4.91 % | 2.17 % | 5.09 % | 2.04 % |
|     | Expected return on plan assets                          | 6.86 % | 8.77 % | —      | —      |
|     | Rate of compensation increase                           | 4.61 % | 4.58 % | 3.00 % | 2.91 % |
|     |   |        |        |        |        |

Discount rates for all U.S. and foreign plans were determined using the aforementioned spot rate methodology for 2023 and 2022. Aside from sovereign bonds used in Mexico, the remaining plans' discount rates were determined using various corporate bonds and by matching our projected benefit obligation payment stream to current yields on high quality bonds.

The expected return on assets for the 2023 net periodic pension cost was determined by multiplying the expected returns of each asset class (based on capital market expectations) by the expected percentage of the total portfolio invested in that asset class. A total return was determined by summing the expected returns over all asset classes.

|                           | Pension Plan A<br>December 3 |       |
|---------------------------|------------------------------|-------|
|                           | 2023                         | 2022  |
| Equity securities         | 58 %                         | 56 %  |
| Fixed income securities   | 30                           | 26    |
| Pooled investment funds   | 9                            | 15    |
| Cash and cash equivalents | 2                            | 2     |
| Insurance contracts       | 1                            | 1     |
| Total                     | 100 %                        | 100 % |

The overall objective of our pension investment strategy is to earn a rate of return over time to satisfy the benefit obligations of the pension plans and to maintain sufficient liquidity to pay benefits and meet other cash requirements of our pension funds. Investment policies for our primary U.S. pension plan are determined by the plan's Investment Committee and set forth in the plan's investment policy. Asset managers are granted discretion for determining sector mix, selecting securities and timing transactions, subject to the guidelines of the investment policy. An aggressive, flexible management of the portfolio is permitted and encouraged, with shifts of emphasis among equities, fixed income securities and cash equivalents at the discretion of each manager. No target asset allocations are set forth in the investment policy. For our non-U.S. pension plans, our investment objective is generally met through the use of pooled investment funds and insurance contracts.

The fair values of the Company's pension plan assets are determined using NAV as a practical expedient, or by information categorized in the fair value hierarchy level based on the inputs used to determine fair value, as further discussed in Note 19—Fair Value Measurements.

The fair values at December 31, 2023, were as follows:

|                           |               |               | Fair Value |  |    |  |    |       |
|---------------------------|---------------|---------------|------------|--|----|--|----|-------|
| (In thousands)            | Total         | NAV           |            | Quoted Prices       in Active     Significant       Markets for     Observable       Identical Assets     Inputs       (Level 1)     (Level 2) |    | Significant<br>Unobservable<br>Inputs<br>(Level 3) |    |       |
| Equity securities         | \$<br>327,699 | \$<br>45,441  | \$         | 282,258  | \$ |  | \$ |       |
| Fixed income securities   | 169,321       | —             |            | 94,706   |    | 74,615   |    |       |
| Pooled investment funds   | 50,553        | 50,553        |            | —  |    | _  |    |       |
| Cash and cash equivalents | 10,254        | 8,645         |            | 1,609  |    | _  |    | _     |
| Insurance contracts       | 5,622         | —             |            | —  |    | —  |    | 5,622 |
| Total                     | \$<br>563,449 | \$<br>104,639 | \$         | 378,573  | \$ | 74,615   | \$ | 5,622 |

The fair values of the Company's pension plan assets at December 31, 2022, were as follows:

|                           |               |               | Fair Value |  |    |  |    |  |  |
|---------------------------|---------------|---------------|------------|--|----|--|----|--|--|
| (In thousands)            | Total         | NAV           |            | Quoted Prices<br>in Active<br>Markets for<br>Identical Assets<br>(Level 1) |    | Significant<br>Observable<br>Inputs<br>(Level 2) |    | Significant<br>Unobservable<br>Inputs<br>(Level 3) |  |
| Equity securities         | \$<br>288,006 | \$<br>44,583  | \$         | 243,423  | \$ | _  | \$ | —  |  |
| Fixed income securities   | 132,659       | _             |            | 63,522   |    | 69,137   |    | _  |  |
| Pooled investment funds   | 79,853        | 79,853        |            | —  |    |  |    |  |  |
| Cash and cash equivalents | 9,246         | 7,954         |            | 1,292  |    |  |    | —  |  |
| Insurance contracts       | 4,454         | —             |            | —  |    | —  |    | 4,454  |  |
| Total                     | \$<br>514,218 | \$<br>132,390 | \$         | 308,237  | \$ | 69,137   | \$ | 4,454  |  |



Equity securities consist primarily of publicly traded U.S. and non-U.S. common stocks. Equities are valued at closing prices reported on the listing stock exchange.

Fixed income securities consist primarily of U.S. government and agency bonds and U.S. corporate bonds. Fixed income securities are valued at closing prices reported in active markets or based on yields currently available on comparable securities of issuers with similar credit ratings. When quoted prices are not available for identical or similar bonds, the bond is valued under a discounted cash flow approach that maximizes observable inputs, such as current yields of similar instruments, and may include adjustments, for certain risks that may not be observable, such as credit and liquidity risks.

A financial instrument's categorization within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. Pooled investment funds consist of mutual and collective investment funds that invest primarily in publicly traded equity and fixed income securities. Pooled investment funds are valued using the NAV provided by the administrator of the fund. The NAV is based on the value of the underlying assets owned by the fund, minus its liabilities, divided by the number of shares outstanding. The underlying securities are generally valued at closing prices reported in active markets, quoted prices of similar securities, or discounted cash flows approach that maximizes observable inputs such as current value measurement at the reporting date. These investments are not classified in the fair value hierarchy in accordance with guidance in ASU 2015-07.

Insurance contracts are valued in accordance with the terms of the applicable collective pension contract. The fair value of the plan assets equals the discounted value of the expected cash flows of the accrued pensions which are guaranteed by the counterparty insurer.

Cash equivalents consist primarily of money market and similar temporary investment funds. Cash equivalents are valued at closing prices reported in active markets.

The preceding methods may produce fair value measurements that are not indicative of net realizable value or reflective of future fair values. Although we believe the valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The following table presents a reconciliation of Level 3 assets:

| (In thousands)                           | nsurance<br>Contracts |
|--|-----------------------|
| Balance January 1, 2022                  | \$<br>4,211           |
| Net realized and unrealized gains        | (119)                 |
| Net purchases, issuances and settlements | 362                   |
| Balance December 31, 2022                | <br>4,454             |
| Net realized and unrealized gains        | 208                   |
| Net purchases, issuances and settlements | 960                   |
| Balance December 31, 2023                | \$<br>5,622           |

The following table presents amounts related to Level 3 assets recognized in accumulated other comprehensive loss:

| (In thousands)             | Insurance<br>Contracts |
|----------------------------|------------------------|
| Net actuarial losses       | \$<br>(178)            |
| Prior service cost         | 490                    |
| Total (before tax effects) | \$<br>312              |

We expect to make net contributions of \$5 million to our pension plans in 2024, which are primarily associated with statutorily required plans in the International reporting segment.

For the 2023 beginning of the year measurement purposes (net periodic benefit expense), a 6.5% increase in the costs of covered health care benefits was assumed, decreasing by 0.2% for each successive year to 4.4% in 2032 and thereafter. For the 2023 end of the year measurement purposes (benefit obligation), a 6.7% increase in the costs of covered health care benefits was assumed, decreasing by approximately 0.2% for each successive year to 4.4% in 2033 and thereafter.

Expense for defined contribution pension plans was \$13.4 million in 2023, \$12.6 million in 2022 and \$11.7 million in 2021.

Estimated pension benefits to be paid under our defined benefit pension plans during the next five years are \$31.6 million in 2024, \$31.3 million in 2025, \$31.7 million in 2026, \$32.2 million in 2027 and \$32.8 million in 2028, and an aggregated \$171.7 million for the five years thereafter. Estimated other post-retirement benefits to be paid during the next five years are \$2.2 million in 2024, \$1.9 million in 2025, \$1.9 million in 2026, \$2.0 million in 2027, \$1.9 million in 2028, and an aggregated \$9.0 million for the five years thereafter.

### Note 16—Other Income, Net

|   | Year ended December 31, |      |         |    |        |
|---|-------------------------|------|---------|----|--------|
| (In thousands)  | <br>2023                | 2022 |         |    | 2021   |
| Components of net periodic benefit income other than service cost (Note 15) | \$<br>14,107            | \$   | 22,286  | \$ | 8,321  |
| Interest income   | 8,184                   |      | 4,155   |    | 3,256  |
| Loss on asset write-down and dispositions, net                              | (173)                   |      | (6,290) |    | (788)  |
| Other, net  | (17)                    |      | 905     |    | 793    |
| Total other income, net   | \$<br>22,101            | \$   | 21,056  | \$ | 11,582 |

During the years ended December 31, 2023, 2022 and 2021, we recognized \$8.2 million, \$4.2 million and \$3.3 million of other income, respectively, related to interest earned on cash balances, short-term investments and notes receivable from insurance companies. The short-term investments and notes receivables from insurance companies were divested as of January 5, 2023. Please refer to Note 20—Contingencies for further discussion on the Company's notes receivables from insurance companies.

#### Note 17—Leases

As a lessee, we have various operating lease agreements primarily related to real estate, vehicles and office and plant equipment. The components of lease expense were as follows:

|  | Year Ended December 31, |                   |    |      |        |  |  |  |
|--|-------------------------|-------------------|----|------|--------|--|--|--|
| (In millions, except percentage and year amounts)                            |                         | 2023              |    |      |        |  |  |  |
| Lease cost:  |                         |                   |    |      |        |  |  |  |
| Operating lease cost recognized as rent expense                              | \$                      | 12.0              | \$ |      | 15.0   |  |  |  |
| Total lease cost   | \$                      | 12.0              | \$ |      | 15.0   |  |  |  |
|  |                         | Other Information |    |      |        |  |  |  |
| Cash paid for amounts included in the measurement of lease liabilities:      |                         |                   |    |      |        |  |  |  |
| Operating cash flows related to operating leases                             | \$                      | 11.8              | \$ |      | 14.9   |  |  |  |
| Non-cash other information:  |                         |                   |    |      |        |  |  |  |
| Right-of-use assets obtained in exchange for new operating lease liabilities | \$                      | 19.3              | \$ |      | 6.4    |  |  |  |
|  |                         | December 31,      |    |      |        |  |  |  |
|  |                         | 2023              |    | 2022 |        |  |  |  |
| Weighted-average remaining lease term (in years):                            |                         |                   |    |      |        |  |  |  |
| Operating leases   |                         | 13                |    |      | 14     |  |  |  |
| Weighted-average discount rate:  |                         |                   |    |      |        |  |  |  |
| Operating leases   |                         | 3.37 %            |    |      | 2.66 % |  |  |  |

Rent expense was \$12.0 million, \$15.0 million and \$14.2 million in 2023, 2022 and 2021, respectively. We did not have any lease transactions with related parties. We did not have any significant leases not yet commenced.



## At December 31, 2023, future lease payments under operating leases were as follows:

| (In millions)  | Operating                             |      |  |  |  |
|--|---------------------------------------|------|--|--|--|
|  |                                       |      |  |  |  |
| 2024   | \$                                    | 11.1 |  |  |  |
| 2025   |                                       | 9.5  |  |  |  |
| 2026   |                                       | 7.9  |  |  |  |
| 2027   |                                       | 6.4  |  |  |  |
| 2028   |                                       | 5.5  |  |  |  |
| After 2028   |                                       | 23.5 |  |  |  |
|  | \$                                    | 63.9 |  |  |  |
| Less: Imputed interest   |                                       | 9.9  |  |  |  |
| Present value of operating lease liabilities                                 |                                       | 54.0 |  |  |  |
| Less: Current portion operating lease liabilities <sup>(a)</sup>             |                                       | 9.5  |  |  |  |
| Noncurrent operating lease liabilities                                       | \$                                    | 44.5 |  |  |  |
| (a) Included in Other current liabilities on the Consolidated Palance Sheets | · · · · · · · · · · · · · · · · · · · |      |  |  |  |

<sup>(a)</sup> Included in Other current liabilities on the Consolidated Balance Sheets.

### Note 18—Derivative Financial Instruments

As part of our currency exchange rate risk management strategy, we enter into certain derivative foreign currency forward contracts that do not meet the U.S. GAAP criteria for hedge accounting but have the impact of partially offsetting certain foreign currency exposures. We account for these forward contracts at fair value and report the related gains or losses in currency exchange losses, net, in the Consolidated Statements of Income. At December 31, 2023, the notional amount of open forward contracts was \$110.9 million and there were no unrealized gains/losses on these contracts. All open forward contracts will mature during the first quarter of 2024.

The following table presents the Consolidated Balance Sheets location and fair value of assets and liabilities associated with derivative financial instruments:

|   | December 31, |       |    |      |
|---|--------------|-------|----|------|
| (In thousands)  | 2023         |       |    | 2022 |
| Derivatives not designated as hedging instruments:                    |              |       |    |      |
| Foreign exchange contracts: prepaid expenses and other current assets | \$           | 2,210 | \$ | 724  |
| Foreign exchange contracts: other current liabilities                 | \$           | 242   | \$ | 85   |

The following table presents the Consolidated Statements of Income and Consolidated Statements of Cash Flows location and impact of derivative financial instruments:

|   |          | Year ei<br>Decemb |    |       |
|---|----------|-------------------|----|-------|
|   | 2023 202 |                   |    | 22    |
| Derivatives not designated as hedging instruments:        |          |                   |    |       |
| Foreign exchange contracts: currency exchange losses, net | \$       | (398)             | \$ | 6,656 |

### Note 19—Fair Value Measurements

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value hierarchy consists of three broad levels, which gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy are:

Level 1-Observable inputs that reflect unadjusted quoted prices for identical assets or liabilities in active markets.

Level 2—Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

Level 3—Unobservable inputs for the asset or liability.

The valuation methodologies we used to measure financial assets and liabilities were limited to the pension plan assets and the derivative financial instruments described in Note 15—Pensions and Other Post-retirement Benefits and Note 18—Derivative Financial Instruments, respectively. See Note 15 for the fair value hierarchy classification of pension plan assets. We estimate the fair value of the derivative financial instruments, consisting of foreign currency forward contracts, based upon valuation models with inputs that generally can be verified by observable market conditions and do not involve significant management judgment. Accordingly, the fair values of the derivative financial instruments are classified within Level 2 of the fair value hierarchy. With the exception of our investments in marketable securities and fixed rate long-term debt both as disclosed below, we believe that the reported carrying amounts of our remaining financial assets and liabilities approximate their fair values.

Our investments in available-for-sale marketable securities, primarily fixed income, were owed by our now-divested subsidiary MSA LLC and were part of our MSA LLC divestiture as described in Note 20—Contingencies. Prior to the divestiture, these investments were valued at fair value using quoted market prices for similar securities or pricing models. Accordingly, the fair values of the investments were classified within Level 2 of the fair value hierarchy. The amortized cost basis of our investments was \$9.9 million as of December 31, 2022. The fair value of our investments was \$9.9 million as of December 31, 2022, which was reported in Investments, short-term in the accompanying Consolidated Balance Sheets. Prior to the divestiture, changes in fair value were recorded in Other comprehensive income (loss), net of tax. No impairment losses relating to these securities occurred during the year ended December 31, 2023.

The reported carrying amount of fixed rate long-term debt, including the current portion of long-term debt, was \$312.2 million and \$266.5 million at December 31, 2023, and 2022, respectively. The fair value of this debt was \$278.7 million and \$218.3 million at December 31, 2023, and 2022, respectively. The fair value of this debt was determined using Level 2 inputs by evaluating similarly rated companies with publicly traded bonds where available or current borrowing rates available for financings with similar terms and maturities.

#### Note 20—Contingencies

#### **Product liability**

The Company and its subsidiaries face an inherent business risk of exposure to product liability claims arising from the alleged failure of our products to prevent the types of personal injury or death against which they are designed to protect. Product liability claims are categorized as either single incident or cumulative trauma.

Single incident product liability claims. Single incident product liability claims involve incidents of short duration that are typically known when they occur and involve observable injuries, which provide an objective basis for quantifying damages. Management has established reserves for the single incident product liability claims of its various subsidiaries, including, asserted single incident product liability claims and incurred but not reported ("IBNR") single incident claims. To determine the reserves, Management makes reasonable estimates of losses for single incident claims based on the number and characteristics of asserted claims, historical experience, sales volumes, expected settlement costs, and other relevant information. The reserve for single incident product liability claims was \$1.3 million and \$1.4 million at December 31, 2023 and December 31, 2022, respectively. Single incident product liability expense was nominal for the three years ended December 31, 2023, 2022 and 2021. Single incident product liability exposures are evaluated on an annual basis, or more frequently if changing circumstances warrant. Adjustments are made to the reserve as appropriate. The reserve has not been discounted to present value and does not include future amounts which will be spent to defend the claims.



*Cumulative trauma product liability claims.* Cumulative trauma product liability claims involve alleged exposures to harmful substances (e.g., silica, asbestos and coal dust) that occurred years ago and may have developed over long periods of time into diseases such as silicosis, asbestosis, mesothelioma, or coal worker's pneumoconiosis. A former subsidiary of the Company, MSA LLC, which was divested as described below, has been named as a defendant in various lawsuits related to such claims. These lawsuits mainly involve respiratory protection products allegedly manufactured and sold by MSA LLC or its predecessors.

Management previously established a reserve for MSA LLC's potential exposure to cumulative trauma product liability claims. Prior to its divestiture, MSA LLC's total cumulative trauma product liability reserve was \$395.1 million, including \$13.4 million for claims settled but not yet paid and related defense costs, as of December 31, 2022. The reserve included estimated amounts related to asserted and IBNR asbestos, silica, and coal dust claims expected to be resolved through the year 2075. The reserve was not discounted to present value and did not include future amounts which will be spent to defend the claims. Defense costs were recognized in the Consolidated Statements of Income as incurred.

At December 31, 2022, \$65.1 million of the total reserve for cumulative trauma product liability claims was recorded in the Insurance and product liability line within other current liabilities in the Consolidated Balance Sheets and the remainder, \$330.0 million, was recorded in the Product liability and other noncurrent liabilities line.

Prior to the divestiture, MSA LLC's cumulative trauma product liability reserve was based upon an estimate of MSA LLC's current and potential future liability for cumulative trauma product liability claims, in accordance with applicable accounting principles. See further discussion on the process and assumptions used to derive this estimate in Note 20—

Contingencies of the consolidated financial statements in Part II Item 8 of MSA's Form 10-K for the year ended December 31, 2022.

On January 5, 2023, the Company entered into a membership interest purchase agreement (the "Purchase Agreement") with Sag Main Holdings, LLC (the "Buyer"). The Buyer is a joint venture between R&Q Insurance Holdings Ltd. ("R&Q") and Obra Capital, Inc. ("Obra"). Under the Purchase Agreement, on January 5, 2023, the Company transferred to the Buyer all of the issued and outstanding limited liability company interests of MSA LLC (the "Sale"). In connection with the closing, the Company contributed \$341.2 million in cash and cash equivalents, while R&Q and Obra contributed an additional \$35.0 million.

As MSA LLC was the obligor for the claims to which the Company's legacy cumulative trauma product liability reserves and the policyholder of the related insurance assets, the rights and obligations related to these items remained with MSA LLC when it transferred to the Buyer's ownership pursuant to the Purchase Agreement. In addition, pursuant to the Purchase Agreement, the Buyer and MSA LLC have agreed to indemnify the Company and its affiliates for legacy cumulative trauma product liabilities and other product liabilities, and a subsidiary of the Company has agreed to indemnify MSA LLC for all other historical liabilities of MSA LLC. This indemnification is not subject to any cap or time limitation. In connection with the sale, the Company and its Board of Directors received a solvency opinion from an independent advisory firm that MSA LLC was solvent and adequately capitalized after giving effect to the transaction.

Following the completion of the sale and the transfer of MSA LLC to the Buyer, the Company no longer has any obligation with respect to pending and future cumulative trauma product liability claims relating to these matters. As such, all legacy cumulative trauma product liability reserves, related insurance assets, and associated deferred tax assets of the divested subsidiary were derecognized from our balance sheet and the Company incurred a taxeffected loss on the divestiture of MSA LLC of \$199.6 million, including transaction related costs of \$5.6 million. R&Q and Obra's joint venture has assumed management of the divested subsidiary, including the management of its claims and associated assets. Below is a summary of the impact of the divestiture of MSA LLC on our Consolidated Statements of Income for the year ended December 31, 2023:

| (In millions)  | Year Ended December 31, 2023 |
|--|------------------------------|
| Cash and cash equivalents  | \$ (341.2)                   |
| Current insurance receivables  | (17.3)                       |
| Notes receivable, insurance companies  | (5.9)                        |
| Noncurrent insurance receivables   | (110.3)                      |
| Notes receivable, insurance companies, noncurrent  | (38.7)                       |
| Current product liability  | 65.1                         |
| Noncurrent product liability   | 324.7                        |
| Loss on divestiture of MSA LLC before transaction costs                                    | (123.6)                      |
| Transaction costs  | (5.6)                        |
| Loss on divestiture of MSA LLC   | (129.2)                      |
| Income tax expense <sup>(a)</sup>  | (70.4)                       |
| Tax-effected loss on divestiture of MSA LLC  | \$ (199.6)                   |
| (a) Delete d to the service of the formed term exact related to much set liebility measure |                              |

<sup>(a)</sup> Related to the write-off of deferred tax asset related to product liability reserve

#### Insurance Receivable and Notes Receivable, Insurance Companies

Many years ago, MSA LLC purchased insurance policies from various insurance carriers that, subject to common contract exclusions, provided coverage for cumulative trauma product liability losses (the "Occurrence-Based Policies").

Prior to the divestiture of MSA LLC, when adjustments were made to amounts recorded in the cumulative trauma product liability reserve, we calculated amounts due to be reimbursed pursuant to the terms of the negotiated Coverage-In-Place Agreements, including cumulative trauma product liability losses and related defense costs, and we recorded the amounts probable of reimbursement as insurance receivables.

Insurance receivables at December 31, 2022 totaled \$127.6 million, of which \$17.3 million was reported in Prepaid expenses and other current assets in the Consolidated Balance Sheets and \$110.3 million was reported in Insurance receivables and other noncurrent assets.

A summary of insurance receivables balance and activity related to cumulative trauma product liability losses and divestiture of MSA LLC is as follows:

| (In millions)               | 2  | 023     | 2022        |
|-----------------------------|----|---------|-------------|
| Balance beginning of period | \$ | 127.6   | \$<br>130.2 |
| Divestiture of MSA LLC      |    | (127.6) | _           |
| Additions                   |    | —       | 1.8         |
| Collections                 |    | —       | (4.4)       |
| Balance end of period       | \$ | _       | \$<br>127.6 |

Prior to the divestiture of MSA LLC, notes receivable from insurance companies at December 31, 2022 totaled \$44.6 million of which \$5.9 million was reported in Notes receivable, insurance companies, current in the Consolidated Balance Sheets and \$38.7 million was reported in Notes receivable, insurance companies, noncurrent.

A summary of notes receivables from insurance companies balance is as follows:

| (In millions)               |    | 2023   | 2022 |       |
|-----------------------------|----|--------|------|-------|
| Balance beginning of period | \$ | 44.6   | \$   | 48.5  |
| Divestiture of MSA LLC      |    | (44.6) |      | —     |
| Additions                   |    |        |      | 1.2   |
| Collections                 |    | —      |      | (5.1) |
| Balance end of period       | \$ | _      | \$   | 44.6  |

### **Other Litigation**

Globe, a subsidiary of the Company, is defending claims in which plaintiffs assert that certain products allegedly containing per- and polyfluoroalkyl substances ("PFAS") have caused harm, including injury or health issues. PFAS are a large class of substances that are widely used in everyday products. Specifically, Globe builds firefighter turnout gear from technical fabrics sourced from a small pool of specialty textile manufacturers. These protective fabrics have been tested and certified to meet current National Fire Protection Association safety standards, and some of them as supplied to Globe contain or historically have contained PFAS to achieve performance characteristics such as water, oil, or chemical resistance.

Globe believes it has valid defenses to these claims. These matters are at a very early stage with numerous factual and legal issues to be resolved. Defense costs relating to these lawsuits are recognized in the Consolidated Statements of Income as incurred. Globe is also pursuing insurance coverage and indemnification related to the lawsuits. As of February 7, 2024, Globe was named as a defendant in approximately 467 lawsuits comprised of about 10,578 claims, plus one action filed on behalf of a putative class of Florida firefighters and certain of their dependents. Certain of these lawsuits include MSA Safety Inc. or other Globe affiliates as defendants.

MSA LLC is also a defendant in a number of PFAS lawsuits and the Buyer assumed responsibility for these and any similar future claims specific to MSA LLC in connection with the divestiture on January 5, 2023.

#### **Product Warranty**

The Company provides warranties on certain product sales. Product warranty reserves are established in the same period that revenue from the sale of the related products is recognized, or in the period that a specific issue arises as to the functionality of the Company's product. The determination of such reserves requires the Company to make estimates of product return rates and expected costs to repair or to replace the products under warranty.

The amounts of the reserves are based on established terms and the Company's best estimate of the amounts necessary to settle future and existing claims on products sold as of the balance sheet date. If actual return rates and/or repair and replacement costs differ significantly from estimates, adjustments to recognize additional cost of sales may be required in future periods.

The following table reconciles the changes in the Company's accrued warranty reserve:

|  | December 31, |         |      |          |    |         |  |           |  |         |  |           |  |  |      |
|--|--------------|---------|------|----------|----|---------|--|-----------|--|---------|--|-----------|--|--|------|
| (In thousands)   | 2023         |         | 2022 |          |    | 2022    |  | 2023 2022 |  | 2023 20 |  | 2023 2022 |  |  | 2021 |
| Beginning warranty reserve                             | \$           | 15,230  | \$   | 12,423   | \$ | 11,428  |  |           |  |         |  |           |  |  |      |
| Warranty payments                                      |              | (9,794) |      | (10,631) |    | (8,987) |  |           |  |         |  |           |  |  |      |
| Warranty claims  |              | 8,899   |      | 14,544   |    | 10,225  |  |           |  |         |  |           |  |  |      |
| Provision for product warranties and other adjustments |              | (47)    |      | (1,106)  |    | (243)   |  |           |  |         |  |           |  |  |      |
| Ending warranty reserve                                | \$           | 14,288  | \$   | 15,230   | \$ | 12,423  |  |           |  |         |  |           |  |  |      |

Warranty expense for the years ended December 31, 2023, 2022 and 2021 was \$8.9 million, \$13.4 million and \$10.0 million, respectively and is included in Costs of products sold on the Consolidated Statements of Income.

## Note 21—Quarterly Financial Information (Unaudited)

|   | 2023 |           |    |         |    |         |    |         |    |           |
|---|------|-----------|----|---------|----|---------|----|---------|----|-----------|
|   |      | Quarters  |    |         |    |         |    |         |    |           |
| (In thousands, except per share amounts)                  |      | 1st       |    | 2nd     |    | 3rd     |    | 4th     |    | Year      |
| Net sales   | \$   | 398,262   | \$ | 447,299 | \$ | 446,728 | \$ | 495,358 | \$ | 1,787,647 |
| Gross profit  |      | 181,398   |    | 213,796 |    | 218,761 |    | 238,183 |    | 852,138   |
| Net (loss) income attributable to MSA Safety Incorporated |      | (150,173) |    | 67,090  |    | 65,256  |    | 76,410  |    | 58,583    |
|   |      |           |    |         |    |         |    |         |    |           |
| (Loss) earnings per share <sup>(1)</sup>                  |      |           |    |         |    |         |    |         |    |           |
| Basic   | \$   | (3.83)    | \$ | 1.71    | \$ | 1.66    | \$ | 1.94    | \$ | 1.49      |
| Diluted   |      | (3.83)    |    | 1.70    |    | 1.65    |    | 1.93    |    | 1.48      |
|   |      |           |    |         |    |         |    |         |    |           |

|  | 2022     |         |    |         |    |         |               |    |           |
|--|----------|---------|----|---------|----|---------|---------------|----|-----------|
|  | Quarters |         |    |         |    |         |               |    |           |
| (In thousands, except earnings per share)          |          | 1st     |    | 2nd     |    | 3rd     | 4th           |    | Year      |
| Net sales  | \$       | 330,692 | \$ | 372,313 | \$ | 381,694 | \$<br>443,254 | \$ | 1,527,953 |
| Gross profit                                       |          | 142,784 |    | 164,400 |    | 169,395 | 197,252       |    | 673,831   |
| Net income attributable to MSA Safety Incorporated |          | 35,542  |    | 47,693  |    | 44,906  | 51,489        |    | 179,630   |
|  |          |         |    |         |    |         |               |    |           |
| Earnings per share <sup>(1)</sup>                  |          |         |    |         |    |         |               |    |           |
| Basic  | \$       | 0.90    | \$ | 1.21    | \$ | 1.15    | \$<br>1.31    | \$ | 4.58      |
| Diluted  |          | 0.90    |    | 1.21    |    | 1.14    | 1.31          |    | 4.56      |

<sup>(1)</sup> Per share amounts are calculated independently for each period presented; therefore, the sum of the quarterly per share amounts may not equal the per share amounts for the year.

### Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

### Item 9A. Controls and Procedures

(a) *Evaluation of disclosure controls and procedures*. Based on their evaluation as of the end of the period covered by this Form 10-K, the Company's principal executive officer and principal financial officer have concluded that the Company's disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934 (the "Exchange Act")) are effective to ensure that information required to be disclosed by the Company in reports that it files or submits under the Exchange Act is (i) recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms and (ii) accumulated and communicated to our management, including the principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

(b) *Changes in internal control.* There were no changes in the Company's internal control over financial reporting that occurred during the Company's most recent fiscal quarter, that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

See Item 8. Financial Statements and Supplementary Data—"Management's Report on Internal Control Over Financial Reporting" and "Report of Independent Registered Public Accounting Firm."

#### Item 9B. Other Information

During the three months ended December 31, 2023, no director or officer of the Company, nor the Company itself, adopted or terminated a "Rule 10b5-1 trading arrangement" or "non-Rule 10b5-1 trading arrangement," as each term is defined in Item 408(a) of Regulation S-K.

### Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

None.

### PART III

#### Item 10. Directors, Executive Officers and Corporate Governance

#### Item 11. Executive Compensation

#### Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

#### Item 13. Certain Relationships and Related Transactions, and Director Independence

#### Item 14. Principal Accountant Fees and Services

With respect to this Part III, incorporated by reference herein pursuant to Rule 12b—23 are (1) "Election of Directors," (2) "Executive Compensation," (3) "Other Information Concerning the Board of Directors," (4) "Stock Ownership," and (5) "Selection of Independent Registered Public Accounting Firm," appearing in the Proxy Statement filed pursuant to Regulation 14A in connection with the registrant's Annual Meeting of Shareholders to be held on May 12, 2024. The information appearing in such Proxy Statement under the caption "Audit Committee Report" and the other information appearing in such Proxy Statement and not specifically incorporated by reference herein is not incorporated herein. As to Item 10 above, also see the information reported in Part I of this Form 10-K, under the caption "Information about our Executive Officers," which is incorporated herein by reference. As to Item 10 above, the Company has adopted a Code of Ethics applicable to its principal executive officer, principal financial officer and principal accounting officer and other Company officials. The text of the Code of Ethics is available on the Company's website at *www.MSAsafety.com*. Any amendment to, or waiver of, a required provision of the Code of Ethics that applies to the Company's principal executive, financial officer will also be posted on the Company's Internet site at that address.

As to Item 12 above, the following table sets forth information as of December 31, 2023 concerning common stock issuable under the Company's equity compensation plans.

| Plan Category  | Number of securities<br>to be issued upon<br>exercise of<br>outstanding<br>options,<br>warrants and rights<br>(a) | Weighted average<br>exercise price of<br>putstanding options,<br>warrants and rights<br>(b) | Number of securities<br>remaining available<br>for future issuance<br>under equity<br>compensation plans<br>(excluding securities<br>reflected in column (a))<br>(c) |
|--|---|---|--|
| Equity compensation plans approved by security holders     | 26,536  | \$<br>45.95   | 1,937,846 *  |
| Equity compensation plans not approved by security holders | None  | —   | None   |
| Total  | 26,536  | 45.95   | 1,937,846  |

\*Includes 1,869,407 shares available for issuance under the Amended and Restated 2023 Management Equity Incentive Plan and 68,439 shares available for issuance under the 2017 Non-Employee Directors' Equity Incentive Plan.

### PART IV

## Item 15. Exhibits and Financial Statement Schedules

(a) 1. Financial Statements and Report of Independent Registered Public Accounting Firm (see Part II, Item 8 of this Form 10-K).

The following information is filed as part of this Form 10-K.

|  | Page            |
|--|-----------------|
| Management's Report on Responsibility for Financial Reporting and Management's Report on Internal Control Over Financial Reporting   | <u>38</u>       |
| Report of Independent Registered Public Accounting Firm (PCAOB ID: 42)   | <u>39</u>       |
| Consolidated Statements of Income-three years ended December 31, 2023  | <u>42</u>       |
| Consolidated Statements of Comprehensive Income-three years ended December 31, 2023  | <u>43</u>       |
| Consolidated Balance Sheets—December 31, 2023 and 2022   | <u>44</u>       |
| Consolidated Statements of Cash Flows-three years ended December 31, 2023  | <u>45</u>       |
| Consolidated Statements of Changes in Retained Earnings and Accumulated Other Comprehensive Income—three years ended December 31, 2023<br>Notes to Consolidated Financial Statements | <u>46</u><br>47 |

(a) 2. The following additional financial information for the three years ended December 31, 2023 is filed with the report and should be read in conjunction with the above financial statements:

Schedule II-Valuation and Qualifying Accounts

All other schedules are omitted because they are not applicable, not material or the required information is shown in the consolidated financial statements and consolidated notes to the financial statements listed above.

(a) 3. Exhibits

Several of the following exhibits are incorporated herein by reference under Rule 12b-32 of the Securities Exchange Act of 1934, as amended, as indicated next to the name of the exhibit. Several other instruments, which would otherwise be required to be listed below, have not been so listed because those instruments do not authorize securities in an amount that exceeds 10% of the total assets of the registrant and its subsidiaries on a consolidated basis. The registrant agrees to furnish a copy of any instrument that was so omitted on that basis to the Commission upon request.

|  | 3( | i) | Amended and restated Articles of Incor | poration, filed as Exhibit 3.1 to F | orm 8-K on March 7, 2014, is inco | rporated herein by reference. |
|--|----|----|--|-------------------------------------|-----------------------------------|-------------------------------|
|--|----|----|--|-------------------------------------|-----------------------------------|-------------------------------|

- 3(ii) Amended and restated By-laws of the registrant, filed as Exhibit 3.1 to Form 8-K on November 2, 2023, is incorporated herein by reference.
- AdditionA Description of MSA Safety Incorporated Securities Registered under Section 12 of the Securities Exchange Act of 1934, as amended, filed as<br/>Exhibit 4(d) to Form 10-K on February 20, 2020, is incorporated herein by reference.
- 10(a)\* MSA Safety Incorporated Amended and Restated 2016 Management Equity Incentive Plan, filed as Appendix A to the registrant's definitive proxy statement dated March 31, 2016, is incorporated herein by reference.
- 10(b)\* Retirement Plan for Directors, as amended effective April 1, 2001, filed as Exhibit 10(a) to Form 10-Q on May 10, 2006, is incorporated herein by reference.
- 10(c)\* Supplemental Pension Plan as of May 5, 1998, filed as Exhibit 10(d) to Form 10-Q on August 12, 2003, is incorporated herein by reference.
- 10(d)\* Supplemental Pension Plan as amended and restated effective January 1, 2005, filed as Exhibit 10.3 to Form 10-Q on April 30, 2009, is incorporated herein by reference.
- 10(e)\* <u>2017 Non-Employee Directors' Equity Incentive Plan, filed as Exhibit A to the registrant's definitive proxy statement dated April 7, 2017, is incorporated herein by reference.</u>
- 10(f)\* Executive Insurance Program as Amended and Restated as of January 1, 2006, filed as Exhibit 10(a) to Form 10-Q on August 7, 2007, is incorporated herein by reference.

| 10(g)* | MSA Safety, Inc. Executive Incentive Plan as of January 1, 2023, is filed herewith.   |
|--------|---|
| 10(h)* | Supplemental Executive Retirement Plan, effective January 1, 2008, filed as Exhibit 10.2 to Form 10-Q on April 30, 2009, is incorporated herein by reference.                               |
| 10(i)* | Form of Change-in-Control Severance Agreement between the registrant and its executive officers, filed as Exhibit 10.1 to Form 10-Q on April 30, 2009, is incorporated herein by reference. |

- 10(j)\* 2003 Supplemental Savings Plan, effective January 1, 2003, filed as Exhibit 10(k) to Form 10-K on February 24, 2014, is incorporated herein by reference.
- 10(k)\* 2005 Supplemental Savings Plan, as amended and restated, effective June 1, 2022, is incorporated herein by reference.
- 10(1)\* MSA Safety Incorporated Amended and Restated 2023 Management Equity Incentive Plan, filed as Appendix A to the registrant's definitive proxy statement dated March 30, 2023, is incorporated herein by reference.
- 10(m) Fourth Amended and Restated Credit Agreement, dated as of May 24, 2021, by and among MSA Safety Incorporated, MSA UK Holdings Limited, MSA Great Britain Holdings Limited, MSA International Holdings B.V., as borrowers, various MSA subsidiaries, as guarantors, various financial institutions, as lenders, and PNC Bank National Association, as administrative agent, filed as Exhibit 10.1 to Form 8-K/A on May 26, 2021, is incorporated herein by reference.
- 10(n) Third Amended and Restated Multi-Currency Note Purchase and Private Shelf Agreement dated July 1, 2021 with PGIM, Inc. and the noteholders party thereto, filed as Exhibit 10.1 to Form 8-K/A on July 16, 2021, is incorporated herein by reference.
- 10(o) Second Amended and Restated Master Note Facility dated as of July 1, 2021 with NYL Investors LLC and the noteholders party thereto, filed as Exhibit 10.2 to Form 8-K/A on July 16, 2021, is incorporated herein by reference.
- 10(p) Agreement and Plan of Merger, dated May 23, 2021, by and among MSA Advanced Detection, LLC, a Pennsylvania limited liability company, Cardinal Merger Subsidiary, Inc., a Delaware corporation, MSA Safety Incorporated, a Pennsylvania corporation, Viking Topco, Inc., a Delaware corporation, and Laurel Solutions Holdings LLC, a Delaware limited liability company, solely in its capacity as a representative of the stockholders of Viking Topco, Inc., filed as Exhibit 10.1 to Form 8-K on May 24, 2021, is incorporated herein by reference.
- 10(q) <u>Membership Interest Purchase Agreement, dated January 5, 2023, by and among MSA Worldwide, LLC, a Pennsylvania limited liability company, Mine Safety Appliances Company, LLC, a Pennsylvania limited liability company, Sag Main Holdings, LLC, a Delaware limited liability company, and MSA Safety Jacksonville Manufacturing LLC, a Pennsylvania limited liability company, filed as Exhibit 10.1 to Form 8-K on January 6, 2023, is incorporated by reference.</u>
- 10(r) Credit Agreement, dated January 5, 2023, by and among the Company, as borrower, various Company subsidiaries, as guarantors, various financial institutions, as lenders, and PNC Bank, National Association, as administrative agent, filed as Exhibit 10.2 to Form 8-K on January 6, 2023, is incorporated herein by reference.
- 10(s) <u>Amendments to Fourth Amended and Restated Credit Agreement, dated May 24, 2021, as amended, among the Company, the other</u> Borrowers party thereto, the Guarantors party thereto, the Lenders party thereto and PNC Bank, National Association, as Administrative Agent, filed as Exhibit 10.3 to Form 8-K on January 6, 2023, is incorporated herein by reference.
- 10(t) Amendment No. 1 and Consent to Third Amended and Restated Multicurrency Note Purchase and Private Shelf Agreement, dated as of December 30, 2022, among MSA Safety Incorporated, each of the Guarantors signatory hereto, PGIM, INC, and each of the holders of Notes, filed as Exhibit 10.4 to Form 8-K on January 6, 2023, is incorporated herein by reference.
- 10(u) Amendment No. 1 and Consent to Second Amended and Restated Master Note Facility, dated as of December 30, 2022, among MSA Safety. Incorporated, each of the Guarantors signatory hereto, NYL Investors LLC and each of the holders of Notes, filed as Exhibit 10.5 to Form 8-K on January 6, 2023, is incorporated herein by reference.
- 21 Affiliates of the registrant is filed herewith.
- 23 <u>Consent of Ernst & Young LLP, independent registered public accounting firm is filed herewith.</u>
- 31.1 Certification of Nishan J. Vartanian pursuant to Rule 13a-14(a) is filed herewith.
- 31.2 Certification of Lee B. McChesney pursuant to Rule 13a-14(a) is filed herewith.
- 32 Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. §1350 is filed herewith.

97 MSA Safety Incorporated Mandatory Recoupment Policy is filed herewith.

- 101.INSXBRL Instance Document101.SCHXBRL Taxonomy Extension Schema Document
- 101.CAL XBRL Taxonomy Extension Calculation Linkbase Document
- 101.DEF XBRL Taxonomy Extension Definition Linkbase Document
- 101.LAB XBRL Taxonomy Extension Label Linkbase Document
- 101.PRE XBRL Taxonomy Extension Presentation Linkbase Document

\*The exhibits marked by an asterisk are management contracts or compensatory plans or arrangements.

### Item 16. Form 10-K Summary

None.

## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

## MSA SAFETY INCORPORATED

| February 16, 2024   | Ву  | /s/ NISHAN J. VARTANIAN                                     |  |  |  |  |
|---|---|---|--|--|--|--|
| (Date)  |   | Nishan J. Vartanian<br>Chairman and Chief Executive Officer |  |  |  |  |
| Pursuant to the requirements of the Secur<br>registrant and in the capacities and on the dates<br>Signature |   | gned below by the following persons on behalf of the Date   |  |  |  |  |
| /S/ NISHAN J. VARTANIAN<br>Nishan J. Vartanian  | Chairman and Chief Executive Officer<br>(Principal Executive Officer)   | February 16, 2024   |  |  |  |  |
| /S/ LEE B. MCCHESNEY<br>Lee B. McChesney  | Senior Vice President and Chief Financial Office                        | February 16, 2024   |  |  |  |  |
| /S/ JONATHAN D. BUCK<br>Jonathan D. Buck  | Chief Accounting Officer and Controller (Princip<br>Accounting Officer) | pal February 16, 2024                                       |  |  |  |  |
| /S/ ROBERT A. BRUGGEWORTH<br>Robert A. Bruggeworth  | Director  | February 16, 2024   |  |  |  |  |
| /S/ GREGORY B. JORDAN<br>Gregory B. Jordan  | Director  | February 16, 2024   |  |  |  |  |
| /S/ WILLIAM M. LAMBERT<br>William M. Lambert  | Director  | February 16, 2024   |  |  |  |  |
| /S/ DIANE M. PEARSE<br>Diane M. Pearse  | Director  | February 16, 2024   |  |  |  |  |
| /S/ REBECCA B. ROBERTS<br>Rebecca B. Roberts  | Director  | February 16, 2024   |  |  |  |  |
| /S/ SANDRA PHILLIPS ROGERS<br>Sandra Phillips Rogers  | Director  | February 16, 2024   |  |  |  |  |
| /S/ JOHN T. RYAN III<br>John T. Ryan III  | Director  | February 16, 2024   |  |  |  |  |
| /s/ LUCA SAVI<br>Luca Savi  | Director  | February 16, 2024   |  |  |  |  |
| /S/ WILLIAM R. SPERRY<br>William R. Sperry  | Director  | February 16, 2024   |  |  |  |  |

# MSA SAFETY INCORPORATED VALUATION AND QUALIFYING ACCOUNTS THREE YEARS ENDED DECEMBER 31, 2023

|  |    | 2023   |    | 2022           |    | 2021  |
|--|----|--------|----|----------------|----|-------|
|  |    |        |    | (In thousands) |    |       |
| Allowance for credit loss:             |    |        |    |                |    |       |
| Balance at beginning of year           | \$ | 6,769  | \$ | 5,789          | \$ | 5,344 |
| Additions—                             |    |        |    |                |    |       |
| Charged to costs and expenses          |    | 1,899  |    | 1,253          |    | 1,645 |
| Deductions—                            |    |        |    |                |    |       |
| Deductions from reserves, net $(1)(2)$ |    | 1,603  |    | 273            |    | 1,200 |
| Balance at end of year                 | \$ | 7,065  | \$ | 6,769          | \$ | 5,789 |
| Income tax valuation allowance:        | _  |        |    |                |    |       |
| Balance at beginning of year           | \$ | 10,017 | \$ | 8,812          | \$ | 7,188 |
| Additions—                             |    |        |    |                |    |       |
| Charged to costs and expenses (3)      |    | 2,673  |    | 2,771          |    | 2,575 |
| Deductions—                            |    |        |    |                |    |       |
| Deductions from reserves (3)           |    | 3,019  |    | 1,566          |    | 951   |
| Balance at end of year                 | \$ | 9,671  | \$ | 10,017         | \$ | 8,812 |
|  | 2  |        |    |                |    |       |

(1) Bad debts written off, net of recoveries.

(2) Activity for 2023, 2022 and 2021 includes currency translation gains (losses) of \$1,368, \$202 and \$79, respectively.

(3) Activity for 2023, 2022 and 2021 includes currency translation gains (losses) of \$16, \$622 and \$29, respectively.

### MSA SAFETY, INC. EXECUTIVE INCENTIVE PLAN

### 1. Purposes.

The objectives of the MSA Safety, Inc. Executive Incentive Plan are to attract and retain highly-qualified executives by providing appropriate performance-based short-term incentive awards, to provide a strong financial incentive each year for the excellent performance of each participating executive by making a significant percentage of the executive's total cash compensation dependent upon the level of corporate and individual performance attained for the year, and, by accomplishing those objectives, to increase shareholder value.

### 2. Definitions in Last Section.

For purposes of the Plan, capitalized terms, unless defined where the respective term first appears in the Plan, shall have the meanings given in the last Section hereof.

## 3. Eligibility.

With respect to any Plan Year, all Company executives in the Executive salary ranges and any other employee designated by the Chief Executive Officer of the Company on or before June 30 of a Plan Year are eligible to participate in the Plan.

### 4. Bonuses.

(a) <u>Participant's Bonus Target</u>. The Bonus target is based upon salary at the end of the Plan Year, multiplied by the Participant's Bonus target percentage. Bonus target percentages for the Executive Leadership Team ("ELT") applicable to a specified Plan Year are included in Appendix A, unless modified as provided below. If there are no Bonus target percentage or position-related salary changes during the year, the Participant's Bonus target shall be the dollar amount resulting from multiplying the Participant's salary at the end of the Plan Year by the Bonus target percentage determined. After an ELT Participant's Bonus target has been established for a particular Plan Year, it cannot be changed, except that, in the sole discretion of the Committee or its delegate an ELT Participant's Bonus target can be adjusted if the Participant's position is changed during such Plan Year and/or a Compensation Committee approved adjustment throughout the year. Non-ELT Participants Bonus targets may change throughout the Plan Year, subject to normal salary and compensation adjustment procedures and approvals. Changes to salary levels and/or Bonus targets for any Participant will result in a prorated Bonus calculation, taking into account the portion of the Plan Year spent at each salary and Bonus target combination.

(b) <u>Performance Measures and Performance Goals</u>. For each Plan Year, objective measures of performance will be identified to determine whether a Bonus target is earned in whole or in part. Performance measures may be based on consolidated net income, pre-tax income, earnings before interest and taxes (EBIT), earnings before interest, taxes, depreciation and amortization ("EBITDA"), income from continuing operations, income before extraordinary items, income from continuing operations before extraordinary items, earnings per share, earnings per share growth, return on equity, return on invested capital, return on net assets, revenue, revenue growth, gross margin, operating margin, net margin, cash flow, free cash flow, operating cash flow, working capital, stock price, total shareholder return or other measure adopted by the Committee or its delegate. Other non-financial measures may be used such as safety, product launch timeliness, customer satisfaction, customer service and efficiency, workforce measures such as productivity, diversity, or turnover. Performance criteria based on such performance measures may be based either on the performance of the Company, a subsidiary or subsidiaries, affiliate, department, or business unit, or upon a comparison of such performance with the performance of a peer group of companies, prior performance periods or other measure selected or defined by the Committee.

The Committee or its delegate shall establish goals for each performance measure, and the relative weighting for each performance measure, by position of the Participant, as applicable, in the first quarter of the Plan Year for which the awards may be made. A description of the goals and the performance measure weighting applicable to a specific Plan Year shall be listed in Appendix B and shall be reviewed and approved by the Committee at the beginning of the year and communicated to Participants.

(c) Calculation of Bonus Earned by a Participant. The Committee shall determine the amount of an earned award by measuring performance against the goals for each performance measure independently and then taking the sum of the earned amounts for each performance measure and comparing it to the target performance. Specifically, each performance measure shall be assigned a percentage of the total target award based on its relative weighting among the performance measures.

The threshold and maximum payment levels will be established each year by the Committee and shown on Appendix B of the Plan. The threshold and maximum shall apply individually to each metric. If the performance of an individual metric falls below the threshold, no bonus will be payable for that individual metric. Each metric will be individually compared to the target and if the performance is above target, the bonus will be calculated for each individual metric based on the assigned weighted percent of the total Bonus target. Fifty percent of the Bonus target will be payable at the threshold and 150% of the Bonus target will be payable at the maximum payment level for each individual metric. Payment for performance between threshold and maximum will be calculated with straight-line interpolation between such percentages for performance that is in between threshold and maximum. The Bonus paid to any Participant with respect to any Plan Year shall not exceed 150% of the Participant's Bonus target (excluding any applicable Enhanced Bonus provided in Appendix C) with respect to the Plan Year.

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Modifiers may be identified by the Committee or by the Chief Executive Officer and approved by the Committee. Any such modifier, including the "Enhanced Bonus Program" shall be subject to approval by the Committee on an annual basis and, as applicable to a specific Plan Year, be included as Appendix C of the Plan. In no case can the maximum bonus paid to any individual exceed 200% of the original Bonus target.

(d) <u>Committee Review and Adjustment of Calculation</u>. The Committee shall review the Bonuses calculated pursuant to Sections 4(c) and 4(e) hereof with respect to each Plan Year and, subject to Section 4(e) and the last sentence of Section 4(c) hereof, the Committee may, in its sole discretion, adjust (including increasing, reducing, or eliminating) the amount of any Bonus before making a recommendation to the Board regarding the Bonuses (if any) to be paid with respect to the Plan Year.

### (e) Employment Requirement for Bonus Payment and Exceptions Thereto.

(i) Except as provided in Sections 4(e)(ii) and 4(e)(iii) hereof, and subject to Section 4(g), payment of a Bonus to a particular Participant for a Plan Year shall be made only if, and to the extent that, the foregoing requirements of this Section 4 have been met with respect to the Plan Year and only if the Participant is continuously employed by the Company or one of its Subsidiaries for the entire Plan Year (from the first day of the Plan Year through the last day of the Plan Year).

(ii) If, under circumstances described in this Section 4(e)(ii), a Participant has been employed by the Company (or one of its Subsidiaries) for only part of a Plan Year, a pro-rata Bonus shall be paid to the Participant. The pro-rata Bonus shall be calculated by multiplying the Bonus which would be payable if such employment had been for the entire Plan Year by a fraction, the numerator of which shall be the number of Participant's days of such employment during the Plan Year (except as provided in Section 4(e)(ii)(E) and (F) hereof) and the denominator of which shall be 365. The circumstances under which such a pro-rata Bonus shall become payable with respect to a Plan Year are the following:

(A) the Participant's employment has terminated during the Plan Year under circumstances which qualify the Participant for retirement (including early retirement) under the MSA Pension Plan (or any successor plan thereto);

(B) the Participant has died during the Plan Year during employment with the Company (or one of its Subsidiaries);

(C) the Participant was newly hired by the Company or one of its Subsidiaries during the Plan Year and remained so employed on the last day of the Plan Year;

(D) the individual (not initially a Participant) was already employed by the Company or one of its Subsidiaries on the first day of the Plan Year, but became a Participant later in the Plan Year in connection with a promotion (either by designation by the Chief Executive Officer or by promotion to a position as Executive);

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(E) the individual was eligible for the Plan at the beginning of the Plan Year, but during the Plan Year was transferred to an ineligible class of employees in connection with a demotion or transfer to a new role; in that event the numerator of the fraction used to calculate the pro-rata Bonus shall be the number of days of the Plan Year during which the Participant was eligible for the Plan and actively at work as is determined by the Committee in its sole discretion; and

(F) the Participant was disabled (within the meaning of the Company's long-term disability plan) during part of the Plan Year; in that event the numerator of the fraction used to calculate the pro-rata Bonus shall be the number days of the Plan Year for which the Participant was not approved for and entitled to receive benefits under the Company's long-term disability plan.

(iii) Any Bonuses determined pursuant to this Section 4(e) shall be payable at the time and in the manner specified in Section 4(f).

(f) <u>Time of Payment; Termination for Cause</u>. As soon as practicable after the Plan Year, the following shall be accomplished: (i) the calculation of the Bonuses with respect to a Plan Year pursuant to Sections 4(c) and 4(e) hereof, (ii) the Committee's review of, and recommendation to the Board with respect to, such Bonuses pursuant to Sections 4(d) hereof, and (iii) the action of the Board making a final determination (subject to Section 4(e) and the last sentence of Section 4(c) hereof) as to what Bonuses (if any) shall be paid with respect to the Plan Year. Except as provided in Section 4(g) hereof, all Bonuses to which Participants become entitled with respect to a Plan Year shall be paid in lump sum cash payments as soon as practicable after such Board determination, but not later than the March 15<sup>th</sup> immediately following the Plan Year; *provided, however*, in the event such amount is conditioned upon a separation from service and not compensation the Participant could receive without separating from service, then no such payment shall be made to a Participant who is a "specified employee" under Section 409A of the Code until the first day following the six-month anniversary of the Participant's separation from service. Notwithstanding any of the foregoing provisions of the Plan, if the employment of a Participant has been terminated for cause (as determined in the sole discretion of the Committee prior to the occurrence of any Change in Control) at any time before the Company has paid the Participant's Bonus with respect to a Plan Year, no Bonus shall be paid to the Participant with respect to such Plan Year. For purposes of the Plan, after a Change in Control has occurred, the Committee shall have no power to determine that a termination of a Participant's employment has been made for cause.

(g) <u>Change in Control</u>. Notwithstanding any other provision of the Plan to the contrary, (i) if a Change in Control of the Company shall occur following a Plan Year as to which the actual Bonuses to be paid have been determined (but such Bonuses have not yet been paid), such Bonuses shall be paid immediately in cash, (ii) if a Change in Control shall occur following a Plan Year as to which the actual Bonuses to be paid have not yet been determined, such Bonuses shall be immediately determined and paid in cash, and (iii) if a Change in Control shall occur during a Plan Year as to which Bonuses to be paid have not yet been determined, such Bonuses shall be immediately determined and paid in cash, and (iii) if a Change in Control shall occur during a Plan Year as to which Bonus targets have been established (but the actual Bonuses to be paid have not yet been determined), such Plan Year shall be deemed to have been completed, the target levels of performance set forth under the respective Performance Goals shall be deemed to have been attained, and a pro rata portion of the Bonus so determined for each Participant for such partial Plan Year (based on the number of full and partial months which have elapsed with respect to such Plan Year) shall be paid at the time specified in Section 4(f) in cash to each Participant for whom a Bonus target for such Plan Year was established.

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## 5. Administration.

The Plan shall be administered by the Committee. The Committee shall have the authority in its sole discretion, subject to and not inconsistent with the express provisions of the Plan, to administer the Plan and to exercise all the powers and authorities either specifically granted to it under the Plan or necessary or advisable in the administration of the Plan, including, without limitation, to make adjustments in the Performance Goals in response to changes in applicable laws, regulations, or accounting principles; to construe and interpret the Plan; to prescribe, amend and rescind rules and regulations relating to the Plan; and to make all other determinations deemed necessary or advisable for the administration of the Plan.

The Committee shall consist of two or more persons. The Committee may appoint a chairperson and a secretary and may make such rules and regulations for the conduct of its business as it shall deem advisable and shall keep minutes of its meetings. All determinations of the Committee shall be made by a majority of its members either present in person or participating by conference telephone at a meeting or by unanimous written consent. The Committee may delegate to one or more of its members or to one or more agents such administrative duties as it may deem advisable, and the Committee or any person to whom it has delegated duties as aforesaid may employ one or more persons to render advice with respect to any responsibility the Committee or such person may have under the Plan. All decisions, determinations, and interpretations of the Committee (except those which are specifically stated herein to be subject to Board action) shall be final and binding on all persons, including the Company, the Participant (or any person claiming any rights under the Plan from or through any Participant) and any shareholder.

No member of the Board or the Committee shall be liable for any action taken or determination made in good faith with respect to the Plan or any Bonus hereunder.

## 6. General Provisions.

(a) <u>No Right To Continued Employment</u>. Nothing in the Plan or in any Bonus hereunder shall confer upon any Participant the right to continue in the employ of the Company or any of its Subsidiaries or to be entitled to any remuneration or benefits not set forth in the Plan or to interfere with or limit in any way the right of the Company to terminate such Participant's employment.

(b) <u>Cancellation and Recoupment of Awards</u>. Bonuses and any payments therefor are subject to the Company's Recoupment Policy, as it may be amended from time to time. Bonuses may be cancelled without payment and/or a demand for repayment of any gains realized from Bonuses may be made upon a Participant pursuant to the Company's Recoupment Policy on the basis of any circumstances described therein.

(c) <u>Withholding Taxes</u>. The Company or Subsidiary employing any Participant shall deduct from all payments under the Plan any taxes required to be withheld by federal, state, or local governments.

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(d) <u>Amendment and Termination of the Plan</u>. The Board may at any time and from time to time alter, amend, suspend, or terminate the Plan in whole or in part. Additionally, the Committee may make such amendments as it deems necessary to comply with other applicable laws, rules, and regulations. Notwithstanding the foregoing, no amendment, suspension, or termination of the Plan shall affect adversely any of the rights of any Participant, without such Participant's written consent, with respect to any Bonus target theretofore established with respect to the Participant (or any Bonus to which the Participant has become entitled) under the Plan.

(e) <u>Participant Rights</u>. No Participant in the Plan for a particular Plan Year shall have any claim to be granted any Bonus target under the Plan for any subsequent Plan Year, and there is no obligation for uniformity of treatment for Participants.

(f) <u>Unfunded Status of Bonuses</u>. The Plan is intended to constitute an "unfunded" plan for incentive compensation. With respect to any payments which at any time are not yet made to a Participant with respect to a Bonus, nothing contained in the Plan or any related document shall give any such Participant any rights that are greater than those of a general creditor of the Company.

(g) <u>Governing Law</u>. The Plan and the rights of all persons claiming hereunder shall be construed and determined in accordance with the laws of the Commonwealth of Pennsylvania without giving effect to the choice of law principles thereof, except to the extent that such law is preempted by federal law.

(h) <u>Effective Date</u>. This Plan shall be effective as of January 1, 2023 for non-ELT Participants and January 1, 2024 for ELT Participants (in either case, the "effective date"), and be applicable to that Plan Year and subsequent Plan Years, unless and until otherwise amended or terminated.

## 7. Definitions.

The following terms, as used herein, shall have the following meanings:

- (a) "Affiliate" shall have the meaning set forth in Rule 12b-2 promulgated under Section 12 of the Exchange Act.
- (b) "Beneficial Owner" shall have the meaning set forth in Rule 13d-3 under the Exchange Act.
- (c) "Board" shall mean the Board of Directors of the Company.
- (d) "Bonus" shall mean any annual incentive to which a Participant becomes entitled pursuant to the Plan; the establishment of a "Bonus target" with respect to a Participant pursuant to Section 4(a) hereof does not, by itself, entitle the Participant to payment of any Bonus hereunder; a Bonus must be earned and become payable pursuant to other provisions hereof.

(e) "Change in Control" shall be deemed to have occurred if the event set forth in any one of the following paragraphs shall have occurred:

(I) any Person is or becomes the Beneficial Owner, directly or indirectly, of securities of the Company (not including in the securities beneficially owned by such Person any securities acquired directly from the Company or its Affiliates) representing thirty percent (30%) or more of the combined voting power of the Company's then outstanding securities, excluding any Person who becomes such a Beneficial Owner in connection with a transaction described in clause (i) of paragraph (III) below; or

(II) the following individuals cease for any reason to constitute a majority of the number of directors then serving: individuals who, on the effective date of the Plan, constitute the Board and any new director (other than a director whose initial assumption of office is in connection with an actual or threatened election contest, including but not limited to a consent solicitation, relating to the election of directors of the Company) whose appointment or election by the Board or nomination for election by the Company's shareholders was approved or recommended by a vote of at least two-thirds ( $\frac{2}{3}$ ) of the directors then still in office who either were directors on the effective date hereof or whose appointment, election or nomination for election was previously so approved or recommended; or

(III) there is consummated a merger or consolidation of the Company or any direct or indirect subsidiary of the Company with any other corporation, other than (i) a merger or consolidation which would result in the voting securities of the Company outstanding immediately prior to such merger or consolidation continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity or any parent thereof), in combination with the ownership of any trustee or other fiduciary holding securities under an employee benefit plan of the Company or any subsidiary of the Company, at least fifty-one percent (51%) of the combined voting power of the securities of the Company or such surviving entity or any parent thereof outstanding immediately after such merger or consolidation, or (ii) a merger or consolidation effected to implement a recapitalization of the Company (or similar transaction) in which no Person is or becomes the Beneficial Owner, directly or indirectly, of securities of the Company representing thirty percent (30%) or more of the combined voting power of the Company is then outstanding securities; or

(IV) the shareholders of the Company approve a plan of complete liquidation or dissolution of the Company or there is consummated an agreement for the sale or disposition by the Company of all or substantially all of the Company's assets, other than a sale or disposition by the Company of all or substantially all of the Company's assets to an entity, at least fifty-one percent (51%) of the combined voting power of the voting securities of which are owned by shareholders of the Company in substantially the same proportions as their ownership of the Company immediately prior to such sale.

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Notwithstanding the foregoing, a "Change in Control" shall not be deemed to have occurred by virtue of the consummation of any transaction or series of integrated transactions immediately following which the record holders of the voting securities of the Company immediately prior to such transaction or series of transactions continue to have substantially the same proportionate ownership in an entity which owns all or substantially all of the assets of the Company immediately following such transaction or series of transactions.

- (f) "Chief Executive Officer" shall mean the Chief Executive Officer of the Company.
- (g) "Code" shall mean the Internal Revenue Code of 1986, as amended, and any successor statute of similar import, and regulations thereunder, in each case as in effect from time to time. References to sections of the Code shall be construed also to refer to any successor sections from time to time.
- (h) "Committee" shall mean the Compensation Committee of the Board.
- (i) "Company" shall mean MSA Safety, Inc., a corporation organized under the laws of the Commonwealth of Pennsylvania, or (except as used in the definitions of Change in Control and Person in this Section 7) any successor corporation. The definition of "Company" shall include all subsidiaries of MSA Safety, Inc.
- (j) "Exchange Act" shall mean the Securities Exchange Act of 1934, as amended from time to time.
- (k) "Participant" shall mean an executive or other employee of the Company or one of its Subsidiaries who is eligible to participate herein pursuant to Section 3hereof and for whom a Bonus target is established with respect to the relevant Plan Year.
- (1) "Performance Goal" shall have the meaning given such term in Section 4(b) hereof.

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- "Person" shall have the meaning given in Section 3(a)(9) of the Exchange Act, as modified and used in Sections (m) 13(d) and 14(d) thereof, except that such term shall not include (i) the Company or any of its subsidiaries, (ii) a trustee or other fiduciary holding securities under an employee benefit plan of the Company or any of its Affiliates, (iii) an underwriter temporarily holding securities pursuant to an offering of such securities, or (iv) a corporation owned, directly or indirectly, by the shareholders of the Company in substantially the same proportions as their ownership of stock of the Company, or (v) any individual or entity (including the trustees (in such capacity) of any such entity which is a trust) which as of the effective date of the Plan is, directly or indirectly, the Beneficial Owner of securities of the Company representing 5% or more of the combined voting power of the Company's then outstanding securities or any Affiliate of any such individual or entity, including, for purposes of this Plan, any of the following: (A) any trust (including the trustees thereof in such capacity) established by or for the benefit of any such individual; (B) any charitable foundation (whether a trust or a corporation, including the trustees or directors thereof in such capacity) established by any such individual; (C) any spouse of any such individual; (D) the ancestors (and spouses) and lineal descendants (and spouses) of such individual and such spouse; (E) the brothers and sisters (whether by the whole or half blood or by adoption) of either such individual or such spouse; or (F) the lineal descendants (and their spouses) of such brothers and sisters.
- (n) "Plan" shall mean MSA Safety, Inc. Executive Incentive Plan, as amended from time to time.
- (o) "Plan Year" shall mean the Company's fiscal year.
- (p) "Subsidiary" shall mean any subsidiary of the Company which is designated by the Board or the Committee to have any one or more of its employees participate in the Plan.

## MSA SAFETY INCORPORATED SUBSIDIARIES OF THE REGISTRANT DECEMBER 31, 2023

| Name  | State or Other Jurisdiction of Incorporation |
|---|--|
| Bacharach Holding Corp.                       | Delaware                                     |
| Compañia MSA de Argentina S.A.                | Argentina                                    |
| General Monitors Ireland Limited              | Ireland                                      |
| General Monitors, Inc.                        | Nevada                                       |
| Globe Holding Company, LLC                    | New Hampshire                                |
| Latchways plc                                 | United Kingdom                               |
| MSA (China) Safety Equipment Co. Ltd.         | China  |
| MSA (Suzhou) Safety Equipment R&D Co., Ltd    | China  |
| MSA Advanced Detection, LLC                   | Pennsylvania                                 |
| MSA Canada Inc.                               | Canada                                       |
| MSA de Chile Ltda.                            | Chile  |
| MSA de Mexico, S.A. de C.V.                   | Mexico                                       |
| MSA do Brasil Ltda.                           | Brazil                                       |
| MSA Europe GmbH                               | Switzerland                                  |
| MSA Europe Holdings GmbH                      | Germany                                      |
| MSA Gallet Holdings SAS                       | France                                       |
| MSA Innovation, LLC                           | Pennsylvania                                 |
| MSA International Holdings B.V.               | Netherlands                                  |
| MSA International, LLC                        | Delaware                                     |
| MSA Italia S.R.L.                             | Italy  |
| MSA Nederland B.V.                            | Netherlands                                  |
| MSA Polska Sp. z o.o.                         | Poland                                       |
| MSA Produktion Deutschland GmbH               | Germany                                      |
| MSA S.E. Asia Pte. Ltd.                       | Singapore                                    |
| MSA Safety Development, LLC                   | Pennsylvania                                 |
| MSA Safety Incorporated                       | Pennsylvania                                 |
| MSA Safety Jacksonville Manufacturing, LLC    | Pennsylvania                                 |
| MSA Safety Malaysia Sdn. Bhd.                 | Malaysia                                     |
| MSA Safety Pittsburgh Manufacturing, LLC      | Pennsylvania                                 |
| MSA Safety Sales, LLC                         | Pennsylvania                                 |
| MSA Safety Services GmbH                      | Germany                                      |
| MSA Spain S.L.U.                              | Spain  |
| MSA Technologies and Enterprise Services GmbH | Germany                                      |
| MSA Technology, LLC                           | Pennsylvania                                 |
| MSA Worldwide, LLC                            | Pennsylvania                                 |
| Samsac Holdings (Pty.) Limited                | South Africa                                 |
| Senscient, Ltd.                               | United Kingdom                               |
|   |  |

The above-mentioned subsidiary companies are included in the consolidated financial statements of the registrant filed as part of this annual report. The names of certain other subsidiaries, which considered in the aggregate as a single affiliate would not constitute a significant subsidiary, have been omitted.

### CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the following Registration Statements:

- (1) Registration Statement (Form S-8 No. 333-272543) pertaining to the MSA Safety Incorporated 2023 Management Equity Incentive Plan,
- (2) Registration Statement (Form S-8 No. 333-121196) pertaining to the MSA Retirement Savings Plan,
- (3) Registration Statement (Form S-8 No. 333-157681) pertaining to the Mine Safety Appliances Company 2008 Non-Employee Directors' Equity Incentive Plan.
- (4) Registration Statement (Form S-8 Nos. 333-174601 and 333-157682) pertaining to the Mine Safety Appliances Company 2008 Management Equity Incentive Plan,
- (5) Registration Statement (Form S-8 No. 333-199880) pertaining to the Employee Stock Purchase Plan,
- (6) Registration Statement (Form S-8 No. 333-214397) pertaining to the MSA Safety Incorporated 2016 Management Equity Incentive Plan,
- (7) Registration Statement (Form S-8 No. 333-218078) pertaining to the MSA Safety Incorporated 2017 Non-Employee Directors' Equity Incentive Plan, and
- (8) Registration Statement (Form S-8 No. 333-231966) pertaining to the Sierra Monitor Corporation 2006 Equity Incentive Plan and 2016 Equity Incentive Plan;

of our reports dated February 16, 2024, with respect to the consolidated financial statements and schedule of MSA Safety Incorporated and the effectiveness of internal control over financial reporting of MSA Safety Incorporated included in this Annual Report (Form 10-K) of MSA Safety Incorporated for the year ended December 31, 2023.

/s/ Ernst & Young LLP Pittsburgh, Pennsylvania February 16, 2024

#### CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO RULE 13a-14(a)

I, Nishan J. Vartanian, certify that:

1. I have reviewed this annual report on Form 10-K of MSA Safety Incorporated;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

February 16, 2024

/s/ Nishan J. Vartanian

Nishan J. Vartanian Chairman and Chief Executive Officer (Principal Executive Officer)

### CERTIFICATION OF CHIEF FINANCIAL OFFICER PURSUANT TO RULE 13a-14(a)

I, Lee B. McChesney certify that:

1. I have reviewed this annual report on Form 10-K of MSA Safety Incorporated;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

February 16, 2024

/s/ Lee B. McChesney

Lee B. McChesney Senior Vice President and Chief Financial Officer

### CERTIFICATION

Pursuant to 18 U.S.C. (S) 1350, the undersigned officers of MSA Safety Incorporated (the "Company"), hereby certify, to the best of their knowledge, that the Company's Company's Annual Report on Form 10-K for the year ended December 31, 2021 (the "Report") fully complies with the requirements of Section 13 (a) or 15 (d), as applicable, of the Securities Exchange Act of 1934 and that the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

February 16, 2024

/s/ Nishan J. Vartanian

Nishan J. Vartanian Chairman and Chief Executive Officer (Principal Executive Officer)

/s/ Lee B. McChesney

Lee B. McChesney Senior Vice President and Chief Financial Officer

Exhibit 97

**Mandatory Recoupment Policy** 

Effective Date: 12/01/23

Approved by:

Board of Directors

## **OBJECTIVE**

The objective of this policy (the "**Policy**") is to provide for recoupment of certain compensation in the event of an accounting restatement resulting from material noncompliance with financial reporting requirements under the federal securities laws and as otherwise provided herein. This Policy is designed to comply with Section 10D of the Securities Exchange Act of 1934 (the "**Exchange Act**"), Rule 10D-1 promulgated under the Exchange Act ("**Rule 10D-1**"), and Section 303A.14 of the New York Stock Exchange Listed Company Manual (the "**Listing Standards**").

## **ADMINISTRATION**

This Policy shall be administered by the Board of Directors (the "**Board**") of MSA Safety Incorporated ("**MSA**") or, if so designated by the Board, a committee thereof including the Compensation Committee of the Board, in which case references herein to the Board shall be deemed references to such committee. The Board is authorized to interpret and construe this Policy and to make all determinations and rules as it deems to be necessary or advisable for its administration. It is intended that this Policy be interpreted in a manner that is consistent with the requirements of Section 10D of the Exchange Act and any applicable rules or standards adopted by the Securities and Exchange Commission or the New York Stock Exchange ("**NYSE**"). Any determinations made by the Board shall be final and binding on all affected individuals.

## **COVERED EXECUTIVES**

This Policy applies to MSA's current and former executive officers, as determined by the Board in accordance with Section 10D of the Exchange Act, the definition of executive officer set forth in Rule 10D-1 and the Listing Standards ("**Covered Executives**" or individually "**Covered Executive**").

Mandatory Recoupment Policy Page 1 of 5

## **RECOUPMENT; ACCOUNTING RESTATEMENT**

In the event that MSA is required to prepare an Accounting Restatement, as defined herein, the Board will promptly require reimbursement or forfeiture of any Excess Incentive Compensation, as defined herein, received by any Covered Executive during the three completed fiscal years immediately preceding the date on which MSA is required to prepare an Accounting Restatement, and including any transition period (that results from a change in MSA's fiscal year) within or immediately following those three completed fiscal years, except that a transition period comprising a period of at least nine months shall count as a full fiscal year. The Policy applies to all Incentive-Based Compensation received by a Covered Executive (i) after beginning service as an executive officer; (ii) who served as an executive officer at any time during the performance period for that Incentive-Based Compensation; and (iii) while MSA has a listed class of securities. Recovery of amounts under this Policy with respect to a Covered Executive shall not require the finding of any misconduct by such Covered Executive or that such Covered Executive is responsible for any error associated with an Accounting Restatement.

For purposes of this Policy, an "Accounting Restatement" means an accounting restatement of MSA's financial statements due to MSA's material noncompliance with any financial reporting requirement under the securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is material to the previously issued financial statements, or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period. Also for purposes of this Policy, the date on which MSA is required to prepare an accounting restatement; or (i) the date the Board concludes, or reasonably should have concluded, that MSA is required to prepare an Accounting Restatement; or (ii) the date a court, regulator, or other legally authorized body directs MSA to prepare an Accounting Restatement, in each case regardless of whether or when the restated financial statements are filed.

## EXCESS INCENTIVE COMPENSATION: AMOUNT SUBJECT TO RECOVERY

The amount subject to recovery (the "**Excess Incentive Compensation**") is the excess of the Incentive-Based Compensation paid to the Covered Executive based on the erroneous data over the Incentive-Based Compensation that would have been paid to the Covered Executive had it been based on the restated results. Excess Incentive Compensation shall be determined by the Board without regard to any taxes paid by the Covered Executive with respect to the Excess Incentive Compensation.

For Incentive-Based Compensation based on stock price or total shareholder return: (i) the Board shall determine the amount of the Excess Incentive Compensation based on a reasonable estimate of the effect of the Accounting Restatement on the stock price or total shareholder return upon which the Incentive-Based Compensation was received; and (ii) MSA shall maintain documentation of the determination of that reasonable estimate and provide such documentation to NYSE.

Mandatory Recoupment Policy Page 2 of 5 "Incentive-Based Compensation" means any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a Financial Reporting Measure. Incentive-Based Compensation is received for purposes of this Policy in MSA's fiscal period during which the Financial Reporting Measure specified in the Incentive-Based Compensation award is attained, even if the payment or grant of the Incentive-Based Compensation occurs after the end of that period.

A "**Financial Reporting Measure**" means any measure that is determined and presented in accordance with the accounting principles used in preparing MSA's financial statements, and any measure that is derived in whole or in part from such measure. For purposes of this Policy, Financial Reporting Measures include, but are not limited to, the following, and any measures derived from the following: revenues; earnings before interest, taxes, depreciation and amortization; net income; MSA's stock price; and total shareholder return. A Financial Reporting Measure need not be presented within MSA's financial statements or included in a filing with the Securities and Exchange Commission.

## **METHOD OF RECOUPMENT**

The Board shall determine, in its sole discretion, the timing and method for promptly recouping Excess Incentive Compensation, which may include without limitation:

(a) seeking reimbursement of all or part of any cash or equity Incentive-Based Compensation previously paid,

(b) seeking recovery of any gain realized on the vesting, exercise, settlement, sale, transfer, or other disposition of any equitybased awards,

(c) cancelling prior cash or equity-based awards, whether vested or unvested or paid or unpaid,

(d) cancelling or offsetting against any planned future cash or equity-based awards,

(e) forfeiture of deferred compensation, subject to compliance with Section 409A of the Internal Revenue Code (the "**Code**") and the regulations promulgated thereunder, and

(f) any other method authorized by applicable law or contract.

Subject to compliance with any applicable law, the Board may recover amounts under this Policy from any amount otherwise payable to the Covered Executive.

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## **IMPRACTICABILITY OF RECOUPMENT**

MSA is authorized and directed pursuant to this Policy to recoup Excess Incentive Compensation in compliance with this Policy unless the Compensation Committee of the Board has determined that recovery would be impracticable solely for the following limited reasons, and subject to the following procedural and disclosure requirements:

- The direct expense paid to a third party to assist in enforcing the Policy would exceed the amount to be recovered; provided that prior to concluding that it would be impracticable to recover any amount of Excess Incentive Compensation based on expense of enforcement, the Board must make a reasonable attempt to recover such erroneously awarded compensation, document such reasonable attempt(s) to recover and provide that documentation to NYSE; or
- Recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of MSA, to fail to meet the requirements of 26 U.S.C. 401(a)(13) or 26 U.S.C. 411(a) and regulations thereunder.

## **NO INDEMNIFICATION OF COVERED EXECUTIVES**

MSA shall not indemnify any Covered Executives against the loss of any incorrectly awarded Excess Incentive Compensation. MSA is prohibited from paying or reimbursing a Covered Executive for purchasing insurance to cover any such loss.

## **BOARD INDEMNIFICATION**

Any members of the Board or its delegates shall not be personally liable for any action, determination or interpretation made with respect to this Policy and shall be fully indemnified by MSA to the fullest extent under applicable law and MSA's organizational documents and policy with respect to any such action, determination or interpretation. The foregoing sentence shall not limit any other rights to indemnification of the members of the Board or its delegates under applicable law or MSA organizational documents and policy.

## **EFFECTIVE DATE**

This Policy shall be effective as of the effective date of the Listing Standards (the "Effective Date"). The terms of this Policy shall apply to any Incentive-Based Compensation that is received by Covered Executives on or after the Effective Date and during the applicable recoupment period described herein, even if such Incentive-Based Compensation was approved, awarded, granted or paid to Covered Executives prior to the Effective Date.

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## AMENDMENT AND TERMINATION

The Board may amend this Policy from time to time in its discretion and shall amend this Policy as it deems necessary to reflect final regulations adopted by the Securities and Exchange Commission under Section 10D of the Exchange Act, to comply with any rules or standards adopted by NYSE, and to comply with (or maintain an exemption from the application of) Section 409A of the Code. The Board may terminate this Policy at any time.

## ADDITIONAL RIGHTS

The Board intends that this Policy will be applied to the fullest extent of the law. The Board may require that any employment agreement, equity award agreement, or similar agreement entered into on or after the Effective Date shall, as a condition to the grant of any benefit thereunder, require a Covered Executive to agree to abide by the terms of this Policy. Any right of recoupment under this Policy is in addition to, and not in lieu of, any other remedies or rights of recoupment that may be available to MSA pursuant to the terms of any other MSA recoupment policy, any similar policy in any employment agreement, equity award agreement, or similar agreement and any other legal remedies available to MSA.

## **SEVERABILITY**

The provisions in this Policy are intended to be applied to the fullest extent of the law. To the extent that any provision of this Policy is found to be unenforceable or invalid under any applicable law, such provision shall be applied to the maximum extent permitted, and shall automatically be deemed amended in a manner consistent with its objectives to the extent necessary to conform to any limitations required under applicable law.

## **GOVERNING LAW**

This Policy and all rights and obligations hereunder are governed by and construed in accordance with the internal laws of the Commonwealth of Pennsylvania, excluding any choice of law rules or principles that may direct the application of the laws of another jurisdiction.

## **SUCCESSORS**

This Policy shall be binding and enforceable against all Covered Executives and their beneficiaries, heirs, executors, administrators or other legal representatives.

## **EXHIBIT FILING REQUIREMENT**

A copy of this Policy and any amendments thereto shall be posted on MSA's website and filed as an exhibit to MSA's annual report on Form 10-K.

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