Making the World a **Healthier Place**

2023 Annual Report



ABOUT BALCHEM

Balchem is committed to making the world a healthier place by delivering trusted, innovative, and science-based solutions for the health and nutritional needs of the world. Balchem employs approximately 1,300 employees worldwide who provide the service, quality, and technology that enables our customers to win with their customers. We have built a reputation for delivering results to all of our stakeholders. Founded in 1967, Balchem, a Maryland corporation, became a publicly-traded company in 1970 and is listed on Nasdaq under the symbol "BCPC." Our corporate headquarters is located in Montvale, New Jersey, and we have a broad network of sales offices, manufacturing sites, and R&D centers, primarily located in the U.S. and Europe.

The Company consists of three business segments: Human Nutrition and Health, Animal Nutrition and Health, and Specialty Products.

Balchem solves today, shapes tomorrow.



Human Nutrition and Health

Balchem Human Nutrition and Health is a global leader in the essential nutrient choline, vitamin K2, chelated minerals, and microencapsulation technologies with strong positions in powder, flavor and cereal system formulation. Food or beverage, supplement or pharmaceutical, our Human Nutrition and Health business segment provides ready-made and custom nutrients, vitamins, ingredients, systems, and products that enable our customers to create better finished goods that improve all aspects of life. As the human nutrition space continues to evolve, our capabilities grow, allowing us to deliver scientifically proven health benefits and fantastic taste in applications from infant formulas to performance shakes and functional foods.



Animal Nutrition and Health

Balchem Animal Nutrition and Health is a global leader in choline production, nutrient encapsulation, chelated minerals, and functional ingredients. With a growing portfolio of products and a dedication to innovation and industry sustainability, Balchem Animal Nutrition and Health is leading the charge to meet the nutritional needs of ruminants, swine, poultry, and companion animals.



Specialty Products

Our Specialty Products business segment specializes in re-packaging and worldwide distribution of performance gases, for use in the sterilization of medical devices, fumigation of nuts and spices, refrigeration, metal hardening, and other industrial applications. We have the packaging and distribution know-how to ensure the safe delivery of these products in returnable, reusable, environmentally safe containers. Our Plant Nutrition business unit, included in Specialty Products, provides highly bioavailable foliar applied chelated minerals and other specialty micronutrients under the trade name Metalosate® to the agricultural market.

LETTER TO SHAREHOLDERS



Dear Fellow Shareholders:

2023 was another strong year for Balchem and as I reflect back on the Company's performance and progress in 2023, we once again have much to be proud of relative to Balchem's accomplishments. I would like to begin by thanking our approximately 1,300 employees who played such a critical role in our success. Together, we continued to deliver solid financial results while making significant progress on our strategic growth initiatives.

In 2023, after delivering revenue growth of 14% and 18% in 2021 and 2022 respectively, our revenues declined 2% due in large part to the macro-economic environment and the general de-stocking that occurred in our market. Despite this revenue decline, we delivered record earnings from operations of \$159.2 million dollars, an increase of 9.6 percent, and record adjusted EBITDA of \$231 million dollars, an increase of 7.1 percent from the prior year, and we fully restored our margin profile to more normalized levels following the inflationary pressures we experienced in previous years. And, we also generated record free cash flow, allowing us to further pay down our debt and reduce our leverage ratio on a net debt basis to 1.1 times our 2023 Adjusted EBITDA.

In 2023 we fully integrated the Kappa Bioscience and Bergstrom Nutrition acquisitions made in the second half of 2022. The addition of vitamin K2 and methyl-sulfonyl-methane, or MSM, to our product portfolio is starting to play out as we expected with our now broader portfolio indeed enhancing our ability to provide a broader array of innovative solutions for the health and nutritional needs of our customers and the world at large.

We have shared with you over the course of the year a number of exciting new studies that support the supplementation of our portfolio of minerals, nutrients, and vitamins, for both human and animal nutrition. These studies augment existing science and bring new science to light, and they ultimately will support and strengthen our efforts to drive increased awareness and market penetration.

I am particularly pleased with the progress we made in 2023 to more effectively market, communicate, and promote the positive results from these studies to both our customers as well as the end consumers. We have clearly enhanced our marketing capabilities to leverage the strong science behind our products so that we can build awareness and ultimately drive penetration. While there is clearly more work to be done here, we are making good progress.

Overall, we are very excited about the opportunities that exist with our portfolio of products, and we believe that as the library of science keeps growing, and our marketing capabilities continue to be enhanced, the market opportunity for our unique portfolio of products and technologies will grow as well.

LETTER TO SHAREHOLDERS (CONTINUED)

Additionally, we made important investments in plant and equipment in 2023. Of particular note, was the completion of our expanded manufacturing facility for VitaCholine®, Balchem's market leading brand of human choline. The expansion and upgrade will increase output by approximately fifty percent and will allow the company to better meet the rising demand for this essential nutrient, well known in the supplement industry in relation to cognitive, liver, and overall health.

We also made significant progress in 2023 relating to the Company's corporate social responsibilities. Balchem released its fifth Sustainability Report in 2023, in which we provided an update on our progress toward our 2030 goals to reduce both greenhouse gas emissions and water usage by 25 percent. And we were extremely pleased to report that we are already tracking ahead of our 2030 goal on greenhouse gas emissions reductions! Balchem's approach remains unchanged as we continue to focus on our two main objectives: providing innovative solutions for the health and nutritional needs of the world, and operating with excellence as strong stewards of our stakeholders. As a result of our efforts, Balchem was once again named one of America's Most Responsible Companies by Newsweek magazine for the fourth consecutive year.

Additionally, in December, we announced another increase to our annual dividend, taking the dividend from 71 to 79 cents per share, an 11 percent increase year over year. This most recent increase marked the fifteenth consecutive year of double-digit growth of our dividend which once again reinforced our commitment to our long-standing dividend strategy.

All in all, another strong year for Balchem!

Lastly, I would like to take this opportunity to express my sincere thanks and gratitude to Dr. Televantos and Mr. Premdas, both of whom retired from our Board at the end of their terms in June. Dr. Televantos served on our Board for over 17 years and as our Lead Director for over 12 years. Mr. Premdas served on our Board for over 14 years, including as Chair of our Audit Committee for 10 years. They provided oversight and expertise through Balchem's growth and have each left an indelible mark on our Board. On behalf of the Company and the Board, I would like to thank them for their guidance and dedicated service over many years and wish them all the best. With the retirements of Dr. Televantos and Mr. Premdas, we were pleased to welcome two new independent directors to our Board. Olivier Rigaud, Chief Executive Officer of Corbion N.V., a global food and biochemicals company based in the Netherlands, and Monica Vicente, Senior Vice President and Chief Financial Officer of Fresh Del Monte Produce Inc., a global agricultural and fresh food produce company based in the U.S., each bring added diversity, relevant market expertise, and strong global business acumen to the Board.

As I look forward to 2024 and beyond, I believe we are well positioned to drive continued growth and progress on our strategic growth initiatives. Thank you again to all of our stakeholders for your contributions and continued support.

Sincerely,

Theodore L. "Ted" Harris

Chairman, President and Chief Executive Officer

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 10-K

(Mark One)		
☑ ANNUAL REPORT PURSUANT TO SECTION 1934	ΓΙΟΝ 13 OR SECTION 15	(d) OF THE SECURITIES EXCHANGE ACT OF
For the fiscal year ended December 31, 2023	3	
OR		
☐ TRANSITION REPORT PURSUANT TO S	SECTION 13 OR 15(d) OF	THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from to	_	
Co	mmission file number: 1-13	648
Balch	em Corpo	ration
(Exact name	e of Registrant as specified	in its charter)
Maryland		13-2578432
(State or other jurisdiction of incorporation or orga	anization)	(I.R.S. Employer Identification Number)
5 Par	ragon Drive, Montvale, NJ	07645
(Address of	f principal executive offices) (Zip Code)
Registrant's telepho	ne number, including area	code: (845) 326-5600
Securities regis	stered pursuant to Section 1	2(b) of the Act:
Title of each class	Trading symbol	Name of each exchange on which registered
Common Stock, par value \$.06-2/3 per share	ВСРС	The Nasdaq Stock Market LLC
Securities register	red pursuant to Section 12(g	g) of the Act: None
ndicate by check mark whether the Registrant is a Yes ☑ No □	well-known seasoned issue	r, as defined in Rule 405 of the Securities Act.
ndicate by check mark whether the Registrant is not \mathbb{Z} Solve \mathbb{Z} No \mathbb{Z}	ot required to file reports pu	ursuant to Section 13 or Section 15(d) of the Act.
•	months (or such shorter po	d to be filed by Section 13 or 15(d) of the Securities eriod that the Registrant was required to file such sys. Yes \boxtimes No \square
		very Interactive Data File required to be submitted preceding 12 months (or for such shorter period that

reporting company	," and "emerging growth comp	bany" in Rule 12b-2 of the Exchange	Act.
(Check one):	Large accelerated filer ☑	Accelerated filer □	
	Non-accelerated filer \square	Smaller reporting company \square	Emerging growth company \square
	1 37	e e	not to use the extended transition period for o Section 13(a) of the Exchange Act. □
effectiveness of its	internal control over financial	•	on to its management's assessment of the sarbanes-Oxley Act (15 U.S.C. 7262(b))
	-	2(b) of the Act, indicate by check m ion of an error to previously issued fin	ark whether the financial statements of the nancial statements. \Box
,	5		required a recovery analysis of incentive- the relevant recovery period pursuant to
Indicate by check in Yes □ No ☑	mark whether the Registrant is	a shell company (as defined in Rule 1	2b-2 of the Exchange Act).

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller

The aggregate market value of the common stock, par value \$.06-2/3 per share (the "Common Stock"), issued and outstanding and held by non-affiliates of the Registrant, based upon the closing price for the Common Stock on the NASDAQ Stock Market LLC on June 30, 2023 was approximately \$4,321,000,000. For purposes of this calculation, shares of the Registrant held by directors and officers of the Registrant and under the Registrant's 401(k)/profit sharing plan have been excluded.

The number of shares outstanding of Common Stock was 32,266,941 as of February 2, 2024.

DOCUMENTS INCORPORATED BY REFERENCE

Selected portions of the Registrant's proxy statement for its 2024 Annual Meeting of Shareholders (the "2024 Proxy Statement") to be filed with the Securities and Exchange Commission pursuant to Regulation 14A within 120 days after Registrant's fiscal year-end of December 31, 2023 are incorporated by reference in Part III of this Annual Report on Form 10-K to the extent stated therein.

Cautionary Statement Regarding Forward-Looking Statements

Certain statements in this Annual Report on Form 10-K, other than purely historical information, are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements are not statements of historical facts, but rather reflect our current expectations or beliefs concerning future events and results. We generally use the words "believe," "expect," "intend," "plan," "anticipate," "likely," "will," "would," "will be," "will continue," "will likely result," "estimate," "project," "forecast," "outlook," "strategy," "future," "opportunity," "may," "should," or the negative thereof or variations thereon or similar expressions generally intended to identify forward-looking statements. Such forward-looking statements, including those concerning our expectations, involve risks, uncertainties and other factors, some of which are beyond our control, which may cause our actual results, performance or achievements, or industry results, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. The risks, uncertainties and factors that could cause our results to differ materially from our expectations and beliefs include, but are not limited to, those factors set forth in this Annual Report on Form 10-K under "Item 1A. - Risk Factors." You should read that information in conjunction with "Management's Discussion and Analysis of Financial Condition and Results of Operations" in Item 7 of this report and our Consolidated Financial Statements and related notes in Item 8 of this report. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

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PART I

Item 1. Business (All amounts in thousands, except share and per share data)

General

Balchem Corporation ("Balchem," the "Company," "we" or "us"), was incorporated in the State of Maryland in 1967. We develop, manufacture, distribute and market specialty performance ingredients and products for the nutritional, food, pharmaceutical, animal health, medical device sterilization, plant nutrition and industrial markets. Our three reportable segments are strategic businesses that offer products and services to different markets: Human Nutrition and Health, Animal Nutrition and Health, and Specialty Products. Sales and production of products outside of our reportable segments and other minor business activities are included in "Other and Unallocated".

We sell our products through our own sales force, independent distributors and sales agents. Financial information concerning our business, business segments and geographic information appears in Management's Discussion and Analysis of Financial Condition and Results of Operations under Item 7 below and in the Notes to our Consolidated Financial Statements included under Item 8 below, which information is incorporated herein by reference.

Human Nutrition and Health

The Human Nutrition and Health ("HNH") segment provides human grade choline nutrients and mineral amino acid chelated products through this segment for nutrition and health applications. Choline is recognized to play a key role in the development and structural integrity of brain cell membranes in infants, processing dietary fat, reproductive development and neural functions, such as memory and muscle function. The Company's mineral amino acid chelates, specialized mineral salts, and mineral complexes are used as raw materials for inclusion in premier human nutrition products; proprietary technologies have been combined to create an organic molecule in a form the body can readily assimilate. Sales growth for human nutrition applications is reliant on differentiation from lower-cost competitive products through scientific data, intellectual property and customers' appreciation of brand value. Consequently, the Company makes investments in such activities for long-term value differentiation. This segment also manufactures specialty vitamin K2, which plays a crucial role in the human body for bone health, heart health and immunity, and methylsulfonylmethane ("MSM"), which is a widely used nutritional ingredient that helps provide benefits for joint health, sports nutrition, skin and beauty, and healthy aging. This segment also serves the food and beverage industry for beverage, bakery, dairy, confectionary, and savory manufacturers. The Company partners with its customers from ideation through commercialization to bring on-trend beverages, baked goods, confections, dairy and meat products to market. The Company has expertise in trends analysis and product development. With its strong manufacturing capabilities in customized spray dried and emulsified powders, extrusion and agglomeration, blended lipid systems, liquid flavor delivery systems, juice and dairy bases, chocolate systems, ice cream bases and variegates, the Company is a one-stop solutions provider for beverage and dairy product development needs. Additionally, this segment provides microencapsulation solutions to a variety of applications in food, pharmaceutical and nutritional ingredients to enhance performance of nutritional fortification, processing, mixing, and packaging applications and shelf-life. Major product applications are baked goods, refrigerated and frozen dough systems, processed meats, seasoning blends, confections, sports and protein bars, dietary plans, and nutritional supplements. The Company also creates cereal systems for ready-to-eat cereals, grain-based snacks, and cereal based ingredients.

Animal Nutrition and Health

The Company's Animal Nutrition and Health ("ANH") segment provides nutritional products derived from its microencapsulation and chelation technologies in addition to the essential nutrient choline chloride. For ruminant animals, the Company's microencapsulated products boost health and milk production by delivering nutrient supplements that are biologically available, providing required nutritional levels. The Company's proprietary chelation technology provides enhanced nutrient absorption for various species of production and companion animals and is marketed for use in animal feed throughout the world. ANH also manufactures and supplies choline chloride, an essential nutrient for monogastric animal health, predominantly to the poultry, pet and swine industries. Choline, which is manufactured and sold in both dry and aqueous forms, plays a vital role in the metabolism of fat. In poultry, choline deficiency can result in reduced growth rates and perosis in young birds, while in swine production choline is a necessary and required component of gestating and lactating sow diets for both liver health and prevention of leg deformity. This segment also manufactures MSM, which is a widely used nutritional ingredient that provides benefits for pet health.

Sales of value-added encapsulated products are highly dependent on overall industry economics as well as the Company's ability to leverage the results of university and field research on the animal health and production benefits of our products. Management believes that success in the commodity-oriented choline chloride marketplace is highly dependent on the Company's ability to maintain its strong reputation for excellent product quality and customer service. The Company continues to drive production efficiencies in order to maintain its competitive-cost position to effectively compete in a competitive global marketplace.

Specialty Products

The Company re-packages and distributes a number of performance gases and chemicals for various uses by its customers, notably ethylene oxide, propylene oxide, and ammonia. Ethylene oxide is sold as a sterilant gas, primarily for use in the health care industry. It is used to sterilize a wide range of medical devices because of its versatility and effectiveness in treating hard or soft surfaces, composites, metals, tubing and different types of plastics without negatively impacting the performance of the device being sterilized. Contract sterilizers and medical device manufacturers are principal customers for this product. Propylene oxide is marketed and sold as a fumigant to aid in the control of insects and microbiological spoilage, to reduce bacterial and mold contamination in certain shelled and processed nut meats, processed spices, cacao beans, cocoa powder, raisins, figs and prunes, and for various chemical synthesis applications, such as increasing paint durability and manufacturing specialty starches and textile coatings. Ammonia is used primarily as a refrigerant, for heat treatment of metals and various chemical synthesis applications, and is distributed in reusable and recyclable drum and cylinder packaging approved for use in the countries these products are shipped to.

The Company's performance gases and chemicals are distributed worldwide in specially designed, reusable and recyclable drum and cylinder packaging, to assure compliance with safety, quality and environmental standards as outlined by the applicable regulatory agencies in the countries our products are shipped to. The Company's inventory of these specially built drums and cylinders, along with its five filling facilities, represents a significant capital investment. The Company also sells single use canisters for use in sterilizing re-usable devices typically processed in autoclave units in hospitals.

The Company's micronutrient agricultural nutrition business sells chelated minerals primarily to producers of high value crops. The Company has a unique and patented two-step approach to solving mineral deficiency in plants to optimize health, yield and shelf-life. First, the Company determines optimal mineral balance for plant health. The Company then has a foliar applied Metalosate® product range, utilizing patented amino acid chelate technology. Its products quickly and efficiently deliver mineral nutrients. As a result, the farmer/grower gets healthier crops that are more resistant to disease and pests, larger yields and healthier food for the consumer with extended shelf life for produce being shipped long distances.

Acquisitions

On August 30, 2022, the Company's wholly-owned subsidiary Albion Laboratories, Inc. ("Albion") entered into a Stock Purchase Agreement, and closed on such transaction with Cardinal Associates Inc. ("Cardinal"), a corporation organized under the laws of the State of Washington, pursuant to which Albion acquired Cardinal and its Bergstrom Nutrition business (collectively, "Bergstrom"). Bergstrom is a leading science-based manufacturer of MSM, based in Vancouver, Washington. Details related to the Bergstrom acquisition are disclosed in Note 2, *Significant Acquisitions*. The addition of OptiMSM®, Bergstrom Nutrition's MSM brand, to the Company's portfolio within the Human Nutrition and Health and Animal Nutrition and Health segments provides a synergistic scientific advantage in Balchem's key strategic therapeutic focus areas such as longevity and performance and is a strong fit with Balchem's specialty, science-backed mineral products.

On June 21, 2022, the Company and its wholly-owned subsidiary, Balchem B.V., completed the acquisition of Kechu BidCo AS and its subsidiary companies, including Kappa Bioscience AS, a leading science-based manufacturer of specialty vitamin K2 for the human nutrition industry, headquartered in Oslo, Norway (all acquired companies collectively referred to as "Kappa"). Details related to the Kappa acquisition are disclosed in Note 2, *Significant Acquisitions*. The acquisition strengthens the Company's scientific and technical expertise, geographic reach, and marketplace leadership, which should ultimately lead to accelerated growth for the Company's portfolios within the Human Nutrition and Health segment.

Raw Materials

The raw materials utilized by us in the manufacture of our products are sourced from suppliers both domestically and internationally. Such raw materials include materials derived from petrochemicals, minerals, metals, agricultural commodities and other readily available commodities and are subject to price fluctuations due to market conditions. In 2023, supply reliability improved due to a weaker macroeconomic (demand) environment though we experienced some difficulties in procuring certain materials due to the challenging geopolitical environment impacting some supply lanes. In a year of mixed inflationary and

deflationary trends across key categories we source, we were able to secure most necessary materials from our suppliers and continued to strive to ensure a sustainable supply chain to support our growing business operations.

Intellectual Property

We currently hold over 130 patents and over 400 trademarks in the United States and overseas. We also use know-how, trade secrets, formulae, and manufacturing techniques that assist in maintaining competitive positions of certain of our products. Formulae and know-how are of particular importance in the manufacture of a number of our proprietary products. We believe that our patents, in the aggregate, are advantageous to our business. However, we do not believe we are materially dependent on any particular patent or any particular group of patents. We believe that our sales and competitive position are dependent primarily upon the quality of our products, technical sales efforts and market conditions, rather than on patent protection.

Seasonality

While in general, the businesses of our segments are not seasonal to any material extent, the plant nutrition business within Specialty Products is a seasonal business with the vast majority of sales occurring in the first half of the year, based on the planting season in the northern hemisphere.

Backlog

At December 31, 2023, we had a total backlog of \$42,957 (comprised of \$32,418 for the HNH segment; \$7,639 for the ANH segment; \$2,678 for the Specialty Products segment, and \$222 for other), as compared to a total backlog of \$47,022 at December 31, 2022 (comprised of \$31,550 for the HNH segment; \$11,983 for the ANH segment; \$2,980 for the Specialty Products segment and \$509 for other). It has generally been our policy and practice to maintain an inventory of finished products and/or component materials for our segments to enable us to ship products within two months after receipt of a product order. All orders in the current backlog are expected to be filled in the 2024 fiscal year.

Competition

Our competitors include many large and small companies, some of which have greater financial, research and development, production and other resources than us. Competition in the supplement, food and beverage markets we serve are based primarily on product performance, customer support, quality, service and price. The development of new and improved products is important to our success. This competitive environment requires substantial investments in product and manufacturing process research and development. In addition, the winning and retention of customer acceptance of our food and nutrition products involve substantial expenditures for application testing, either internally or at customer/prospect sites, and sales efforts. Our competition in this market includes a variety of ingredient and nutritional supplement companies, many of which are privately-held. Therefore, it is difficult to assess the size of all of our segment competitors or where we rank in comparison to such privately-held competitors.

Competition in the animal feed and industrial markets we serve is based primarily on product performance, customer support, quality, service and price. The markets for our products are subject to competitive risks because these markets are highly price competitive. Our competition in this market includes a variety of animal nutrition and health ingredient companies, along with certain industrial companies, many of which are privately-held. Therefore, we are unable to assess the size of all of our competitors or where we rank in comparison to such privately-held competitors.

In the Specialty Products segment, competition within Performance Gases is based primarily on service, reliability, quality, and price. Our competitors in this market vary globally, many of which are regional privately-held companies. We also face competition from alternate technologies or substitute products. In our plant nutrition business, competition is based primarily on product performance, customer support, quality, and price. The development of new and improved products is also important to our ability to compete. Our competition in this market is primarily regional privately-held companies.

Research and Development

During the years ended December 31, 2023, 2022 and 2021, we incurred research and development expenses of approximately \$15,049, \$12,191, and \$13,524, respectively, on Company-sponsored research and development for new products, improvements to existing products, and manufacturing processes. We have historically funded our research and development programs with

funds available from current operations with the intent of recovering those costs from profits derived from future sales of products resulting from, or enhanced by, the research and development effort.

We prioritize our product development activities in an effort to allocate resources to those product candidates that, we believe, have the greatest commercial potential. Factors we consider in determining the products to pursue include projected markets and needs, status of our proprietary rights, technical feasibility, expected and known product attributes, and estimated costs to bring the product to market.

Capital Projects

We continue to invest in projects across all production facilities and capital expenditures were approximately \$37,274, \$49,086, and \$36,142 for 2023, 2022 and 2021, respectively. In 2023, we invested \$20,720 on projects expected to provide favorable returns on investment, including expanded capacity in key product lines in the HNH segment. In addition, we invested \$6,900 for environmental, health, safety, and security upgrades to our facilities. In 2022, we invested \$29,759 on projects expected to provide favorable returns on investment, including expanded capacity in key product lines in the HNH segment. In addition, we invested \$6,020 for environmental, health, safety, and security upgrades to our facilities and \$3,024 in automation projects that improved quality and efficiency of our operations. In 2021, we invested \$20,544 on projects expected to provide favorable returns on investment, including expanded capacity in key product lines in the HNH segment. In addition, we invested \$3,138 for environmental, health, safety, and security upgrades to our facilities, \$2,330 in automation projects that improved quality and efficiency of our operations, and \$2,222 in research and development projects. Capital expenditures are projected to range from \$35,000 to \$40,000 for 2024, including our continued efforts to invest in energy and water saving projects, while exploring additional renewable energy opportunities in support of the company's sustainability efforts.

Environmental and Regulatory Matters

The Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), a health and safety statute, requires that certain products within our Specialty Products segment must be registered with the U.S. Environmental Protection Agency ("EPA") because they are considered pesticides. As part of the registration review process, the EPA assesses a wide variety of studies to determine the likelihood of risk to human health and the environment from exposure associated with use of the product. We hold EPA registrations permitting us to sell ethylene oxide as a medical device sterilant and spice fumigant and propylene oxide as a fumigant of nuts and spices.

In April 2008, the EPA issued a RED ("Re-registration Eligibility Decision") for ethylene oxide which permitted the continued use of ethylene oxide "to sterilize medical or laboratory equipment, pharmaceuticals, and aseptic packaging, or to reduce microbial load on musical instruments, cosmetics, whole and ground spices and other seasoning materials and artifacts, archival material or library objects". In 2013, the EPA initiated a new registration review of ethylene oxide, in line with and as part of the registration review scheduled for a large number of other pesticides. When the Final Work Plan was issued in March 2014, the EPA anticipated that this registration review process would take approximately seven years. In December 2016, the EPA issued its Integrated Risk Information System ("IRIS") assessment of ethylene oxide (the "IRIS Assessment"), another aspect of the EPA's safety review of ethylene oxide. In November 2020, the EPA issued a Draft Human Health Risk Assessment for Ethylene Oxide ("Draft HHRA"). In this Draft HHRA, the EPA presented multiple perspectives on risk extrapolation, including the IRIS Assessment. While acknowledging the necessity of maintaining the critical uses of ethylene oxide, based on the range of unit risk provided in this qualitative assessment, the EPA stated that there should be further mitigation measures implemented. In April 2023, the EPA released a Proposed Interim Decision and Draft Human Health Risk Assessment addendum which included certain proposed mitigation measures. We believe that the EPA intends to reregister ethylene oxide for the sterilization of medical or laboratory equipment, pharmaceuticals, aseptic packaging, and the reduction of microbes on spices/seasonings, with the proposed mitigation measures potentially impacting such users, including our customers. The product, when used as a sterilant for certain medical devices, has no known equally effective substitute. In October 2019, the U.S. Food and Drug Administration in a public statement said, "Although medical devices can be sterilized by several methods, ethylene oxide is the most common method of sterilization of medical devices in the U.S. and is a well-established and scientifically-proven method of preventing harmful microorganisms from reproducing and causing infections." Management believes the lack of availability of this product could not be reasonably tolerated by various medical device manufacturers or the health care industry due to the resultant infection potential.

Similarly, the EPA issued a RED for propylene oxide in August 2006. At that time, the EPA "determined that products containing the active ingredient propylene oxide ("PPO") are eligible for re-registration provided that...risk mitigation measures...are adopted." In 2013, the EPA initiated a new registration review of propylene oxide, in line with and as part of the registration review scheduled for a large number of other pesticides. A Final Work Plan was issued in March 2014, and the EPA anticipated that this review process would take approximately seven years. In October 2020, the EPA issued both the Proposed Interim

Decision and Draft Risk Assessment for propylene oxide. In July 2021, the EPA issued the Interim Decision. Based on these documents, the use of propylene oxide to treat nuts and spices will continue to be permitted with minimal changes to the current approved usage. We submitted those changes and expect the EPA to review and approve them in the coming months during 2024.

Our facility in Verona, Missouri facility, while held by a prior owner, Syntex Agribusiness, Inc. ("Syntex"), was designated by the EPA as a Superfund site and placed on the National Priorities List in 1983 because of dioxin contamination on portions of the site. Remediation was conducted by Syntex under the oversight of the EPA and the Missouri Department of Natural Resources. We are indemnified by the sellers under our May 2001 asset purchase agreement covering our acquisition of the Verona, Missouri facility for potential liabilities associated with the Superfund site, and one of the sellers, in turn, has the benefit of certain contractual indemnification by Syntex in relation to the implementation of the above-described Superfund remedy. In June 2023, in response to a Special Notice Letter received from the EPA in 2022, BCP Ingredients, Inc. ("BCP"), the Company's subsidiary that operates the site, Syntex, EPA, and the State of Missouri entered into an Administrative Settlement Agreement and Order on Consent ("ASAOC") for a focused remedial investigation/feasibility study ("RI/FS") under which (a) BCP will conduct a source investigation of potential source(s) of releases of 1,4-dioxane and chlorobenzene at a portion of the site and (b) BCP and Syntex will complete a RI/FS to determine a potential remedy, if any is required. Activities under the ASAOC are underway and are expected to continue for some period of time.

In connection with normal operations at our plant facilities, we are required to maintain environmental and other permits, including those relating to the use of ethylene oxide. From time to time, our manufacturing sites may be subject to inspections by the EPA and other agencies. To the extent any consent orders or other agreements are entered into as a result of findings from such inspections, the Company is committed to ensuring compliance with such orders or agreements. For a further discussion of our potential environmental liabilities, see Note 16, *Commitments and Contingencies*, to our Consolidated Financial Statements.

We believe we are in compliance in all material respects with applicable laws and regulations that have been enacted or adopted regulating the discharge of materials into the environment or otherwise relating to the protection of the environment. Such compliance includes the maintenance of required permits under air pollution regulations and compliance with requirements of the Occupational Safety and Health Administration. The cost of such compliance has not had a material effect upon the results of our operations or our financial condition.

We produce products which are required to be manufactured in conformity with current Good Manufacturing Practice ("cGMP") regulations as interpreted and enforced by the FDA, through third party contract arrangement. Modifications, enhancements or changes in contracted manufacturing facilities or procedures relating to our pharmaceutical products are, in many circumstances, subject to FDA approval, which may be subject to a lengthy application process or which we may be unable to obtain. Any contracted manufacturing facilities that manufacture our pharmaceutical products are periodically subject to inspection by the FDA and other governmental agencies, and operations at these facilities could be interrupted or halted if the results of these inspections are unsatisfactory.

Human Capital

Our employees are our most valued asset and fundamental to our success. As of December 31, 2023, we employed approximately 1,302 full-time employees worldwide, with approximately 18% covered by collective bargaining agreements. We are seeing some modest improvement in most relevant labor markets and we believe that we have been successful in attracting skilled and experienced personnel in a competitive environment and that our human capital resources are adequate to perform all business functions. In addition, we continue to enhance technology to further optimize productivity and performance.

Health and Safety

Protecting the workplace environment and the health and safety of our employees, contractors, visitors, and neighbors is our top priority. Our recordable injury rate, which is defined as recordable injuries per 200,000 hours worked, was 1.39 and 1.17 in 2023 and 2022, respectively. The injuries were primarily the result of manual material handling and cultural/behavioral factors that influence outcome. We are adjusting our 2024 environmental, health, safety, and security management system to include an even greater emphasis on hazard identification/correction and cultural/behavioral aspects of personal safety. In addition, we continually upgrade our facilities to reduce health and safety risks and establish procedures with appropriate personnel protection for the safety of our employees.

Diversity and Inclusion

We recognize that our best performance is achieved when our teams are diverse, and accordingly, diversity and inclusion are important elements of Balchem's Human Resources strategy. We strive to promote inclusion through the implementation of inclusive leadership training across the Company and are committed to increasing representation of minorities throughout the organization. In 2023, our total workforce consisted of 74% male and 26% female among all employees and 47% male and 53%

female when excluding supply chain and operations functions. In 2022, our total workforce consisted of 75% male and 25% female among all employees and 50% male and 50% female when excluding supply chain and operations functions. With the support of our Board of Directors, we continue to explore additional diversity and inclusion initiatives.

Training and Well-Being Programs

We strive to develop employee skills and knowledge, which includes training for job-specific technical knowledge, regulatory requirements, and company policies, through our internal learning and development platform. The topics of trainings include the Company's Code of Conduct, anti-harassment and discrimination, foreign corrupt practices, antitrust, cyber security, and various other compliance subjects. Our sponsored employee continuing learning program offers a broad base of assistance for employees, including learning and development courses. We also deployed unconscious bias and inclusive leadership training to our management team. Employees have access to healthy lifestyle discounts through our Wellness Center, as well as debt, legal, and financial counseling. Leadership programs, peak performance training and multiple online services and courses enable our employees to choose their own learning paths and work towards achieving their goals for education, finances, and overall well-being.

Performance Review, Compensation and Benefits

Our annual performance review process is an important, objective-based dialogue to foster continuous growth and development by providing an opportunity to establish goals and deliver feedback relative to each employee's performance. Balchem's annual review process is closely aligned with a formal succession planning and talent review process designed to identify and develop the next generation of leaders.

We are dedicated to providing full-time employees with a competitive compensation package that includes medical, dental, vision, and prescription benefits in addition to a 401(k) matching program. Balchem also provides financial support for health and wellness programs such as online financial wellness content, sponsored weight loss programs and subsidized gym memberships. We also provide generous time off and leave benefits, which are important to help ensure employees can enjoy a healthy balance between work and family time.

For the years ended December 31, 2023 and 2022, our turnover rate was 11% and 15%, respectively, for salaried employees with an average length of service of over 9 years for both years. For the years ended December 31, 2023 and 2022, our turnover rate was 29% and 36%, respectively, for hourly employees with an average length of service of about 7 years for both years. We are continuing to improve employee retention with effective employment engagement efforts, a productive performance review process, and competitive compensation.

Sustainability

We operate as strong stewards of our shareholders, customers, suppliers, employees, and the communities in which we operate. We are working to make our workforce more inclusive, our business more sustainable, and our communities more engaged by maintaining strong environmental, social and governance practices.

In 2023, we published our 2022 Sustainability Report. This report provides detailed information regarding our Corporate Responsibility strategy, focus areas and governance structure. We are committed to reducing our greenhouse gas emissions by implementing new technologies, improving operational efficiencies, and expanding green energy usages. In addition, we are committed to reducing our global water use by reducing and recycling water usage and investing new technologies to improve water efficiency. For more information on our approach to sustainability management, refer to our 2022 Sustainability Report, which is available on our website at https://balchem.com/our-company/corporate-social-responsibility/sustainability. The information contained on, or that may be accessed through, the Company's website is not incorporated by reference into, and is not part of, this Annual Report on Form 10-K.

In December 2023, Balchem was named on Newsweek's 2024 list of America's Most Responsible Companies and has earned a ranking amongst this prestigious list of companies for the fourth consecutive year. This prestigious list, compiled by Newsweek in partnership with Statista Inc., recognizes the most responsible companies in the U.S. across a variety of industries, and is based on their assessment of publicly available corporate responsibility data. We are pleased to be recognized by Newsweek and Statista for our leadership in corporate responsibility.

Available Information

Our headquarters is located at 5 Paragon Drive, Montvale, NJ 07645. Our telephone number is (845) 326-5600 and our Internet website address is www.balchem.com. We make available through our website, free of charge, our Annual Reports on Form 10-

K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, and amendments to such reports, as soon as reasonably practicable after they have been electronically filed with the Securities and Exchange Commission (the "SEC"). Such reports are available via a link from the Investor Relations page on our website to a list of our reports on the SEC's EDGAR website. The address of the SEC's website is www.sec.gov.

Item 1A. Risk Factors

We discuss our expectations regarding future performance, events and outcomes in this Form 10-K, quarterly and annual reports, press releases and other written and oral communications. All statements except for historical and present factual information are "forward-looking statements" and are based on financial data and business plans available only as of the time the statements are made, which may become outdated or incomplete. Forward-looking statements are inherently uncertain, and investors must recognize that events could significantly differ from our expectations. You should carefully consider the risk factors discussed below, together with all the other information included in this Form 10-K, in evaluating us and our ordinary shares. If any of the risks below actually occurs, our business, financial condition, results of operations and cash flows could be materially and adversely affected. Any such adverse effect may cause the trading price of our ordinary shares to decline, and as a result, you could lose all or part of your investment in us. Our business may also be adversely affected by risks and uncertainties not known to us or risks that we currently believe to be immaterial. We assume no obligation to update any forward-looking statements as a result of new information, future events or other factors.

Operational Risks

We face risks associated with our sales to customers and manufacturing operations outside the United States.

Our net sales consist of sales both within and outside the United States. In addition, we conduct a portion of our manufacturing outside the United States. The majority of our foreign sales occur through our foreign subsidiaries and the remainder of our foreign sales result from exports to foreign distributors, resellers and customers. Our foreign sales and operations are subject to a number of risks, including: longer accounts receivable collection periods; the impact of recessions and other economic conditions in economies outside the United States; export duties and quotas; imposition of, or changes in, tariffs, sanctions, trade restrictions, and trade relations including but not limited to those associated with the United States-Mexico-Canada Agreement ("USMCA") which replaced the North American Free Trade Agreement ("NAFTA"), other free trade agreements, and the exit of the United Kingdom from the European Union; unexpected changes in regulatory requirements; certification requirements; environmental regulations; reduced protection for intellectual property rights in some countries; potentially adverse tax consequences; political and economic instability; and preference for locally produced products. These factors could have a material adverse impact on our ability to increase or maintain our international sales.

Our sales and operations may be adversely affected by supply chain disruptions due to political unrest, terrorist acts, and national and international conflicts.

Our sales and operations are subject to a number of risks, including political and economic instability, which could have a material adverse impact on our ability to increase or maintain our international sales and operations. National and international conflicts such as war, border closures, civil disturbances and terrorist acts, including Russia's invasion of Ukraine and the ongoing conflict between Israel and Hamas, may increase the likelihood of already strained supply interruptions and further hinder our ability to access the materials and energy we need to manufacture our products. Additional supply chain disruptions will make it harder for us to find favorable pricing and reliable sources for the materials we need. As a result, such disruptions will put upward pressure on our costs and increase the risk that we may be unable to acquire the materials and services we need to continue to make certain products, in particular at our manufacturing facilities in Europe.

Our financial success depends in part on the reliability and sufficiency of our manufacturing facilities.

Our revenues depend on the effective operation of our manufacturing, packaging, and processing facilities. The operation of our facilities involves risks, including the breakdown, failure, or substandard performance of equipment, power outages, the improper installation or operation of equipment, explosions, fires, natural disasters, failure to achieve or maintain safety or quality standards, work stoppages, supply or logistical outages, and the need to comply with environmental and other directives of governmental agencies. The occurrence of material operational problems, including, but not limited to, the above events, could adversely affect our profitability during the period of such operational difficulties.

Our ability to successfully grow and expand our business depends on our ability to recruit and retain a highly qualified and diverse workforce.

Our ability to successfully grow and expand our business is dependent upon our ability to recruit and retain a workforce with the skills necessary to develop, manufacture and deliver the products and services desired by our customers. We need highly skilled and qualified personnel in multiple areas, including research and development, engineering, sales, manufacturing, information technology, cybersecurity, accounting, regulatory, and management. We must therefore continue to effectively recruit, retain and motivate highly qualified, skilled and diverse personnel to maintain our current business and support our projected growth. A shortage of these employees for various reasons, including intense competition for skilled employees, labor shortages, increased labor costs, candidates' preference to work remotely, changes in laws and policies regarding immigration and work authorizations in jurisdictions where we have operations, or any government mandates that may result in workforce attrition and difficulty with recruiting, may jeopardize our ability to grow and expand our business.

We may, from time to time, experience problems in our labor relations.

A portion of our North American workforce is represented by a union under a single collective bargaining agreement. In Europe, employees at our Marano, Ticino, Italy facility and Bertinoro, Italy facility are covered by a national collective bargaining agreement, respectively. We believe that our present labor relations with all our union employees are satisfactory, however, our failure to renew these agreements on reasonable terms could result in labor disruptions and increased labor costs, which could adversely affect our financial performance. Similarly, if our relations with the union portion of our workforce do not remain positive, such employees could initiate a strike, work stoppage or slowdown in the future. In the event of such an action, we may not be able to adequately meet the needs of our customers using our remaining workforce and our operations and financial condition could be adversely affected. Additionally, other portions of our workforce could become subject to union campaigns.

The effects of global climate change or other unexpected events, including global health crises, may disrupt our operations and have a negative impact on our business.

The effects of global climate change, such as extreme weather conditions and natural disasters occurring more frequently or with more intense effects, or the occurrence of unexpected events including wildfires, tornadoes, hurricanes, earthquakes, floods, tsunamis and other severe hazards or global health crises, such as the outbreak of Ebola or the global COVID-19 pandemic, or other actual or threatened epidemic, pandemic, outbreak and spread of a communicable disease or virus, in the countries where we operate or sell products and provide services, could adversely affect our operations and financial performance. Extreme weather, natural disasters, power outages, global health crises or other unexpected events could disrupt our operations by impacting the availability and cost of materials needed for manufacturing, causing physical damage and partial or complete closure of our manufacturing sites or distribution centers, loss of human capital, temporary or long-term disruption in the manufacturing and supply of products and services and disruption in our ability to deliver products and services to customers. These events and disruptions could also adversely affect our customers' and suppliers' financial condition or ability to operate, resulting in reduced customer demand, delays in payments received or supply chain disruptions. Further, these events and disruptions could increase insurance and other operating costs, including impacting our decisions regarding construction of new facilities to select areas less prone to climate change risks and natural disasters, which could result in indirect financial risks passed through the supply chain or other price modifications to our products and services.

We may be subject to risks relating to our information technology and operational technology systems.

We rely extensively on information technology and operational technology systems, networks and services including hardware, software, firmware and technological applications and platforms (collectively, "IT Systems") to manage and operate our business from end-to-end, including ordering and managing materials from suppliers, design and development, manufacturing, marketing, selling and shipping to customers, invoicing and billing, managing our banking and cash liquidity systems, managing our enterprise resource planning and other accounting and financial systems and complying with regulatory, legal and tax requirements. We have invested and will continue to invest in improving our IT Systems. Some of these investments are significant and impact many important operational processes and procedures. There is no assurance that newly implemented IT Systems will improve our current systems, improve our operations or yield the expected returns on the investments. In addition, the implementation of new IT Systems may be more difficult, costly or time consuming than expected and cause disruptions in our operations and, if not properly implemented and maintained, negatively impact our business. If our IT Systems cease to function properly or if these systems do not provide the anticipated benefits, our ability to manage our operations could be impaired.

We currently rely on third-party service providers for many of the critical elements of our global information and operational technology infrastructure and their failure to provide effective support for such infrastructure could negatively impact our business and financial results.

We have outsourced many of the critical elements of our global information and operational technology infrastructure to thirdparty service providers in order to achieve efficiencies. If such service providers do not perform or do not perform effectively, we may not be able to achieve the expected efficiencies and may have to incur additional costs to address failures in providing service by the service providers. Depending on the function involved, such non-performance, ineffective performance or failures of service may lead to business disruptions, processing inefficiencies or security breaches.

Disruptions or breaches of our information systems could adversely affect us.

Despite our implementation of cybersecurity measures which have focused on prevention (including a robust cybersecurity employee education program to train our employees on email and password security, recognizing phishing and related topics on a regular basis), mitigation, resilience and recovery, our network and products, including access solutions, may be vulnerable to cybersecurity attacks, computer viruses, malicious codes, malware, ransomware, phishing, social engineering, denial of service, hacking, break-ins and similar disruptions, including through use of new artificial intelligence tools or methods. Cybersecurity attacks and intrusion efforts are continuous and evolving, and in certain cases they have been successful at the most robust institutions. The scope and severity of risks that cyber threats present have increased dramatically and include, but are not limited to, malicious software, attempts to gain unauthorized access to data or premises, exploiting weaknesses related to vendors or other third parties that could be exploited to attack our systems, denials of service and other electronic security breaches that could lead to disruptions in systems, unauthorized release of confidential or otherwise protected information and corruption of data. Any such event could have a material adverse effect on our business, operating results and financial condition, as we face regulatory, reputational and litigation risks resulting from potential cyber incidents, as well as the potential of incurring significant remediation costs. Further, while we maintain insurance coverage that may, subject to policy terms and exclusions, cover certain aspects of our cyber risks, such insurance coverage may be insufficient to cover our losses or all types of claims that may arise in the continually evolving area of cyber risk.

We also face increasing and evolving disclosure obligations related to cybersecurity events. Despite rigorous processes, we may not adequately meet all our existing or future disclosure obligations and/or having our disclosures misinterpreted. Determining whether a cybersecurity incident is notifiable or reportable may not be straightforward and any such mandatory disclosures could lead to negative publicity, loss of customer confidence in the effectiveness of our security measures, diversion of management's attention and governmental investigations.

Our daily business operations also require us to collect and/or retain sensitive data such as intellectual property, proprietary business information and data related to customers, employees, suppliers and business partners within our networking infrastructure including data from individuals subject to the European Union's General Data Protection Regulation, that is subject to privacy and security laws, regulations and/or customer-imposed controls. Despite our efforts to protect such data, the loss or breach of such data due to various causes including material security breaches, catastrophic events, extreme weather, natural disasters, power outages, system failures, computer viruses, improper data handling, programming errors, unauthorized access and employee error or malfeasance could result in wide reaching negative impacts to our business, and as such, the ongoing maintenance and security of this information is pertinent to the success of our business operations and our strategic goals.

Our networking infrastructure and related assets may be subject to unauthorized access by hackers, employee error or malfeasance or other unforeseen activities. Such issues could result in the disruption of business processes, network degradation and system downtime, along with the potential that a third party will exploit our critical assets such as intellectual property, proprietary business information and data related to our customers, suppliers and business partners. To the extent that such disruptions occur and our business continuity plans do not effectively address these disruptions in a timely manner, they may cause delays in the manufacture or shipment of our products and the cancellation of customer orders and, as a result, our business, operating results and financial condition could be materially and adversely affected, resulting in a possible loss of business or brand reputation.

Business and Financial Risks

Increased competition could adversely affect our business and financial results.

We face competition in our markets from a number of large and small companies, some of which have greater financial, research and development, production and other resources than we do. Our competitive position is based principally on performance, quality, customer support, service, breadth of product line, manufacturing or packaging technology and the selling prices of our products. We may be unable to effectively compete on all these bases. Further, our competitors may improve the design and performance of their products and introduce new products with competitive price and performance characteristics. While we expect to do the same to maintain our current competitive position and market share, if we are unable to anticipate evolving trends in the market or the timing and scale of our competitors' activities and initiatives, the demand for our products and services could be negatively impacted.

Global economic conditions may adversely affect our business, operating results and financial condition.

Unfavorable changes in economic conditions, including inflation, recession, changes in tariffs and trade relations amongst international trading partners, or other changes in economic conditions, may adversely impact the markets in which we operate.

These conditions may make it extremely difficult for our customers, our vendors and us to accurately forecast and plan future business activities, and they could cause U.S. and foreign businesses to slow spending on our products which would reduce our revenues and profitability. If inflation in costs such as raw materials, packaging, freight, labor and energy prices increase beyond our ability to control for them through measures such as implementing operating efficiencies, we may not be able to increase prices to sufficiently offset the effect of various costs increases without negatively impacting customer demand, thereby negatively impacting our margin performance and results of operations.

Furthermore, during challenging economic times our customers may face issues gaining timely access to sufficient credit, which could result in an impairment of their ability to make timely payments to us. If that were to occur, we may be required to increase our allowance for doubtful accounts and cash flow would be negatively impacted. We cannot predict the timing, depth or duration of any economic slowdown or subsequent economic recovery, worldwide, or in the markets in which we operate. Also, at any point in time we have funds in our cash accounts that are with third party financial institutions. These balances in the U.S. and other countries could exceed the Federal Deposit Insurance Corporation ("FDIC") and other relevant insurance limits, respectively. While we monitor the cash balances in our accounts, these balances could be impacted if the underlying financial institutions fail or could be subject to other adverse conditions in the financial markets. Additionally, our future results of operations could be adversely affected by changes in the effective tax rate as a result of a change in the mix of earnings in jurisdictions with differing statutory tax rates, changes in tax laws, regulations and judicial rulings or changes in the interpretation thereof.

Raw material shortages or price increases could adversely affect our business and financial results.

The principal raw materials that we use in the manufacture of our products can be subject to price fluctuations due to market conditions and factors beyond our control, including the COVID-19 pandemic and inflationary pressures, both of which have impacted our business over the past several years and are likely to continue for some time. Such raw materials include materials derived from petrochemicals, minerals, metals, agricultural commodities and other commodities. While the selling prices of our products tend to increase or decrease over time with the cost of raw materials, these changes may not occur simultaneously or to the same degree. At times, including during periods of rapidly increasing raw material prices, we may be unable to pass increases in raw material costs through to our customers due to certain contractual obligations. Such increases in the price of raw materials, if not offset by product price increases, or substitute raw materials, would have an adverse impact on our profitability. We believe we have reliable sources of supply for our raw materials under normal market conditions. We cannot, however, predict the likelihood or impact of any future raw material shortages. Any shortages or unforeseen price increases could have a material adverse impact on our results of operations.

Our international operations subject us to currency translation risk and currency transaction risk which could cause our results to fluctuate from period to period.

The financial condition and results of operations of our foreign subsidiaries are reported in local currencies and then translated into U.S. dollars at the applicable currency exchange rate for inclusion in our consolidated financial statements. Exchange rates between these currencies in recent years have fluctuated and may do so in the future. Furthermore, we incur currency transaction risk whenever we enter into either a purchase or a sales transaction using a currency different than the functional currency. Given the volatility of exchange rates, we may not be able to effectively manage our currency transactions and/or translation risks. Volatility in currency exchange rates could impact our business and financial results.

Although we utilize risk management tools, such as derivative instruments, to mitigate market fluctuations in foreign currencies, any changes in strategy in regard to risk management tools can also affect revenue, expenses and results of operations and there can be no assurance that such measures will result in cost savings or that all market fluctuation exposure will be eliminated.

Our debt instruments are subject to interest rate risks and impose operating and financial restrictions which could have an adverse impact on our business and results of operations.

Our incurrence of indebtedness could have negative consequences to us, including limiting our ability to borrow additional monies for our working capital, capital expenditures, acquisitions, debt service requirements or other general corporate purposes; limiting our flexibility in planning for, or reacting to, changes in our operations, our business or the industries in which we compete; our leverage may place us at a competitive disadvantage by limiting our ability to invest in the business or in further research and development; making us more vulnerable to downturns in our business or the economy; and there would be a material adverse effect on our business and financial condition if we were unable to service our indebtedness or obtain additional financing, as needed.

Our ability to make payments on our indebtedness depends on our ability to generate cash in the future. If we do not generate sufficient cash flow to meet our debt service and working capital requirements, we may need to seek additional financing or sell assets. This may make it more difficult for us to obtain financing on terms that are acceptable to us, or at all. Without any such

financing, we could be forced to sell assets to make up for any shortfall in our payment obligations under unfavorable circumstances.

Interest payable in accordance with our five-year senior secured revolving credit agreement (the "Credit Agreement") is based on a fluctuating rate. In light of potential fluctuations, including interest rate increases which may continue, we are exposed to risk resulting from adverse changes in interest rates.

Further, due to the cessation of the London Interbank Offered Rate ("LIBOR"), we have entered into financial transactions such as credit agreements that use the Secured Overnight Financing Rate ("SOFR") as interest rate benchmarks. SOFR is calculated differently from LIBOR and has inherent differences which could give rise to uncertainties, including the limited historical data and volatility in the benchmark rates. The full effects of the transition to SOFR or other rates remain uncertain.

We may not be able to successfully consummate and manage acquisition, joint venture and divestiture activities which could have an impact on our results.

From time to time, we may acquire other businesses, enter into joint ventures and, based on an evaluation of our business portfolio, divest existing businesses. These acquisitions, joint ventures and divestitures may present financial, managerial and operational challenges, including diversion of management attention from existing businesses, difficulty with integrating or separating personnel and financial and other systems, increased expenses, difficulties in realizing synergies expected to result from acquisitions, potential loss of key employees, key contractual relationships or key customers of acquired companies or of us, difficulties in integrating financial reporting systems and implementing controls, procedures and policies, including disclosure controls and procedures and internal control over financial reporting, appropriate for public companies of our size at companies that, prior to the acquisition, had lacked such controls, procedures and policies, assumption of unknown liabilities and indemnities, and potential disputes with the buyers or sellers. In addition, we may be required to incur asset impairment charges (including charges related to tangible assets, goodwill and other intangible assets) in connection with acquired businesses which may reduce our profitability. If we are unable to consummate such transactions, or successfully integrate and grow acquisitions and achieve contemplated revenue synergies and cost savings, our financial results could be adversely affected. Additionally, joint ventures inherently involve a lesser degree of control over business operations, thereby potentially increasing the financial, legal, operational and/or compliance risks.

We may not be able to effectively manage and implement restructuring initiatives or other organizational changes.

We may, from time to time, restructure or make other adjustments to our workforce and manufacturing footprint in response to market or product changes, performance issues, changes in strategy, acquisitions and/or other internal and external considerations. These restructuring activities and other organizational changes may result in increased restructuring costs, diversion of management's time and attention from daily operations and temporarily reduced productivity. If we are unable to successfully manage and implement restructuring and other organizational changes, we may not achieve or sustain the expected growth or cost savings benefits of these activities or do so within the expected timeframe. These effects could recur in connection with future acquisitions and other organizational changes and our results of operations could be negatively affected.

Changes in our relationships with our vendors, changes in tax or trade policy, interruptions in our operations or supply chain or increased commodity or supply chain costs could adversely affect our results of operations.

We are dependent on our vendors, including common carriers, to supply raw materials to our manufacturing facilities. As we continue to add capabilities to quickly move the appropriate amount of inventory at optimal operational costs through our entire supply chain, operating our fulfillment network becomes more complex and challenging. If our fulfillment network does not operate properly, if a vendor fails to deliver on its commitments, or if common carriers have difficulty providing capacity to meet demands for their services, we could experience inventory shortages, delivery delays or increased delivery costs, which could lead to lost sales and decreased guest confidence, and adversely affect our results of operations.

A large portion of our raw materials are sourced, directly or indirectly, from outside the U.S. Any major changes in tax or trade policy, such as the imposition of additional tariffs or duties on imported products, between the U.S. and countries from which we source raw materials could require us to take certain actions, including for example raising prices on products we sell and seeking alternative sources of supply from vendors in other countries with whom we have less familiarity, which could adversely affect our reputation, sales, and our results of operations.

Political or financial instability, currency fluctuations, the outbreak of pandemics or other illnesses (such as the COVID-19 pandemic), labor unrest, transport capacity and costs, port security, weather conditions, natural disasters, or other events that could alter or suspend our operations, slow or disrupt port activities, or affect foreign trade are beyond our control and could materially disrupt our supply of raw materials, increase our costs, and/or adversely affect our results of operations. There have been periodic labor disputes impacting the U.S. ports that have caused us to make alternative arrangements to continue the flow of

inventory, and if these types of disputes recur, worsen, or occur in other countries through which we source products, it may have a material impact on our costs or inventory supply. Changes in the costs of procuring commodities used in our products or the costs related to our supply chain, could adversely affect our results of operations.

Adverse publicity or consumer concern regarding the safety or quality of food products containing our products, or health concerns, whether with our products, products in the same general class as our products or for food products containing our products, may result in the loss of sales. Also, consumer preferences for products containing our products may change.

We are dependent upon consumers' perception of the safety, quality and possible dietary benefits of products containing our food ingredient products. As a result, substantial negative publicity concerning our products or other foods and beverages in which our products are used could lead to a loss of consumer confidence in those products, removal of those products from retailers' shelves and reduced sales and prices of our products. Product quality issues, actual or perceived, or allegations of product contamination, even when false or unfounded, could hurt the image of our products or of brands of products containing our products, and cause consumers to choose other products. Further, any product recall, whether our own or by a third party, whether due to real or unfounded allegations, could impact demand on food products containing our products or even our products. Any of these events could have a material adverse effect on our business, results of operations and financial condition. Consumer preferences, as well as trends, within the food industries change often and our failure to anticipate, identify or react to changes in these preferences and trends could, among other things, lead to reduced demand and price reductions, and could have an adverse effect on our business, results of operations and financial condition. While we continue to diversify our product offerings, developing new products entails risks and we cannot be certain that demand for our products and products containing our products will continue at current levels or increase in the future.

Legal, Regulatory and Compliance Risks

Material adverse legal judgments, fines, penalties or settlements could adversely affect our business.

We may from time to time become involved in legal proceedings and disputes incidental to the operation of our business. Our business may be adversely affected by the outcome of these proceedings and other contingencies (including, without limitation, product liability, tort, environmental, intellectual property, antitrust, data protection, privacy, and labor and employment matters) that cannot be predicted with certainty. As required by GAAP, if applicable, we establish reserves based on our assessment of contingencies. Subsequent developments in legal proceedings and other contingencies may affect our assessment and estimates of the loss contingency recorded as a reserve, and we may be required to make additional material payments.

Our business exposes us to potential product liability claims and recalls, which could adversely impact our financial condition and performance.

Our development, manufacture and sales of food ingredient, pharmaceutical and nutritional supplement products involve an inherent risk of exposure to product liability claims, product recalls, product seizures and related adverse publicity. A product liability judgment against us could also result in substantial and unexpected expenditures, affect consumer confidence in our products, and divert management's attention from other responsibilities. Although we maintain product liability insurance coverage in amounts we believe are customary within the industry, there can be no assurance that this level of coverage is adequate or that we will be able to continue to maintain our existing insurance or obtain comparable insurance at a reasonable cost, if at all. A product recall or a partially or completely uninsured judgment against us could have a material adverse effect on results of operations and financial condition.

Our brands are important assets of our businesses, and violation of our trademark rights by imitators could negatively impact revenues and brand reputation.

Our brands and trademarks enjoy a reputation for quality and value and are important to our success and competitive position. Unauthorized use of our trademarks may not only erode sales of our products but may also cause significant damage to our brand name and reputation, interfere with relationships with our customers and increase litigation costs. There can be no assurance that our on-going effort to protect our brand and trademark rights will prevent all violations.

Allegations that we have infringed the intellectual property rights of third parties could negatively affect us.

We may be subject to claims of infringement of intellectual property rights by third parties. In general, if it is determined that one or more of our technologies, products or services infringes the intellectual property rights owned by others, we may be required to cease marketing those products or services, to obtain licenses from the holders of the intellectual property at a material cost or to take other actions to avoid infringing such intellectual property rights. The litigation process is costly and subject to inherent uncertainties, and we may not prevail in litigation matters regardless of the merits of our position. Adverse intellectual property

litigation or claims of infringement against us may become extremely disruptive if the plaintiffs succeed in blocking the trade of our products and services and may have a material adverse effect on our business.

We are subject to risks related to corporate social responsibility and reputational matters.

Our reputation and the reputation of our brands, including the perception held by our customers, end-users, business partners, investors, other key stakeholders and the communities in which we do business are influenced by various factors. There is an increased focus from our stakeholders on Environmental, Social and Governance ("ESG") practices and disclosure – and if we fail, or are perceived to have failed, in any number of ESG matters, such as environmental stewardship, goals regarding our intended reduction of carbon emissions and water usage, inclusion and diversity, workplace conduct and support for local communities, or to effectively respond to changes in, or new, legal or regulatory requirements concerning climate change or other sustainability concerns, our reputation or the reputation of our brands may suffer. Such damage to our reputation and the reputation of our brands may negatively impact our business, financial condition and results of operations. Further, there are an increasing number of anti-ESG legislative initiatives that may conflict with other regulatory requirements or our stakeholders' expectations.

In addition, negative or inaccurate postings or comments on social media or networking websites about the Company or our brands could generate adverse publicity that could damage our reputation or the reputation of our brands. If we are unable to effectively manage real or perceived issues, including concerns about product quality, safety, corporate social responsibility or other matters, sentiments toward the Company or our products could be negatively impacted, and our financial results could suffer.

Our reputation, ability to do business and results of operations could be impaired by adverse publicity or improper conduct by any of our employees, agents or business partners.

We are subject to regulation under a variety of U.S. federal and state and non-U.S. laws, regulations and policies including laws related to anti-corruption, export and import compliance, anti-trust and money laundering due to our global operations. We cannot provide assurance that our internal controls will always protect us from the improper conduct of our employees, agents and business partners. Any improper conduct could damage our reputation and subject us to, among other things, civil and criminal penalties, material fines, equitable remedies (including profit disgorgement and injunctions on future conduct), securities litigation and a general loss of investor confidence.

Our operations are subject to regulatory risks and the loss of governmental permits and approvals would materially and adversely affect some of our businesses.

Our U.S. and non-U.S. operations are subject to a number of laws and regulations, including environmental, health and safety standards. We have incurred, and will be required to continue to incur, significant expenditures to comply with these laws and regulations. Changes to, or changes in interpretations of, current laws and regulations, including climate change legislation or other environmental mandates, could require us to increase our compliance expenditures, cause us to significantly alter or discontinue offering existing products and services or cause us to develop new products and services. Altering current products and services or developing new products and services to comply with changes in the applicable laws and regulations could require significant research and development investments, increase the cost of providing the products and services and adversely affect the demand for our products and services, including shifting demand to competitors in countries where laws and regulations may be less stringent.

In the event a regulatory authority concludes that we are not or have not at all times been in full compliance with these laws or regulations, we could be fined, criminally charged or otherwise sanctioned. Certain environmental laws assess liability on current or previous owners of real property or operators of manufacturing facilities for the costs of investigation, removal or remediation of hazardous substances or materials at such properties or at properties at which parties have disposed of hazardous substances. Liability for investigative, removal and remedial costs under certain U.S. federal and state laws and certain non-U.S. laws are retroactive, strict and joint and several. In addition to cleanup actions brought by governmental authorities, private parties could bring personal injury or other claims due to the presence of, or exposure to, hazardous substances. For more information, see "Item 1. Business – Environmental and Regulatory Matters" of this report.

While we have planned for future capital and operating expenditures to maintain compliance with environmental laws, our costs of compliance may exceed our estimates. We may also be subject to environmental claims for personal injury, liabilities arising from past, present or future releases of, or exposures to, hazardous substances, or cost recovery actions for remediation of facilities in the future based on our past, present or future business activities.

Further, pursuant to applicable environmental and safety laws and regulations, we are required to obtain and maintain certain governmental permits and approvals, including EPA registrations under FIFRA for some of our products. We maintain EPA

FIFRA registrations for ethylene oxide as a medical device sterilant and spice fumigant and for propylene oxide as a fumigant of nuts and spices. These products are progressing through a multi-year FIFRA re-registration review process. Recent draft documents indicate that the EPA intends to continue the registrations for both ethylene oxide and propylene oxide with certain additional mitigation measures. The EPA may re-examine the registrations in the future in accordance with the provisions of FIFRA. Any future determination by the EPA to discontinue permitted use of ethylene oxide or propylene oxide would have a material adverse effect on our business and financial results.

Commercial supply of pharmaceutical products that we may develop, subject to cGMP manufacturing regulations, would be performed by third-party cGMP manufacturers. Modifications, enhancements or changes in third-party manufacturing facilities or procedures of our pharmaceutical products are, in many circumstances, subject to FDA approval, which may be subject to a lengthy application process or which we may be unable to obtain. Any third-party cGMP manufacturers that we may use are periodically subject to inspection by the FDA and other governmental agencies, and operations at these facilities could be interrupted or halted if the results of these inspections are unsatisfactory. Failure to comply with the FDA or other governmental regulations can result in fines, unanticipated compliance expenditures, recall or seizure of products, total or partial suspension of production, enforcement actions, injunctions and criminal prosecution, which could have a material adverse effect on our business and financial results.

Permits and approvals may be subject to revocation, modification or denial under certain circumstances. Our operations or activities could result in administrative or private actions, revocation of required permits or licenses, or fines, penalties or damages, which could have an adverse effect on us. In addition, we cannot predict the extent to which any legislation or regulation may affect the market for our products or our cost of doing business.

Concerns about ethylene oxide emissions have resulted in certain state actions against certain of our customers that are currently impacting these customers' ability to use the ethylene oxide process to sterilize medical devices, which may, in turn, affect sales to these customers.

There is increased focus on the use and emissions of ethylene oxide by the EPA and state environmental agencies. Certain of the Company's customers who use ethylene oxide in the U.S. for the sterilization of medical devices have received ongoing state and local scrutiny for environmental concerns at their facilities. This scrutiny is associated with the IRIS Assessment described in "Item 1. Business – Environmental and Regulatory Matters" of this report, which deemed exposure to ethylene oxide as unsafe at levels far below those found in the environment. The EPA began using the IRIS Assessment in 2020 to regulate change to existing permissible emissions limits at facilities that produce or use ethylene oxide in non-sterilization processes, and subsequently proposed rules for ethylene oxide sterilization facilities as well. These rules have yet to be finalized. Additionally, some state and local regulators have drawn their own conclusions from the IRIS Assessment, which has resulted in certain state actions against our customers that continue to impact these customers' ability to use the ethylene oxide process to sterilize medical devices. Due to these regulatory actions, many customers have taken or are expected to take some voluntary downtime to install new abatement equipment. The installation of the new abatement equipment is being done ahead of what is expected to be changes in the EPA regulations. The Company remains confident that the sterilization industry will be able to install abatement equipment to satisfy the new forthcoming EPA requirements. The Company is working with various stakeholders to ensure the EPA considers all available assessments to appropriately quantify ethylene oxide's risks. While the Company believes that EPA will, as it has in the past, ultimately regulate to lower emissions levels based on a combined consideration of the various assessments available and that industry will then adopt practices and procedures to ensure compliance with these new regulations, there is no assurance that this will be the case. Further, additional regulatory requirements associated with the use and emission of ethylene oxide may be imposed in the future, both within and outside of the U.S. Such increased regulation could require our customers and/or the Company to temporarily suspend operations to install additional fugitive emissions control technology, limit the use of ethylene oxide or take other actions which could impact our business, financial condition or results of operations.

Item 1B. Unresolved Staff Comments

None.

Item 1C. Cybersecurity

Cybersecurity is a critical part of our enterprise risk management. The Board, through its Audit Committee, oversees enterprise risk management, including cybersecurity. To more effectively address cybersecurity threats, we have numerous security layers within our least privilege network approach which is managed by our Information Technology Department. Our cybersecurity programs align with numerous standards and continues to grow and develop as new technologies emerge. Further, we have regular user awareness testing and trainings in place which helps keep all end users and executive leadership up-to-date on the most current threats. The global head of Information Security, possessing credentials in both information technology ("IT") and cybersecurity, provides regular updates to senior management. Additionally, they provide at least an annual update, or more frequently if necessary, to both the Audit Committee and the full Board regarding the current threat landscape at Balchem, cybersecurity technologies, mitigation strategies, industry trends and best practices that we follow, major cybersecurity incidents (if any), and other areas of importance. The global head of Information Security has responsibility over cybersecurity management globally and reports directly to the Chief Financial Officer. Additional activities to maintain and enhance information security are discussed below.

• Reliable, Scalable Systems and Infrastructure

Our information security systems, infrastructure, and processes are built on and follow the U.S. National Institute of Standards and Technology ("NIST") framework for information security, which is a set of guidelines, accepted standards, and best practices for mitigating organization cybersecurity risks published by NIST. We continue to make significant investments in industry-leading and advanced technologies as part of our strategy to strengthen our security posture, business continuity capabilities, and ability to protect and safeguard systems and stakeholder data. Our Information Security Program and systems are tested and assessed annually by an independent third party.

• Automation and Artificial Intelligence

We have implemented automated systems to proactively test attack vectors by emulating inside and outside threats resulting in the validation of our ability to detect and defend against a cyber attack. Artificial intelligence is used as part of early warning systems designed to detect, alert, and respond to potential cyber threats.

• Training

Recognizing that information security, stakeholder data, and privacy principles involve more than just systems and infrastructure, we provide semi-annual cybersecurity education and training to all users with access to IT systems, devices, or applications. Internal social engineering phishing campaigns are conducted regularly with the goal of building a culture of cybersecurity, as well as raising awareness and reinforcing best practices across the organization.

Third parties also play a role in our cybersecurity. We engage third-party services to conduct evaluations of our security controls, whether through penetration testing, independent audits or consulting on best practices to address new challenges. These evaluations include testing both the design and operational effectiveness of security controls.

We apply a risk-based approach to mitigate cybersecurity risks associated with our use of third-party service providers and cybersecurity considerations affect the selection and oversight of these third-party service providers. We perform due diligence on third parties that have access to our most critical systems, data or facilities that house such systems or data.

While we have experienced cybersecurity threats in the past in the normal course of business and expect to continue to experience such threats from time to time, to date, none have had a material adverse effect on our business, financial condition, results of operations or cash flows. Even with the extensive approach we take to cybersecurity, we may not be successful in preventing or mitigating a cybersecurity incident that could have a material adverse effect on us. See Item 1A. "Risk Factors - Operational Risks - Disruptions or breaches of our information systems could adversely affect us" for a discussion of cybersecurity risks.

In the event of a possible cybersecurity incident, we would immediately implement our crisis management plan, which includes the following steps:

- (1) Internal reporting and review of the incident or development
- (2) Gathering and assessing information
- (3) Developing and implementing a communications strategy
- (4) Monitoring and evaluating a response

(5) Debrief and recovery

As part of the gathering and assessment of information in step 2, we will consider various factors to make a materiality determination of the incident, including business impact, potential costs, impacted data, scope of the incident, possible litigation or regulatory implications, and reputational damage.

Item 2. Properties

Our corporate headquarters is located in Montvale, New Jersey. Our operations are conducted at our owned and leased facilities throughout the U.S. and other foreign countries. These facilities house manufacturing and warehousing operations, as well as administrative offices. We have a total of 38 locations across the world and some of these manufacturing and warehousing locations serve multiple segments.

The following is a summary of our principal properties:

Segment	Location	Administrative	Manufacturing	Warehousing
Corporate	5 U.S. cities	5	_	_
HNH	17 U.S. cities and 6 foreign countries	1	16	6
ANH	9 U.S. cities and 3 foreign countries	_	10	2
Specialty Products	6 U.S. cities and 6 foreign countries	2	8	2
Other	2 U.S. cities and 1 foreign country	_	3	

We believe that our production facilities and related machinery and equipment are well maintained, suitable for their purpose, and adequate to support our businesses.

Item 3. Legal Proceedings

In the normal course of business, we are involved in a variety of lawsuits, claims and legal proceedings, from time to time, including commercial and contract disputes, labor and employment matters, product liability claims, environmental liabilities, trade regulation matters, intellectual property disputes and tax-related matters. Further, in connection with normal operations at our plant facilities, our manufacturing sites may, from time to time, be subject to inspections or inquiries by the EPA and other agencies. To the extent any consent orders or other agreements are entered into as a result of findings from such inspections or inquiries, the Company is committed to ensuring compliance with such orders or agreements.

Information with respect to certain legal proceedings is included in Note 16, *Commitments and Contingencies*, to our Consolidated Financial Statements for the year ended December 31, 2023 contained in this Annual Report on Form 10-K, and is incorporated herein by reference.

In our opinion, we do not expect pending legal matters to have a material adverse effect on our consolidated financial position, results of operations, liquidity or cash flows.

Item 4. Mine Safety Disclosures

Not applicable.

INFORMATION ABOUT OUR EXECUTIVE OFFICERS

The following is a list of executive officers of the Company as of February 16, 2024.

Theodore L. Harris, age 58, has served as our Chairman, President and Chief Executive Officer since 2017.

C. Martin Bengtsson, age 46, has served as our Executive Vice President and Chief Financial Officer since February 2019.

Hatsuki Miyata, age 48, has served as our Executive Vice President, General Counsel and Secretary since July 2022. Ms. Miyata previously served as Deputy General Counsel and Corporate Secretary at Allegion plc, a global manufacturing company in seamless access and security products, from October 2018 to July 2022.

Frederic Boned, age 46, has served as our Senior Vice President and General Manager, Human Nutrition and Health, since November 2022. Prior to that, he served as Regional Vice President, Health Nutrition and Care – North America from January 2022 to November 2022, and Vice President, Human Nutrition and Health – North America from September 2018 to January 2022, each at DSM, a Dutch multinational corporation in the fields of health and nutrition.

Jonathan H. Griffin, age 48, has served as our Senior Vice President and General Manager, Animal Nutrition and Health, since September 2022. Prior to that, he led that business segment as our Vice President and General Manager, Animal Nutrition and Health from 2016 to September 2022.

Martin L. Reid, age 57, has served as our Senior Vice President and Chief Supply Chain Officer since September 2022. Prior to that, he served as Vice President and Chief Supply Chain Officer from January 2021 to September 2022. Mr. Reid served as Chief Supply Chain Officer at Godiva Chocolate from May 2019 to December 2020, and as Vice President, Supply Chain – North America Manufacturing at The Estee Lauder Companies, Inc., a multinational cosmetics company, prior to that.

Michael R. Sestrick, Ph.D., age 60, has served as our Senior Vice President and Chief Technology Officer since September 2022. Prior to that he served as our Vice President and Chief Technology officer from April 2017 to September 2022.

M. Brent Tignor, age 46, has served as our Senior Vice President and Chief Human Resources Officer since September 2022. Prior to that, he led the Human Resources department as our Vice President and Chief Human Resources Officer from February 2022 to September 2022 and as our Vice President, Human Resources from 2016 to February 2022.

Job L. van Gunsteren, age 48, has served as our Senior Vice President and General Manager, Specialty Products, since September 2022. Prior to that, he served as our Vice President and General Manager, Special Products from August 2019 to September 2022 and as our Director for Animal Nutrition and Health – EMEA from 2013 to 2019.

William A. Backus, age 57, has served as our Vice President and Chief Accounting Officer since October 2017. He also served as interim Chief Financial Officer from October 2018 to February 2019.

All above-listed officers except for Ms. Miyata, Mr. Boned, and Mr. Reid have been employed by the Company for more than the past five years. No family relationship exists between any of the above-listed executive officers of the Company. All officers are elected to hold office for one year or until their successors are elected and qualified or their earlier death, resignation or removal from office by the Board of Directors of the Company.

PART II

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

Market Information

The Common Stock is listed on the Nasdaq Stock Market LLC under the symbol "BCPC."

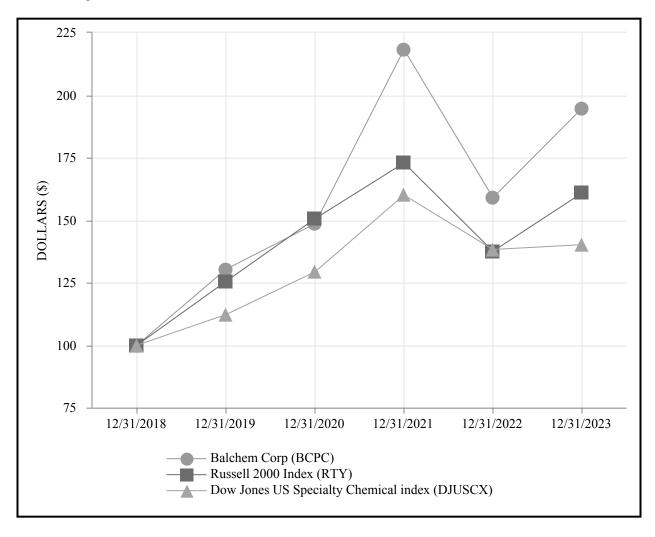
On February 2, 2024, the closing price for the Common Stock on the Nasdaq Stock Market LLC was \$143.14.

Record Holders

As of February 2, 2024, the approximate number of holders of record of Common Stock was 64. Such number does not include stockholders who hold their stock in street name.

Performance Graph

The graph below sets forth the cumulative total stockholder return on the Common Stock (referred to in the table as "BCPC") for the five years ended December 31, 2023, the overall stock market return during such period for shares comprising the Russell 2000® Index (which we believe includes companies with market capitalization similar to that of us), and the overall stock market return during such period for shares comprising the Dow Jones U.S. Specialty Chemicals Index, in each case assuming a comparable initial investment of \$100 on December 31, 2018 and the subsequent reinvestment of dividends. The Russell 2000® Index measures the performance of the shares of the 2000 smallest companies included in the Russell 3000® Index. In light of our industry segments, we do not believe that published industry-specific indices are necessarily representative of stocks comparable to us. Nevertheless, we consider the Dow Jones U.S. Specialty Chemicals Index to be potentially useful as a peer group index with respect to us. The performance of the Common Stock shown on the graph below is historical only and not necessarily indicative of future performance.



Issuer Purchase of Equity Securities

The following table summarizes the share repurchase activity for the year ended December 31, 2023:

	Total Number of Shares Purchased (1)	Av	verage Price Paid Per Share	Total Number of Shares Purchased as Part of Publicly Announced Programs ⁽²⁾	Va Pu	pproximate Dollar alue of Shares that May Yet Be irchased Under the ins or Programs ⁽²⁾⁽³⁾
January 1-31, 2023	1,343	\$	130.96	1,343	\$	90,512,611
February 1-28, 2023	26,766	\$	137.24	26,766	\$	91,178,224
March 1-31, 2023		\$	_		\$	91,178,224
First Quarter	28,109			28,109		
April 1-30, 2023	_	\$	_	_	\$	91,178,224
May 1-31, 2023	504	\$	132.26	504	\$	87,807,402
June 1-30, 2023	63	\$	134.81	63	\$	89,488,765
Second Quarter	567			567		
July 1-31, 2023	482	\$	128.54	482	\$	85,264,695
August 1-31, 2023		\$			\$	85,264,695
September 1-30, 2023	293	\$	134.00	293	\$	88,847,226
Third Quarter	775			775		
October 1-31, 2023	_	\$	_	_	\$	88,847,226
November 1-30, 2023	241	\$	119.51	241	\$	79,211,236
December 1-31, 2023	2,866	\$	144.94	2,866	\$	95,651,484
Fourth Quarter	3,107			3,107		
Total	32,558			32,558		

⁽¹⁾ The Company repurchased (withheld) shares from employees solely in connection with the tax settlement of vested shares and/or exercised stock options under the Company's omnibus incentive plan.

Item 6. [Reserved]

⁽²⁾ Our Board of Directors has approved a stock repurchase program. The total authorization under this program is 3,763,038 shares. Since the inception of the program in June 1999, a total of 3,103,106 shares have been repurchased. Other than shares withheld for tax purposes, as described in footnote 1 above, no share repurchases were made under the Company's stock repurchase program during the year ended December 31, 2023. There is no expiration for this program.

⁽³⁾ Dollar amounts in this column equal the number of shares remaining available for repurchase under the stock repurchase program as of the last date of the applicable month multiplied by the monthly average price paid per share.

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

(All amounts in thousands, except share and per share data)

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our Consolidated Financial Statements and the related notes included in this report. Refer to Part II, Item 7 in our Annual Report on Form 10-K for the fiscal year ended December 31, 2022 (filed with the SEC on February 24, 2023) for additional discussion of our financial condition and results of operations for the year ended December 31, 2021. In addition, discussion of year-to-year comparisons between 2022 and 2021 are not included in this Annual Report on Form 10-K, and can be found in "Management's Discussion and Analysis of Financial Condition and Results of Operations" in Part II, Item 7 of the Company's Annual Report on Form 10-K for the year ended December 31, 2022. Those statements in the following discussion that are not historical in nature should be considered to be forward-looking statements that are inherently uncertain. See "Cautionary Statement Regarding Forward-Looking Statements."

Overview

We develop, manufacture, distribute and market specialty performance ingredients and products for the nutritional, food, pharmaceutical, animal health, medical device sterilization, plant nutrition and industrial markets. Our three reportable segments are strategic businesses that offer products and services to different markets: Human Nutrition and Health, Animal Nutrition and Health, and Specialty Products, as more fully described in Note 11, *Segment Information*, of the consolidated financial statements. Sales and production of products outside of our reportable segments and other minor business activities are included in "Other and Unallocated".

Segment Results

We sell products for all three segments through our own sales force, independent distributors, and sales agents.

The following tables summarize consolidated net sales by segment and business segment earnings from operations for the three years ended December 31, 2023, 2022 and 2021 (in thousands):

Business Segment Net Sales

	2023	2022	2021
Human Nutrition and Health	\$ 550,751	\$ 527,131	\$ 442,733
Animal Nutrition and Health	238,326	262,297	226,776
Specialty Products	125,965	131,438	117,020
Other and Unallocated (1)	 7,397	 21,492	12,494
Total	\$ 922,439	\$ 942,358	\$ 799,023

Business Segment Earnings From Operations

	2023		2022		2021
\$	102,419	\$	82,125	\$	76,031
	27,576		36,056		26,179
	34,579		32,789		30,020
	(5,381)		(5,784)		(4,728)
\$	159,193	\$	145,186	\$	127,502
	\$ \$	\$ 102,419 27,576 34,579 (5,381)	\$ 102,419 \$ 27,576 34,579 (5,381)	\$ 102,419 \$ 82,125 27,576 36,056 34,579 32,789 (5,381) (5,784)	\$ 102,419 \$ 82,125 \$ 27,576 36,056 34,579 32,789 (5,381) (5,784)

⁽¹⁾ Other and Unallocated consists of a few minor businesses which individually do not meet the quantitative thresholds for separate presentation and corporate expenses that have not been allocated to a segment. Unallocated corporate expenses consist of: (i) Transaction and integration costs, ERP implementation costs, and unallocated legal fees totaling \$1,617, \$3,581 and \$1,264 for years ended December 31, 2023, 2022 and 2021, respectively, and (ii) Unallocated amortization expense of \$312, \$2,951, and \$2,510 for years ended December 31, 2023, 2022, and 2021, respectively, related to an intangible asset in connection with a company-wide ERP system implementation.

Acquisitions

On August 30, 2022, we completed the acquisition of Bergstrom, a leading science-based manufacturer of MSM, based in Vancouver, Washington, and on June 21, 2022, we completed the acquisition of Kappa, a leading science-based manufacturer of specialty vitamin K2 for the human nutrition industry, headquartered in Oslo, Norway. Details related to both acquisitions are disclosed in Note 2, *Significant Acquisitions*, and the "Acquisitions" section in Item 1. Business.

Results of Operations - Fiscal Year 2023 compared to Fiscal Year 2022

Summary of Consolidated Statements of Earnings

(in thousands)	2023		2022		Increase (Decrease)	% Change	
Net sales	\$ 922,439	\$	942,358	\$	(19,919)	(2.1)%	
Gross margin	302,056		280,451		21,605	7.7 %	
Operating expenses	 142,863		135,265		7,598	5.6 %	
Earnings from operations	159,193		145,186		14,007	9.6 %	
Interest and other expenses	21,932		11,437		10,495	91.8 %	
Income tax expense	 28,718		28,382		336	1.2 %	
Net earnings	\$ 108,543	\$	105,367	\$	3,176	3.0 %	

Management's discussion and analysis of the Consolidated Statements of Earnings is included below:

Net Sales

(in thousands)	 2023	 2022	Increase (Decrease)	% Change
Human Nutrition and Health	\$ 550,751	\$ 527,131	\$ 23,620	4.5 %
Animal Nutrition and Health	238,326	262,297	(23,971)	(9.1)%
Specialty Products	125,965	131,438	(5,473)	(4.2)%
Other	7,397	21,492	 (14,095)	(65.6)%
Total	\$ 922,439	\$ 942,358	\$ (19,919)	(2.1)%

- The increase in net sales within the Human Nutrition and Health segment for 2023 compared to 2022 was primarily driven by the contribution from recent acquisitions, higher sales within the minerals and nutrients business, and a favorable impact related to changes in foreign currency rates, partially offset by lower sales within food and beverage markets. Total sales for this segment grew 4.5%, with average selling prices contributing 2.6%, volume and mix contributing 1.6%, and the change in foreign currency exchange rates contributing 0.3%.
- The decrease in net sales within the Animal Nutrition and Health segment for 2023 compared to 2022 was primarily driven by lower sales in both the monogastric and ruminant species markets, partially offset by incremental sales related to the Bergstrom acquisition, and a favorable impact related to changes in foreign currency exchange rates. Total sales for this segment decreased by 9.1%, with volume and mix contributing -6.3%, average selling prices contributing -3.5%, and the change in foreign currency exchange rates contributing 0.7%.
- The decrease in Specialty Products segment sales for 2023 compared to 2022 was primarily due to lower sales in both the plant nutrition and performance gases businesses, partially offset by a favorable impact related to changes in foreign currency exchange rates. Total sales for this segment decreased by 4.2%, with volume and mix contributing -9.4%, the change in foreign currency exchange rates contributing 0.7%, and average selling prices contributing 4.5%.
- Sales relating to Other decreased from the prior year primarily due to lower demand.
- Sales may fluctuate in future periods based on macroeconomic conditions, competitive dynamics, changes in customer preferences, and our ability to successfully introduce new products to the market.

Gross Margin

(in thousands)	 2023		2022		(Decrease)	% Change
Gross margin	\$ 302,056	\$	280,451	\$	21,605	7.7 %
% of net sales	32.7 %	6	29.8 %	, 0		

Gross margin dollars increased for 2023 compared to 2022 due to a decrease in cost of goods sold of \$41,524. The 6.3% decrease in cost of goods sold was mainly driven by lower sales and certain lower manufacturing input costs.

Operating Expenses

(in thousands)	 2023		2022		(Decrease)	% Change
Operating expenses	\$ 142,863	\$	135,265	\$	7,598	5.6 %
% of net sales	15.5 %	6	14.4 %	ó		

The increase in operating expenses was primarily due to restructuring-related impairment and asset disposal charges of \$7,764, incremental operating expenses related to the Kappa and Bergstrom acquisitions of \$7,699, and higher compensation-related expenses of \$2,323, partially offset by favorable adjustments to transaction costs of \$10,828.

Earnings From Operations

(in thousands)	2023		2022		Increase Decrease)	% Change
Human Nutrition and Health	\$ 102,419	\$	82,125	\$	20,294	24.7 %
Animal Nutrition and Health	27,576		36,056		(8,480)	(23.5)%
Specialty Products	34,579		32,789		1,790	5.5 %
Other and unallocated	 (5,381)		(5,784)		403	7.0 %
Earnings from operations	\$ 159,193	\$	145,186	\$	14,007	9.6 %
% of net sales (operating margin)	17.3 %	, 0	15.4 %)		

- Human Nutrition & Health segment earnings from operations increased \$20,294 and the gross margin contribution was \$30,144. This was partially offset by an increase in operating expenses of \$9,850, primarily due to the incremental operating expenses related to the Kappa and Bergstrom acquisitions of \$7,502, restructuring-related impairment and asset disposal charges of \$6,031, and an increase in amortization of \$2,435, partially offset by favorable adjustments to transaction costs of \$7,855.
- Animal Nutrition & Health segment earnings from operations decreased \$8,480. Gross margin decreased \$7,547 primarily due to aforementioned lower sales.
- Specialty Products segment earnings from operations increased \$1,790, which was primarily driven by a 410 basis point increase in gross margin as a percent of sales. The increase in gross margin was due to higher average selling prices and decreases in certain manufacturing input costs. The increase was partially offset by an increase in operating expenses of \$897, primarily driven by higher compensation-related expenses of \$1,586.
- The increase in Other and unallocated was primarily driven by decreases of unallocated corporate expenses, partially offset by the aforementioned lower sales.

Other Expenses (Income)

(in thousands)	2023	2022	(Decrease)	% Change
Interest expense, net	\$ 22,613	\$ 10,268	\$ 12,345	120.2 %
Other, net	(681)	1,169	(1,850)	(158.3)%
	\$ 21,932	\$ 11,437	\$ 10,495	91.8 %

Interest expense for 2023 and 2022 was primarily related to outstanding borrowings under the 2022 Credit Agreement. The increase in interest expense is due to the additional borrowings in connection with the acquisitions and higher interest rates.

Income Tax Expense

(in thousands)	 2023				Increase (Decrease)	% Change
Income tax expense	\$ 28,718	\$	28,382	\$	336	1.2 %
Effective tax rate	20.9 %	6	21.2 %	, O		

The decrease in the effective tax rate was primarily due to an increase in certain tax credits.

Liquidity and Capital Resources

(All amounts in thousands, except share and per share data)

Contractual Obligations

Our short-term purchase obligations primarily include contractual arrangements in the form of purchase orders with suppliers. As of December 31, 2023, such purchase obligations were \$72,958. For debt obligations, see Note 8, *Revolving Loan*, and for operating and finance lease obligations, see Note 19, *Leases*.

We know of no current or pending demands on, or commitments for, our liquid assets that will materially affect our liquidity.

There were no material changes during the year ended December 31, 2023 outside the ordinary course of business in the specified contractual obligations set forth in our Annual Report on Form 10-K for the year ended December 31, 2022 other than the reduction of the contingent consideration liabilities to \$100.

We expect our operations to continue generating sufficient cash flow to fund working capital requirements and necessary capital investments. We are actively pursuing additional acquisition candidates. We could seek additional bank loans or access to financial markets to fund such acquisitions, our operations, working capital, necessary capital investments or other cash requirements should we deem it necessary to do so.

Cash

Cash and cash equivalents decreased to \$64,447 at December 31, 2023 from \$66,560 at December 31, 2022. At December 31, 2023, we had \$53,152 of cash and cash equivalents held by our foreign subsidiaries. We presently intend to permanently reinvest these funds in foreign operations by continuing to make additional plant related investments, and potentially invest in partnerships or acquisitions; therefore, we do not currently expect to repatriate these funds in order to fund U.S. operations or obligations. However, if these funds are needed for U.S. operations, we could be required to pay additional withholding taxes to repatriate these funds. Due to prevailing economic conditions of increased interest rates and subsequent borrowing costs, we remitted approximately \$18,000 from our Belgium subsidiary to pay down U.S. debt, resulting in income tax expense of \$20. The remittance was used to pay down U.S. debt. Working capital was \$165,751 at December 31, 2023 as compared to \$195,761 at December 31, 2022, a decrease of \$30,010. Significant cash payments during the year included net payments on the revolving loan of \$131,000, capital expenditures and intangible assets acquired of \$37,892, and the payment of the 2022 declared dividend in 2023 of \$22,872.

(in thousands)	2023		2022		Increase (Decrease)	% Change	
Cash flows provided by operating activities	\$	183,761	\$ 138,536	\$	45,225	32.6 %	
Cash flows used in investing activities		(34,813)	(416,014)		381,201	91.6 %	
Cash flows (used in) provided by financing activities		(153,321)	246,679		(400,000)	(162.2)%	

Operating Activities

The increase in cash flows from operating activities was primarily driven by the impact from changes in working capital.

Investing Activities

We continue to invest in corporate projects, improvements across all production facilities, and intangible assets. Total investments in property, plant and equipment and intangible assets were \$37,892 and \$49,945 for the years ended December 31, 2023 and 2022, respectively. Capital expenditures are projected to be approximately \$35,000 to \$40,000 for 2024. As mentioned above, we expect that our operations will continue to generate sufficient cash flow to fund the commitments for capital expenditures. These capital expenditures are part of our continuous efforts to support our growing businesses.

In 2022, we completed the acquisitions of Kappa and Bergstrom. Cash paid for these acquisitions, net of cash acquired, amounted to \$1,252 and \$365,780, for years ended December 31, 2023 and 2022, respectively.

Financing Activities

In 2023, we borrowed \$18,000 to fund the payment of the 2022 dividend and made total loan payments of \$149,000, resulting in \$240,431 available under the 2022 Credit Agreement (see Note 8, *Revolving Loan*) as of December 31, 2023.

We have an approved stock repurchase program. The total authorization under this program is 3,763,038 shares. Since the inception of the program in June 1999, a total of 3,103,106 shares have been repurchased. We intend to acquire shares from time to time at prevailing market prices if and to the extent we deem it is advisable to do so based on our assessment of corporate cash flow, market conditions and other factors. Open market repurchases of common stock could be made pursuant to a trading plan established pursuant to Rule 10b5-1 under the Securities Exchange Act of 1934, as amended, which would permit common stock to be repurchased at a time that we might otherwise be precluded from doing so under insider trading laws or self-imposed trading restrictions. We also purchase (withhold) shares from employees in connection with the tax settlement of vested shares and/or exercised stock options under the Company's omnibus incentive plan. Share repurchases are funded with existing cash on hand.

Proceeds from stock options exercised were \$5,242 and \$3,212 for the years ended December 31, 2023 and 2022, respectively. Dividend payments were \$22,872 and \$20,713 during 2023 and 2022, respectively.

Other Matters Impacting Liquidity

We have a liability of \$4,650 for uncertain tax positions, including the related interest and penalties, recorded in accordance with ASC 740-10, for which we are unable to reasonably estimate the timing of settlement, if any.

We currently provide postretirement benefits in the form of two retirement medical plans, as discussed in Note 15, *Employee Benefit Plans*. The liability recorded in other long-term liabilities on the consolidated balance sheets as of December 31, 2023 and December 31, 2022 was \$1,395 and \$1,465, respectively, and the plans are not funded. Historical cash payments made under these plans have typically been less than \$200 per year. We do not anticipate any changes to the payments made in the current year for the plans.

Balchem NV ("Chemogas") has an unfunded defined benefit plan. The plan provides for the payment of a lump sum at retirement or payments in case of death of the covered employees. The amount recorded for these obligations on our balance sheet as of December 31, 2023 and December 31, 2022 was \$420 and \$393, respectively, and was included in other long-term obligations.

We provide an unfunded, nonqualified deferred compensation plan maintained for the benefit of a select group of management or highly compensated employees. Assets of the plan are held in a rabbi trust, which are included in "Other non-current assets" on the consolidated balance sheet. They are subject to additional risk of loss in the event of bankruptcy or insolvency of the Company. The deferred compensation liability as of December 31, 2023 and December 31, 2022 was \$10,188 and \$8,543, respectively, and is included in "Other long-term obligations" on the consolidated balance sheets. The related rabbi trust assets

were \$10,188 and \$8,547 as of December 31, 2023 and December 31, 2022, respectively, and were included in "Other non-current assets" on the consolidated balance sheets.

Related Party Transactions

We were engaged in related party transactions with St. Gabriel CC Company, LLC for the years ended December 31, 2023 and December 31, 2022. Refer to Note 18, *Related Party Transactions*.

Critical Accounting Estimates

Critical accounting estimates are those estimates made in accordance with generally accepted accounting principles that involve a significant level of estimation uncertainty and have had or are reasonably likely to have a material impact on our financial condition or results of operations. Our management is required to make these critical accounting estimates and assumptions during the preparation of consolidated financial statements in accordance with accounting principles generally accepted in the United States of America. These estimates and assumptions impact the reported amount of assets and liabilities and disclosures of contingent assets and liabilities as of the date of the consolidated financial statements. Estimates and assumptions are reviewed periodically, and the effects of revisions are reflected in the consolidated financial statements in the period they are determined to be necessary. Actual results could differ from those estimates.

Our critical accounting estimates are those that require application of management's most difficult, subjective or complex judgments, often as a result of the need to make estimates about the effect of matters that are inherently uncertain and that may change in subsequent periods. Management considers the following to be critical accounting estimates.

Goodwill and Intangible Assets

The valuation methods and assumptions used in valuing goodwill and identified intangibles and assessing the impairment of goodwill and identified intangibles involves a significant level of estimation uncertainty. In addition, the assumptions used in determining the useful life of an intangible asset involves a significant level of estimation uncertainty. Refer to the Goodwill and Acquired Intangible Assets section in Note 1, *Business Description and Summary of Significant Accounting Policies*, for details related to the valuation and impairment process of both goodwill and intangible assets. Changes in market conditions, laws and regulations, and key assumptions made in future quantitative assessments, including expected cash flows, competitive factors and discount rates, could result in the recognition of an impairment charge, and in turn could have a material impact on our financial condition or results of operations in subsequent periods.

Contingent Consideration Liabilities

In connection with recent acquisitions (see Note 2, *Significant Acquisitions*), the sellers of each of the acquired entities had an opportunity to receive an additional payment if certain financial performance targets and other metrics were met, thereby requiring us to record contingent consideration liabilities on our balance sheet. The valuation methods and assumptions used in assessing the contingent consideration liabilities involve a significant level of estimation uncertainty, however, as of December 31, 2023, the earn-out periods concluded and the Company recorded a contingent consideration liability of \$100.

Income Taxes

The valuation methods and assumptions used in calculating income taxes, deferred tax assets and liabilities, and valuation allowances involve a significant level of estimation uncertainty. Refer to the Income Taxes in Note 1, *Business Description and Summary of Significant Accounting Policies*, for details. Changes in the assumptions such as our forecast of future market growth, forecasted earnings, future taxable income, and prudent and feasible tax planning strategies could result in income taxes adjustments, and in turn could have a material impact on our financial condition or results of operations in subsequent periods.

Significant Accounting Policies and Recent Accounting Pronouncements

See Note 1, *Business Description and Summary of Significant Accounting Policies*, in Notes to Consolidated Financial Statements regarding significant accounting policies and recent accounting pronouncements.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

Our cash and cash equivalents are held primarily in checking accounts, certificates of deposit, and money market investment funds. In 2019, we entered into an interest rate swap and cross-currency swap for hedging purposes. These derivatives settled on their maturity date of June 27, 2023. Refer to details noted below (see Note 20, *Derivative Instruments and Hedging Activities*). Additionally, as of December 31, 2023, our borrowings were under a revolving loan bearing interest at a fluctuating rate as defined by the 2022 Credit Agreement plus an applicable rate (see Note 8, *Revolving Loan*). The applicable rate is based upon our consolidated net leverage ratio, as defined in the 2022 Credit Agreement. A 100 basis point increase or decrease in interest rates, applied to our borrowings at December 31, 2023, would result in an increase or decrease in annual interest expense and a corresponding reduction or increase in cash flow of approximately \$3,096. We are exposed to commodity price risks, including prices of our primary raw materials. Our objective is to seek a reduction in the potential negative earnings impact of raw material pricing arising in our business activities. We manage these financial exposures, where possible, through pricing and operational means. Our practices may change as economic conditions change.

Interest Rate Risk

We have exposure to market risk for changes in interest rates, including the interest rate relating to the 2022 Credit Agreement. In the second quarter of 2019, we began to manage our interest rate exposure through the use of derivative instruments. These derivatives were utilized for risk management purposes, and were not used for trading or speculative purposes. We hedged a portion of our floating interest rate exposure using an interest rate swap (see Note 20, *Derivative Instruments and Hedging Activities*). This derivative settled on its maturity date of June 27, 2023.

Foreign Currency Exchange Risk

The financial condition and results of operations of our foreign subsidiaries are reported in local currencies and then translated into U.S. dollars at the applicable currency exchange rate for inclusion in our consolidated financial statements. Therefore, we are exposed to foreign currency exchange risk related to these currencies. In 2019, we entered into a cross-currency swap, with a notional amount of \$108,569, which we designated as a hedge of our net investment in Chemogas (see Note 20, *Derivative Instruments and Hedging Activities*). This derivative settled on its maturity date of June 27, 2023.

Item 8. Financial Statements and Supplementary Data

Index to Financial Statements and Supplementary Data: Page Numbers Report of Independent Registered Public Accounting Firm (PCAOB ID: 49) 29 Consolidated Balance Sheets as of December 31, 2023 and 2022 31 Consolidated Statements of Earnings for the years ended December 31, 2023, 2022 and 2021 32 Consolidated Statements of Comprehensive Income for the years ended December 31, 2023, 2022 and 2021 33 Consolidated Statements of Stockholders' Equity for the years ended December 31, 2023, 2022 and 2021 34 Consolidated Statements of Cash Flows for the years ended December 31, 2023, 2022 and 2021 35 Notes to Consolidated Financial Statements 36 Schedule II - Valuation and Qualifying Accounts for the years ended December 31, 2023, 2022 and 2021 67

Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of Balchem Corporation

Opinions on the Financial Statements and Internal Control Over Financial Reporting

We have audited the accompanying consolidated balance sheets of Balchem Corporation and its subsidiaries (the Company) as of December 31, 2023 and 2022, and the related consolidated statements of earnings, comprehensive income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2023, and the related notes and schedule listed at Item 8 (collectively, the financial statements). We also have audited 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 in 2013.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and 2022, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2023, in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective 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 in 2013.

Basis for Opinions

The Company's management is responsible for these financial statements, 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 financial statements and an opinion on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with 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, and whether effective internal control over financial reporting was maintained in all material respects.

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

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.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current period audit of the 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 a critical audit matter does not alter in any way our opinion on the 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.

Valuation of Reporting Units for Goodwill Impairment Testing

As described in Notes 1 and 6 to the financial statements, the Company's goodwill balance was \$779 million as of December 31, 2023. The Company performed an annual goodwill impairment test as of October 1, 2023 using a quantitative evaluation for each of its reporting units. The Company determines the fair value of its reporting units using the income approach, based on a discounted cash flow valuation model. To test for goodwill impairment, the Company compares the fair value of each reporting unit to its carrying value. When determining the fair value of each reporting unit, management makes significant estimates and assumptions related to a number of factors. The Company considers the impact of factors that are specific to each of the reporting units such as industry and economic changes as well as projected sales and expense growth rates based upon annual budgets and longer-range strategic plans, which are highly sensitive to changes in domestic and foreign economic conditions, and the selection of appropriate discount rates.

Given the significant estimates and assumptions management makes to determine the fair value of the reporting units and the sensitivity of the operations to changes in U.S. and foreign economic conditions, we identified management's assumptions related to the sales and expense growth rates, the discount rates, and the terminal value calculation utilized in the valuation of the reporting units within the Company's goodwill impairment tests as a critical audit matter. Auditing the reasonableness of management's estimates and assumptions required a high degree of auditor judgment and an increased extent of effort, including the need to involve our fair value specialists.

Our audit procedures related to sales and expense growth rates, discount rates, and the terminal value calculation utilized in the valuation of the Company's reporting units included the following, among others:

- We obtained an understanding of the relevant controls related to the valuation of the Company's reporting units and tested such controls for design and operating effectiveness, including management review controls related to sales and expense growth rates and the selection of appropriate discount rates.
- We evaluated the reasonableness of management's forecasts of sales and expense growth rates by comparing the forecasts to (1) the historical results, (2) internal communications to management and the Board of Directors, and (3) external communications made by management to analysts and investors, as applicable.
- We evaluated changes in the regulatory environment using industry reports containing analysis of the Company's markets and assessed whether these changes were reflected in management's forecasts of sales and expense growth rates.
- With the assistance of our fair value specialists, we evaluated the reasonableness of the discount rates and tested the
 relevance and reliability of source information underlying the determination of the discount rates, tested the
 mathematical accuracy of the calculation, and developed a range of independent estimates and compared those to the
 discount rates selected by management.
- With the assistance of our fair value specialists, we evaluated the reasonableness and tested the mathematical accuracy of the terminal value calculations.

/s/ RSM US LLP

We have served as the Company's auditor since 2004.

New York, New York February 16, 2024

Consolidated Balance Sheets December 31, 2023 and 2022

(Dollars in thousands, except share and per share data)

(Donars in inousanas, except share and per share adia)	2023	2022
Current assets:	Φ (4.447	Ф ((,7,6)
Cash and cash equivalents	\$ 64,447	\$ 66,560
Accounts receivable, net of allowance for doubtful accounts of \$908 and \$1,226 at December 31, 2023 and 2022, respectively	125,284	131,578
Inventories, net	109,521	119,668
Prepaid expenses	7,798	4,903
Derivative assets	7,750	5,993
Other current assets	7,192	7,101
Total current assets	314,242	335,803
Property, plant and equipment, net	276,039	271,355
Goodwill	778,907	769,509
Intangible assets with finite lives, net	191,212	213,295
Right of use assets - operating leases	17,763	17,094
Right of use assets - finance lease	2,101	2,338
Other non-current assets	16,947	15,118
Total assets		\$ 1,624,512
Liabilities and Stockholders' Equity		
Current liabilities:		
Trade accounts payable	\$ 55,503	\$ 57,322
Accrued expenses	40,855	36,745
Accrued compensation and other benefits	17,228	16,544
Dividends payable	25,717	23,129
Income tax payable	4,967	2,280
Operating lease liabilities - current	3,949	3,796
Finance lease liabilities - current	272	226
Total current liabilities	148,491	140,042
Revolving loan	309,569	440,569
Deferred income taxes	52,046	62,784
Operating lease liabilities - non-current	14,601	13,806
Finance lease liabilities - non-current	1,943	2,213
Other long-term obligations	16,577	26,814
Total liabilities	543,227	686,228
Commitments and contingencies (Note 16)		
Stockholders' equity:		
Preferred stock, \$25 par value. Authorized 2,000,000 shares; none issued and outstanding	_	_
Common stock, \$.0667 par value. Authorized 120,000,000 shares; 32,254,728 shares issued and outstanding at December 31, 2023 and 32,152,787 shares issued and outstanding at December 31, 2022, respectively	2,152	2,145
Additional paid-in capital	145,653	128,806
Retained earnings	897,488	814,487
Accumulated other comprehensive income (loss)	8,691	(7,154)
Total stockholders' equity	1,053,984	938,284
Total liabilities and stockholders' equity	\$ 1,597,211	\$ 1,624,512
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See accompanying notes to consolidated financial statements.

Consolidated Statements of Earnings

Years Ended December 31, 2023, 2022 and 2021

(In thousands, except per share data)

	2023	 2022	2021
Net sales	\$ 922,439	\$ 942,358	\$ 799,023
Cost of sales	620,383	661,907	555,849
Gross margin	302,056	280,451	243,174
Operating expenses:			
Selling expenses	74,397	67,409	60,413
Research and development expenses	15,049	12,191	13,524
General and administrative expenses	53,417	55,665	41,735
	142,863	135,265	115,672
Earnings from operations	159,193	145,186	127,502
Other expenses:			
Interest expense, net	22,613	10,268	2,456
Other (income) expense, net	(681)	1,169	(187)
	21,932	11,437	2,269
Earnings before income tax expense	137,261	133,749	125,233
Income tax expense	28,718	28,382	29,129
Net earnings	\$ 108,543	\$ 105,367	\$ 96,104
Basic net earnings per common share	\$ 3.38	\$ 3.29	\$ 2.98
Diluted net earnings per common share	\$ 3.35	\$ 3.25	\$ 2.94

See accompanying notes to consolidated financial statements.

Consolidated Statements of Comprehensive Income Years Ended December 31, 2023, 2022 and 2021

(In thousands)

	2023		2023 2022			2021
Net earnings	\$	108,543	\$	105,367	\$	96,104
Other comprehensive income (loss), net of tax:						
Net foreign currency translation adjustment		16,809		(4,799)		(11,255)
Unrealized (loss) gain on cash flow hedge, net of taxes of \$341, \$868, and \$654 at December 31, 2023, 2022, and 2021, respectively		(1,065)		2,696		2,053
Net change in postretirement benefit plan, net of taxes of \$39, \$24, and \$13 at December 31, 2023, 2022 and 2021, respectively		101		(58)		36
Other comprehensive income (loss), net of tax		15,845		(2,161)		(9,166)
Comment	•	124 200	0	102.207	Φ.	07.020
Comprehensive income	3	124,388	\$	103,206	3	86,938

See accompanying notes to consolidated financial statements.

BALCHEM CORPORATION Consolidated Statements of Stockholders' Equity Years Ended December 31, 2023, 2022 and 2021

(Dollars in thousands, except share and per share data)

		Total		Accumulated Other			Additional
	Stock E	Stockholders' Equity	Retained Earnings	Comprehensive Income (Loss)	Common Stock Shares An	Stock Amount	Paid-in Capital
Balance - December 31, 2020	∽	828,233	\$ 656,740	\$ 4,173	32,372,621 \$	2,160	\$ 165,160
Net earnings		96,104	96,104	I	I	I	1
Other comprehensive loss		(9,166)		(9,166)			
Dividends (\$.64 per share)		(20,706)	(20,706)	I	I	I	
Repurchases of common stock		(35,239)			(249,848)	(17)	(35,222)
Shares and options issued under stock plans		17,789			164,377	11	17,778
Balance - December 31, 2021		877,015	732,138	(4,993)	32,287,150	2,154	147,716
Net earnings		105,367	105,367	I	I	I	
Other comprehensive loss		(2,161)		(2,161)			
Dividends (\$.71 per share)		(23,018)	(23,018)	1	1		
Repurchases of common stock		(35,423)			(252,304)	(16)	(35,407)
Shares and options issued under stock plans		16,504			117,941	7	16,497
Balance - December 31, 2022		938,284	814,487	(7,154)	32,152,787	2,145	128,806
Net earnings		108,543	108,543	I	1	1	
Other comprehensive income		15,845		15,845			
Dividends (\$.79 per share)		(25,542)	(25,542)	1	1		
Repurchases of common stock, including excise tax *		(4,514)	1	1	(32,558)	(2)	(4,512)
Shares and options issued under stock plans		21,368			134,499	6	21,359
Balance - December 31, 2023	S	1,053,984	\$ 897,488	\$ 8,691	32,254,728	2,152	\$ 145,653

^{*} On August 16, 2022, the U.S. government enacted the Inflation Reduction Act (the "IRA") into law. The IRA imposes a 1% excise tax on share repurchases, which is effective for repurchases completed after December 31, 2022. The excise tax is recorded within equity as part of the repurchase of the common stock.

Consolidated Statements of Cash Flows

Years Ended December 31, 2023, 2022 and 2021

(In thousands)

	2023	 2022	2021
Cash flows from operating activities: Net earnings	\$ 108,543	\$ 105,367	\$ 96,104
Adjustments to reconcile net earnings to net cash provided by operating activities:			
Depreciation and amortization	54,935	51,848	48,879
Stock compensation expense	16,052	13,224	10,802
Deferred income taxes	(10,814)	(8,362)	(5,944)
Provision for doubtful accounts	37	401	180
Unrealized (gain) loss on foreign currency transactions and deferred compensation	(733)	914	(384)
Asset impairment charge and (gain) loss on disposal of assets	7,031	366	(53)
Change in fair value of contingent consideration liability	(11,300)	_	_
Changes in assets and liabilities, net of acquired balances			
Accounts receivable	6,969	(3,618)	(20,700)
Inventories	10,530	(7,804)	(21,023
Prepaid expenses and other current assets	(3,540)	1,870	(881)
Accounts payable and accrued expenses	3,552	(15,543)	47,067
Income taxes	2,194	296	4,787
Other	305	(423)	1,680
Net cash provided by operating activities	183,761	138,536	160,514
ash flows from investing activities:			
Cash paid for acquisitions, net of cash acquired	(1,252)	(365,780)	_
Capital expenditures and intangible assets acquired	(37,892)	(49,945)	(37,363)
Proceeds from sale of assets	1,881	206	318
Proceeds from settlement of net investment hedge	2,740	_	
Proceeds from insurance		_	1,831
Investment in affiliates	(290)	(495)	(86)
Net cash used in investing activities	(34,813)	(416,014)	(35,300)
Cash flows from financing activities:			
Proceeds from revolving loan	18,000	435,000	5,000
Principal payments on revolving debt	(149,000)	(103,000)	(60,000)
Principal payment on acquired debt	_	(30,988)	
Cash paid for financing costs		(1,232)	_
Principal payments on finance lease	(222)	(177)	(159)
Proceeds from stock options exercised	5,242	3,212	6,943
Dividends paid	(22,872)	(20,713)	(18,723)
Repurchases of common stock	(4,469)	(35,423)	(35,239)
Net cash (used in) provided by financing activities	 (153,321)	246,679	(102,178)
Effect of exchange rate changes on cash	2,260	(5,880)	(4,368)
Decrease) increase in cash and cash equivalents	(2,113)	(36,679)	18,668
Cash and cash equivalents beginning of period	66,560	103,239	84,571
Cash and cash equivalents end of period	\$ 64,447	\$ 66,560	\$ 103,239

Supplemental Cash Flow Information - see Note 13 See accompanying notes to consolidated financial statements.

Notes to Consolidated Financial Statements

(All amounts in thousands, except share and per share data)

NOTE 1 - BUSINESS DESCRIPTION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Business Description

Balchem Corporation ("Balchem" or the "Company"), including, unless the context otherwise requires, its wholly-owned subsidiaries, incorporated in the State of Maryland in 1967, is engaged in the development, manufacture and marketing of specialty performance ingredients and products for the food, nutritional, feed, pharmaceutical, agricultural, and medical sterilization industries.

Principles of Consolidation

The consolidated financial statements include the financial statements of the Company and its subsidiaries. All significant intercompany balances and transactions have been eliminated in consolidation. Certain reclassifications have been made to prior period amounts to conform with the current period's presentation.

Revenue Recognition

Revenue for each of the Company's business segments is recognized when control of the promised goods is transferred to our customers, in an amount that reflects the consideration we expect to realize in exchange for those goods. The Company reports amounts billed to customers related to shipping and handling as revenue and includes costs incurred for shipping and handling in cost of sales. Amounts received for unshipped merchandise are not recognized as revenue but rather they are recorded as customer deposits and are included in current liabilities. In instances of shipments made on consignment, revenue is recognized when control is transferred to the customer.

In accordance with Accounting Standards Codification ("ASC") 606, Revenue from Contracts with Customers, revenue-generating contracts are assessed to identify distinct performance obligations, allocating transaction prices to those performance obligations, and criteria for satisfaction of a performance obligation. The standard allows for recognition of revenue only when we have satisfied a performance obligation through transferring control of the promised good or service to a customer. Control, in this instance, may mean the ability to prevent other entities from directing the use of, and receiving benefit from, a good or service. The standard indicates that an entity must determine at contract inception whether it will transfer control of a promised good or service over time or satisfy the performance obligation at a point in time through analysis of the following criteria: (i) the entity has a present right to payment, (ii) the customer has legal title, (iii) the customer has physical possession, (iv) the customer has the significant risks and rewards of ownership and (v) the customer has accepted the asset. The Company assesses collectability based primarily on the customer's payment history and on the creditworthiness of the customer.

Cash and Cash Equivalents

The Company considers all highly liquid investments with a maturity of three months or less to be cash equivalents. The Company has funds in its cash accounts that are with third party financial institutions, primarily in certificates of deposit and money market funds. The Company's balances of cash and cash equivalents in the U.S. and other countries exceed the insurance limits of the Federal Deposit Insurance Corporation ("FDIC") and other relevant insurance limits in other countries.

Accounts Receivable

Credit terms are granted in the normal course of business to the Company's customers and on-going credit evaluations are performed on the Company's customers. In June 2016, the FASB issued Accounting Standards Update ("ASU") No. 2016-13, "Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments", which requires that credit losses be reported based on expected losses instead of the incurred loss model. Based on this ASU, customers' credit limits are adjusted based upon their reasonably expected credit worthiness which is determined through review of their payment history, their current credit information, and any foreseeable future events. Collections and payments from customers are continuously monitored and allowances for doubtful accounts for estimated losses resulting from the inability of the Company's customers to make required payments are maintained. Estimated losses are based on historical experience, any specific customer collection issues identified, and any reasonably expected future adverse events. If the financial condition of our customers were to deteriorate resulting in an impairment of their ability to make payments, additional allowances and related bad debt expense may be required.

Inventories

Inventories are valued at the lower of cost (first in, first out) or net realizable value and have been reduced by an allowance for excess or obsolete inventories. Cost elements include material, labor and manufacturing overhead.

Property, Plant and Equipment and Depreciation

Property, plant and equipment are stated at cost.

Depreciation of plant and equipment is calculated using the straight-line method over the estimated useful lives of the assets as follows:

Buildings	15-25 years
Equipment	2-28 years

Expenditures for repairs and maintenance are charged to expense. Alterations and major overhauls that extend the lives or increase the capacity of plant assets are capitalized. When assets are retired or otherwise disposed of, the cost of the assets and the related accumulated depreciation are removed from the accounts and any resultant gain or loss is included in earnings from operations.

Business Concentrations

Financial instruments that subject the Company to credit risk consist primarily of accounts receivable and money market investments. Investments are managed within established guidelines to mitigate risks. Accounts receivable subject the Company to credit risk partially due to the concentration of amounts due from customers. The Company extends credit to its customers based upon an evaluation of the customers' financial condition and credit histories. In 2023, 2022 and 2021, no customer accounted for more than 10% of total net sales or accounts receivable.

Post-employment Benefits

We provide life insurance, health care benefits, and defined benefit pension plan payments for certain eligible retirees and health care benefits for certain retirees' eligible survivors. The costs and obligations related to these benefits reflect our assumptions as to health care cost trends and key economic conditions including discount rates, expected rate of return on plan assets, and expected salary increases. The cost of providing plan benefits also depends on demographic assumptions including retirements, mortality, turnover, and plan participation. If actual experience differs from these assumptions, the cost of providing these benefits could increase or decrease.

In accordance with ASC 715, "Compensation-Retirement Benefits," we are required to recognize the overfunded or underfunded status of a defined benefit post retirement plan (other than a multiemployer plan) as an asset or liability in our statement of financial position, and to recognize changes in that funded status in the year in which the changes occur through comprehensive income.

Goodwill and Acquired Intangible Assets

Goodwill represents the excess of purchase price over the fair value of net assets acquired in accordance with ASC 805, "Business Combinations". Goodwill and intangible assets acquired in a business combination that have indefinite useful lives are not amortized but are instead assessed for impairment annually and more frequently if events and circumstances indicate that the assets might be impaired, in accordance with the provisions of ASC 350, "Intangibles-Goodwill and Other". The Company performed its annual test as of October 1. ASC 350 also requires that intangible assets with estimable useful lives be amortized over their respective estimated useful lives to their estimated residual values, and reviewed for impairment if events and circumstances indicate that the assets might be impaired.

In January 2017, the FASB issued ASU No. 2017-04, "Simplifying the Test for Goodwill Impairment" ("ASU 2017-04"), which addresses changes to the testing for goodwill impairment by eliminating Step 2 of the process. In accordance with this update, a goodwill impairment test will be performed by comparing the fair value of a reporting unit with its carrying amount. An impairment charge should be recognized for the amount by which the carrying amount exceeds the reporting unit's fair value.

As of October 1, 2023 and 2022, the Company opted to bypass the qualitative assessment and proceeded directly to performing the quantitative goodwill impairment test. The Company assessed the fair values of its reporting units by utilizing the income approach, based on a discounted cash flow valuation model as the basis for its conclusions. The Company's estimates of future cash flows included significant management assumptions such as revenue growth rates, operating margins, discount rates, estimated terminal values and future economic and market conditions. The Company's assessment concluded that the fair values of the reporting units exceeded their carrying amounts, including goodwill. Accordingly, the goodwill of the reporting units was not considered impaired as of October 1, 2023 and 2022. The Company may resume performing the qualitative assessment in subsequent periods.

The Company had goodwill in the amount of \$778,907 and \$769,509 as of December 31, 2023 and 2022, respectively, subject to the provisions of ASC 350, "Intangibles-Goodwill and Other."

Goodwill at December 31, 2021	\$ 523,949
Goodwill as a result of the Kappa acquisition	216,295
Goodwill as a result of the Bergstrom acquisition	31,209
Impact due to change in foreign exchange rates	 (1,944)
Goodwill at December 31, 2022	769,509
Goodwill as a result of the Bergstrom acquisition	341
Impact due to change in foreign exchange rates	9,057
Goodwill at December 31, 2023	\$ 778,907

	ember 31, 2023	December 31, 2022		
HNH	\$ 673,207	\$	665,804	
ANH	24,469		24,218	
Specialty Products	81,175		79,429	
Other and Unallocated	56		58	
Total	\$ 778,907	\$	769,509	

The following intangible assets with finite lives are stated at cost and are amortized either on an accelerated basis or on a straight-line basis over the following estimated useful lives:

	Amortization Period (in years)
Customer relationships and lists	10 - 20
Trademarks and trade names	2 - 17
Developed technology	5 - 12
Regulatory registration costs	5 - 10
Patents and trade secrets	15 - 17
Other	2 - 18

Intangible assets with finite lives are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds its estimated future cash flows, an impairment charge is recognized by the amount by which the carrying amount of the asset exceeds the fair value of the asset, which is generally based on discounted cash flows. The useful life of an intangible asset is based on our assumptions regarding expected use of the asset; the relationship of the intangible asset to another asset or group of assets; any legal, regulatory or contractual provisions that may limit the useful life of the asset or that enable renewal or extension of the asset's legal or contractual life without substantial cost; the effects of obsolescence, demand, competition and other economic factors; and the level of maintenance expenditures required to obtain the expected future cash flows from the asset and their related impact on the asset's useful life. If events or circumstances indicate that the life of an intangible asset has changed, it could result in higher future amortization charges or recognition of an impairment loss. For the year ended December 31, 2023, there were no triggering events which required intangible asset impairment reviews.

Income Taxes

Income taxes are accounted for under the asset and liability method. Deferred tax assets and liabilities are measured using enacted tax rates in effect for the fiscal year in which those temporary differences are expected to be recovered or settled. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized. In evaluating our ability to recover our deferred tax assets, in full or in part, we consider all available positive and negative evidence, including our past operating results, our forecast of future market growth, forecasted earnings, future taxable income, and prudent and feasible tax planning strategies. The assumptions utilized in determining future taxable income require judgment and are consistent with the plans and estimates we are using to manage the underlying businesses.

We recognize uncertain income tax positions taken on income tax returns at the largest amount that is more likely than not to be sustained upon audit by the relevant taxing authority. An uncertain income tax position will not be recognized if it has less than a fifty percent likelihood of being sustained.

Our policy for recording interest and penalties associated with uncertain tax positions is to record such items as a component of our income tax provision.

Use of Estimates

Management is required to make certain estimates and assumptions during the preparation of consolidated financial statements in accordance with accounting principles generally accepted in the United States of America. These estimates and assumptions impact the reported amount of assets and liabilities and disclosures of contingent assets and liabilities as of the date of the consolidated financial statements and revenues and expenses during the reporting period. Estimates and assumptions are reviewed periodically, and the effects of revisions are reflected in the consolidated financial statements in the period they are determined to be necessary. Actual results could differ from those estimates.

Fair Value of Financial Instruments

The Company has a number of financial instruments, none of which are held for trading purposes. The estimated fair value amounts have been determined by the Company using available market information and appropriate valuation methodologies. Considerable judgment is required in interpreting market data to develop the estimates of fair value, and, accordingly, the estimates are not necessarily indicative of the amounts that the Company could realize in a current market exchange. The carrying value of debt approximates fair value as the interest rate is based on market and the Company's consolidated leverage ratio. The Company's financial instruments also include cash equivalents, accounts receivable, accounts payable and accrued liabilities, and are carried at cost which approximates fair value due to the short-term maturity of these instruments.

In addition, non-current assets includes rabbi trust funds related to the Company's deferred compensation plan. The money market and rabbi trust funds are valued using level one inputs, as defined by ASC 820, "Fair Value Measurement."

The Company also had derivative financial instruments, consisting of a cross-currency swap and an interest rate swap, which were included in derivative assets and derivative liabilities, in the consolidated balance sheets (see Note 20, *Derivative Instruments and Hedging Activities*). The fair values of these derivative instruments were determined based on Level 2 inputs, using significant inputs that were observable either directly or indirectly, including interest rate curves and implied volatilities. These derivatives were settled on their maturity date on June 27, 2023 and there were no other derivatives outstanding as of December 31, 2023.

Cost of Sales

Cost of sales are primarily comprised of raw materials and supplies consumed in the manufacture of product, as well as manufacturing labor, maintenance labor, depreciation expense, and direct overhead expense necessary to convert purchased materials and supplies into finished product. Cost of sales also includes inbound freight costs, outbound freight costs for shipping products to customers, warehousing costs, quality control and obsolescence expense.

Selling, General and Administrative Expenses

Selling expenses consist primarily of compensation and benefit costs, amortization of customer relationships and lists, trade promotions, advertising, commissions and other marketing costs. General and administrative expenses consist primarily of payroll and benefit costs, occupancy and operating costs of corporate offices, depreciation and amortization expense on non-manufacturing assets, information systems costs and other miscellaneous administrative costs.

Research and Development

Research and development costs are associated directly with the Company's efforts to develop, design, and enhance its products, services, technologies, or processes. Such costs are expensed as incurred.

Net Earnings Per Common Share

Basic net earnings per common share is calculated by dividing net earnings by the weighted average number of common shares outstanding during the period. Diluted net earnings per common share is calculated in a manner consistent with basic net earnings per common share except that the weighted average number of common shares outstanding also includes the dilutive effect of stock options outstanding, unvested restricted stock, and unvested performance shares (using the treasury stock method).

Stock-based Compensation

The Company has stock-based employee compensation plans, which are described more fully in Note 3, *Stockholders' Equity*. The Company accounts for stock-based compensation in accordance with ASC 718, "Compensation-Stock Compensation," which requires all share-based payments, including grants of stock options, to be recognized in the statement of earnings as an operating expense, based on their fair values. The Company estimates the fair value of each option award on the date of grant using either the Black-Scholes model or the Binomial model, whichever is deemed to be most appropriate. Estimates of and assumptions about forfeiture rates, terms, volatility, interest rates and dividend yields are used to calculate stock-based compensation. A significant change to these estimates could materially affect the Company's operating results.

Impairment of Long-lived Assets

Long-lived assets, such as property, plant, and equipment, and purchased intangibles subject to amortization, are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset group to estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds its estimated future cash flows, an impairment charge is recognized by the amount by which the carrying amount of the asset exceeds the fair value of the asset, which is generally based on discounted cash flows.

Derivative Instruments and Hedging Activities

The Company is exposed to market fluctuations in interest rates as well as variability in foreign exchange rates. In May 2019, the Company entered into an interest rate swap with JP Morgan Chase, N.A. (the "Swap Counterparty") and a cross-currency swap with JP Morgan Chase, N.A. (the "Bank Counterparty"). The Company's primary objective for holding derivative financial instruments was to manage interest rate risk and foreign currency risk. The Company does not enter into derivative financial instruments for trading or speculative purposes.

The derivative instruments were with the above single counterparty and were subject to a contractual agreement that provided for the net settlement of all contracts through a single payment in a single currency in the event of default on or termination of any one contract. As such, the derivative instruments were categorized as a master netting arrangement and presented as a net derivative asset or derivative liability on the consolidated balance sheet as of December 31, 2022. The Company settled its derivative instruments on their maturity date of June 27, 2023 and had no other derivatives outstanding as of December 31, 2023.

On a quarterly basis through their maturity, we assessed the effectiveness of the hedging relationships for the interest rate swap and cross-currency swap by reviewing the critical terms indicated in the applicable agreement. The hedging relationships were determined to be highly effective. As such, the net change in fair values of the interest rate swap, that qualified as a cash flow hedge, was recorded in accumulated other comprehensive income/(loss) and subsequently reclassified into interest expense as interest payments were made on our debt. For the cross-currency swap, the amounts that have not yet been recognized in earnings remain in the cumulative translation adjustment section of accumulated other comprehensive income until the hedged net investment is sold or liquidated in accordance with paragraphs 815-35-35-5A, "Derivatives and Hedging - Net Investment Hedges", and 830-30-40-1 through 40-1A, "Foreign Currency Matters - Derecognition". Refer to Note 20, *Derivative Instruments and Hedging Activities*, for detailed information about our derivative financial instruments.

Recently Issued Accounting Pronouncements

In December 2023, the FASB issued ASU 2023-09, "Income Taxes (Topic 740) - Improvements to Income Tax Disclosures." The new guidance is intended to enhance the transparency and decision usefulness of income tax disclosures by requiring disaggregated information about a reporting entity's effective tax rate reconciliation and information on income taxes paid. The amendment is effective for fiscal years beginning after December 15, 2024, with early adoption permitted. The amendment in this Update should be applied on a prospective basis, with retrospective application permitted. The Company is in the process of evaluating the impact that the adoption of ASU 2023-09 will have to the financial statements and related disclosures.

In November 2023, the FASB issued ASU 2023-07, "Segment Reporting (Topic 280) - Improvements to Reportable Segment Disclosures." The ASU expands reportable segment disclosure requirements by requiring disclosures of significant reportable segment expenses that are regularly provided to the Chief Operating Decision Maker ("CODM") and included within each reported measure of a segment's profit or loss. The ASU also requires disclosure of the title and position of the individual identified as the CODM and an explanation of how the CODM uses the reported measures of a segment's profit or loss in assessing segment performance and deciding how to allocate resources. Additionally, ASU 2023-07 requires all segment profit or loss and assets disclosures to be provided on an annual and interim basis. ASU 2023-07 is effective for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning December 15, 2024. Early adoption is permitted and the amendments must be applied retrospectively to all prior periods presented. The adoption of this guidance will not affect the Company's consolidated results of operations, financial position or cash flows. The Company is currently evaluating the effect the guidance will have on its disclosures.

In August 2023, the FASB issued ASU 2023-05, "Business Combinations - Joint Venture Formations (Subtopic 805-60): Recognition and Initial Measurement." The new guidance applies to the formation of a joint venture and requires a joint venture to initially measure all contributions received upon its formation at fair value. The guidance is intended to reduce diversity in practice and is applicable to joint venture entities with a formation date on or after January 1, 2025 on a prospective basis. While ASU 2023-05 is not currently applicable to Balchem, the Company will apply this guidance in future reporting periods after the guidance is effective to any future arrangements meeting the definition of a joint venture.

In March 2020, the FASB issued ASU 2020-04, "Reference Rate Reform (Topic 848): Facilitation of the Effects of Reference Rate Reform on Financial Reporting", and in December 2022 subsequently issued ASU 2022-06, "Reference Rate Reform (Topic 848): Deferral of the Sunset Date of Topic 848." These ASU's provide temporary optional guidance to ease the potential burden in accounting for reference rate reform. The Standards Updates provide optional expedients and exceptions for applying accounting principles generally accepted in the United States to contract modifications and hedging relationships that reference LIBOR or another reference rate that are expected to be discontinued. The Standards Updates were effective upon issuance and can generally be applied through December 31, 2024. Due to the discontinuation of LIBOR and under the relief provided by Topic 848, during the third quarter of 2022, the Company modified its interest rate swap and replaced LIBOR with 1-month CME Term SOFR. The modification of the agreement did not have a significant impact on the Company's consolidated financial statements and disclosures. The interest rate swap matured on June 27, 2023.

NOTE 2 – SIGNIFICANT ACQUISITIONS

Cardinal Associates Inc. ("Bergstrom")

On August 30, 2022, the Company's wholly-owned subsidiary Albion Laboratories, Inc. ("Albion") entered into a Stock Purchase Agreement, and closed on such transaction with Cardinal Associates Inc. ("Cardinal"), a corporation organized under the laws of the State of Washington, pursuant to which Albion acquired Cardinal and its Bergstrom Nutrition business (collectively, "Bergstrom"). Bergstrom Nutrition is a leading science-based manufacturer of MSM, based in Vancouver, Washington. MSM is a widely used nutritional ingredient with strong scientific evidence supporting its benefits for joint health, sports nutrition, skin and beauty, healthy aging, and pet health. The addition of OptiMSM®, Bergstrom Nutrition's MSM brand, to the Company's portfolio within the Human Nutrition and Health and Animal Nutrition and Health segments provides a synergistic scientific advantage in Balchem's key strategic therapeutic focus areas such as longevity and performance and is a strong fit with Balchem's specialty, science-backed mineral products.

The Company made payments of \$72,143 for the acquisition, amounting to \$71,937 to the former shareholders or on behalf of the former shareholders and \$206 to pay off Bergstrom's bank debt. Net of cash acquired of \$773, total payments made to the former shareholders or on behalf of the former shareholders of Bergstrom were \$71,164. The acquisition was primarily financed through the 2022 Credit Agreement (see Note 8, *Revolving Loan*). In connection with this transaction, the former shareholders of Bergstrom had an opportunity to receive an additional payment in 2024 if certain financial performance targets and other metrics were met. As of December 31, 2023, the earn-out periods concluded and the Company recorded a contingent consideration liability of \$100 which was included in "Accrued expenses" on the consolidated balance sheets. The Company also made an additional post-closing payment of \$910 in the third quarter of 2023 that was negotiated as a deduction of the cash consideration at closing. As a result, total payments related to the transaction are expected to be \$72,243, comprised of the upfront cash

consideration of \$70,892, a working capital adjustment of \$341, an additional post-closing payment of \$910, and the fair value of the earn-out payment of \$100.

The goodwill of \$31,550 that arose on the acquisition date consists largely of expected synergies, including the combined entities' experience and technical problem-solving capabilities, and acquired workforce. 80% of the goodwill is assigned to the Human Nutrition and Health business segment and 20% of the goodwill is assigned to the Animal Nutrition and Health business segment. For tax purposes, a joint election under 338(h)(10) was made to treat the stock acquisition as a deemed asset acquisition, therefore generating tax amortizable goodwill.

The following table summarizes the fair values of the assets acquired and liabilities assumed:

Cash and cash equivalents	\$ 773
Accounts receivable	4,699
Inventories	3,972
Property, plant and equipment	2,243
Right of use assets	866
Customer relationships	29,900
Developed technology	4,600
Trademarks	2,300
Other assets	197
Accounts payable	(699)
Bank debt	(206)
Lease liabilities	(871)
Other liabilities	(462)
Goodwill	31,550
Total consideration on acquisition date and working capital adjustment	78,862
Net decrease to contingent consideration liability and other post-closing payments	(6,825)
Total expected consideration	72,037
To pay off bank debt	206
Total expected payments	\$ 72,243

The fair value of tangible and intangible assets acquired and liabilities assumed is based on management's estimates and assumptions. In preparing our fair value estimates of the intangible assets and certain tangible assets acquired, management, among other things, consulted an independent advisor. Valuation methods utilized include net realizable value for inventory, multi-period excess earnings method for customer relationships, the relief from royalty method for other intangible assets, and a scenario-based approach for the contingent consideration.

Customer relationships are amortized over a 15-year period utilizing a percentage of excess earnings over economic life method. The corporate trademark and product trademarks are amortized over 2 years and 10 years, respectively, and developed technology is amortized over 12 years, utilizing the straight-line method as the consumption pattern of the related economic benefits cannot be reliably determined.

Transaction and integration costs related to the Bergstrom acquisition are included in general and administrative expenses and were \$(10,614) and \$4,604 for the years ended December 31, 2023 and 2022, respectively. There were no such amounts related to this acquisition for the year ended December 31, 2021. These amounts included favorable adjustments to transaction costs of \$11,300 for the year ended December 31, 2023 and an unfavorable adjustment to transaction costs of \$3,565 for the year ended December 31, 2022.

Kechu BidCo AS and Its Subsidiary Companies ("Kappa")

On June 21, 2022, Balchem Corporation and its wholly-owned subsidiary, Balchem B.V., completed the acquisition of Kechu BidCo AS and its subsidiary companies, including Kappa Bioscience AS, a leading science-based manufacturer of specialty vitamin K2 for the human nutrition industry, headquartered in Oslo, Norway (all acquired companies collectively referred to as "Kappa"). Kappa manufactures specialty vitamin K2, which plays a crucial role in the human body for bone health, heart health and immunity. Primarily, vitamin K2 supports the transport and distribution of calcium in the body. Vitamin K2 is important at all life stages, from pregnancy and early life to healthy aging. The acquisition strengthens the Company's scientific and technical expertise, geographic reach, and marketplace leadership, which should ultimately lead to accelerated growth for the Company's portfolios within the Human Nutrition and Health segment.

The Company made payments of approximately kr3,305,653 ("kr" indicates the Norwegian krone), amounting to approximately kr3,001,981 to the former shareholders and approximately kr303,672 to Kappa's lenders to pay off all Kappa bank debt. Net of cash acquired of kr63,064, total payments to the former shareholders were kr2,938,917. Net of gains on foreign currency forward contracts of \$512 (see Note 20, *Derivative Instruments and Hedging Activities*), these payments translated to approximately \$333,112, amounting to approximately \$302,464 paid to the former shareholders and approximately \$30,648 to Kappa's lenders. Net of cash acquired of \$6,365, total payments made to the former shareholders of Kappa were approximately \$296,099. The acquisition was primarily financed through the 2018 Credit Agreement (see Note 8, *Revolving Loan*). In connection with this transaction, the former shareholders of Kappa had an opportunity to receive an additional payment in 2024 if certain financial performance targets and other metrics were met. There was no contingent consideration liability recorded as of December 31, 2023.

The goodwill of \$216,383 that arose on the acquisition date consists largely of expected synergies, including the combined entities' experience and technical problem-solving capabilities, and acquired workforce. The goodwill is assigned to the Human Nutrition and Health business segment and is not deductible for income tax purposes.

The following table summarizes the fair values of the assets acquired and liabilities assumed. The transactions were completed in Norwegian kroner ("NOK") and the amounts were translated to U.S. dollars ("USD") using the foreign currency exchange rate as of June 21, 2022.

Cash and cash equivalents	\$ 6,365
Accounts receivable	8,036
Inventories	17,600
Property, plant and equipment	9,854
Right of use assets	3,349
Customer relationships	88,813
Developed technology	15,643
Trademarks	5,046
Other assets	2,399
Accounts payable	(3,301)
Bank debt	(30,648)
Lease liabilities	(3,349)
Other liabilities	(4,461)
Deferred income taxes, net	(24,716)
Goodwill	216,383
Total consideration on acquisition date	 307,013
Decrease to contingent consideration liability	(4,037)
Net gain on foreign currency exchange forward contracts	(512)
Total expected consideration	 302,464
Kappa bank debt paid on acquisition date	 30,648
Total expected payments	\$ 333,112
	•

The fair value of tangible and intangible assets acquired and liabilities assumed is based on management's estimates and assumptions. In preparing our fair value estimates of the intangible assets and certain tangible assets acquired, management, among other things, consulted an independent advisor. Valuation methods utilized include net realizable value for inventory, multi-period excess earnings method for customer relationships, the relief from royalty method for other intangible assets, and a scenario-based approach for the contingent consideration.

Customer relationships are amortized over a 15-year period utilizing a percentage of excess earnings over economic life method. The corporate trademark and product trademarks are amortized over 2 years and 10 years, respectively, and developed technology is amortized over 12 years, utilizing the straight-line method as the consumption pattern of the related economic benefits cannot be reliably determined.

Transaction and integration costs related to the Kappa acquisition are included in general and administrative expenses and were \$533 and \$(2,306) for the years ended December 31, 2023 and 2022, respectively. There were no such amounts related to this acquisition for the year ended December 31, 2021. The amount included a favorable adjustment to transaction costs of \$4,037 for the year ended December 31, 2022.

The following selected unaudited pro forma information presents the consolidated results of operations as if the business combinations in 2022 had occurred as of January 1, 2021.

	Twelve Months ended December 31,				
		Net Sales		Net Earnings	
Kappa & Bergstrom actual results included in the Company's consolidated income statement in 2023	\$	59,532	\$	5,487	
Kappa & Bergstrom actual results included in the Company's consolidated income statement in 2022	\$	22,158	\$	(5,359)	
2023 Supplemental pro forma combined financial	\$	922,439	\$	116,317	
2022 Supplemental pro forma combined financial	\$	982,021	\$	110,181	
2021 Supplemental pro forma combined financial	\$	859,252	\$	90,672	

The above selected unaudited pro forma information includes the following acquisition-related adjustments: (1) additional amortization of intangible assets and depreciation of fixed assets; (2) adjustments related to the fair value of the acquired inventory, (3) adjustments to interest expense on borrowings at rates in effect during the related period, factoring in estimated payments based on free cash flow, and (4) other one-time adjustments.

The pro forma information presented does not purport to be indicative of the results that actually would have been attained if these acquisitions had occurred at the beginning of the periods presented and is not intended to be a projection of future results.

NOTE 3 - STOCKHOLDERS' EQUITY

Stock-Based Compensation

All share-based payments, including grants of stock options, are recognized in the statements of earnings as operating expenses, based on their fair values.

The Company has made an estimate of expected forfeitures, based on its historical experience, and is recognizing compensation cost only for those stock-based compensation awards expected to vest.

The Company's results for the years ended December 31, 2023, 2022 and 2021 reflected the following compensation cost and such compensation cost had the following effects on net earnings:

Increase/(Decrease) for the

Year Ended December 31, 2023 2021 \$ 1,900 \$ Cost of sales 1,302 \$ 845 9,957 Operating expenses 14,152 11,922 Net earnings (12,375)(10,214)(8,370)

On December 31, 2023, the Company had one share-based compensation plan under which awards may be granted, which is described below.

In June 2017, the Company's shareholders approved the Balchem Corporation 2017 Omnibus Incentive Plan ("2017 Plan") for officers, employees and directors of the Company and its subsidiaries. The 2017 Plan replaced the 1999 Stock Plan and amendments and restatements thereto (collectively to be referred to as the "1999 Plan"), which expired in April 2018. No further awards will be made under the 1999 Plan, and the shares that remained available for grant under the 1999 Plan will only be used to settle outstanding awards granted under the 1999 Plan and will not become available under the 2017 Plan. On June 22, 2023, the Company's shareholders approved an amendment and restatement of the 2017 Plan (the "Amended 2017 Plan"). The Amended 2017 Plan is administered by the Compensation Committee of the Board of Directors of the Company. The Amended 2017 Plan provides as follows: (i) for a termination date of June 22, 2033; (ii) the authorization of 2,400,000 shares for future grants (which represents an increase of 800,000 shares from the amount approved under the 2017 Plan); (iii) for the making of grants of stock options, stock appreciation rights, restricted stock awards, restricted stock units, and other stock-based awards, as well as for the making of cash performance awards; (iv) except as provided by the Compensation Committee or in an employment agreement as in effect on the effective date of the Amended 2017 Plan, no automatic acceleration of outstanding awards upon the occurrence of a change in control of the Company; (v) certain annual limits on the number of shares and amount of cash that may be granted; (vi) for dividends or dividend equivalents otherwise payable on an unvested award to accrue and be paid only at such time as the vesting conditions applicable to the underlying award have been satisfied; (vii) for incentive compensation recovery if the Company is required to prepare an accounting restatement of its financial statements, in accordance with any compensation recovery policy adopted by the Company, applicable law, government regulations or national securities exchange requirements, or in the discretion of the Compensation Committee in the event of a restatement due to the Company's material noncompliance with any financial reporting requirements under the securities laws; and (viii) for compliance with the requirements of Section 409A of the Internal Revenue Code of 1986, as amended (the "Internal Revenue Code" or the "Code"). No option will be exercisable for longer than ten years after the date of grant.

The shares to be issued upon exercise of the outstanding options have been approved, reserved and are adequate to cover all exercises. As of December 31, 2023, the Amended 2017 Plan had 1,034,260 shares available for future awards.

The Company has Restricted Stock Grant Agreements with the Company's non–employee directors and certain employees. Under the Restricted Stock Grant Agreements, certain shares of the Common Stock have been granted, ranging from 70 shares to 54,000 shares, to its non-employee directors and certain employees, subject to time-based vesting requirements.

The Company also has performance share ("PS") awards, which provide the recipients the right to receive a certain number of shares of the Common Stock in the future, subject to an (1) EBITDA performance hurdle, where vesting is dependent upon the Company achieving a certain EBITDA percentage growth over the performance period, and (2) relative total shareholder return ("TSR") market condition where vesting is dependent upon the Company's TSR performance over the performance period (typically three years) relative to a comparator group consisting of the Russell 2000 index constituents.

The fair value of each option award issued under the Company's stock plans is estimated on the date of grant using either the Black-Scholes model or the Binomial model, whichever is deemed to be most appropriate. For the years ended December 31, 2023, 2022, and 2021, the fair value of each option grant uses the assumptions noted in the following table. Expected volatilities are based on historical volatility of the Company's stock. The expected term of the options is based on the Company's historical experience of employees' exercise behavior. Dividend yields are based on the Company's historical dividend yields. Risk-free interest rates are based on the implied yields currently available on U.S. Treasury zero coupon issues with a remaining term equal to the expected life.

	Year Ended December 31,							
Weighted Average Assumptions:	2023	2022	2021					
Expected Volatility	28.1 %	30.3 %	32.9 %					
Expected Term (in years)	4.8	7.3	4.9					
Risk-Free Interest Rate	3.9 %	2.8 %	0.5 %					
Dividend Yield	0.5 %	0.5 %	0.5 %					

The value of the restricted shares is based on the fair value of the award at the date of grant.

Performance Share expense is measured based on the fair value at the date of grant utilizing a Black-Scholes methodology to produce a Monte-Carlo simulation model which allows for the incorporation of the performance hurdles that must be met before the Performance Share vests. The assumptions used in the fair value determination were risk free interest rates of 4.2%, 1.8%, and 0.2%; dividend yields of 0.5%, 0.5%, and 0.6%; volatilities of 32%, 32%, and 33%; and initial TSR's of 4.2%, -15.7%, and 11.7% in each case for the years ended December 31, 2023, 2022, and 2021, respectively. Expense is based on the estimated number of shares expected to vest, assuming the requisite service period is rendered and the probable outcome of the performance condition is achieved. The estimate is revised if subsequent information indicates that the actual number of shares likely to vest differs from previous estimates. Expense is ultimately adjusted based on the actual achievement of service and performance targets. The Performance Shares will cliff vest 100% at the end of the third year following the grant in accordance with the performance metrics set forth.

Compensation expense for stock options and stock awards is recognized on a straight-line basis over the vesting period, generally three to five years for stock options, three years for employee restricted stock awards, three years for employee performance share awards, and three years for non-employee director restricted stock awards.

A summary of stock option plan activity for 2023, 2022, and 2021 for all plans is as follows:

	20	23		2022			20	21		
	# of Shares (000s)	1	Veighted Average Exercise Price	# of Shares (000s)	Weighted Average Exercise Price		# of Shares (000s)	A	Veighted Average Exercise Price	
Outstanding at beginning of year	1,045	\$	99.82	867	\$	88.19	858	\$	80.58	
Granted	109		138.09	239		139.04	129		119.12	
Exercised	(64)		81.98	(44)		73.58	(109)		63.42	
Forfeited	(11)		131.79	(17)		124.89	(10)		106.93	
Cancelled	(1)		138.07			_	(1)		74.57	
Outstanding at end of year	1,078	\$	104.38	1,045	\$	99.82	867	\$	88.19	
Exercisable at end of year	720	\$	88.49	654	\$	81.95	538	\$	75.51	

The aggregate intrinsic value for outstanding stock options was \$47,889, \$27,221 and \$69,711 at December 31, 2023, 2022 and 2021, respectively, with a weighted average remaining contractual term of 5.7 years at December 31, 2023. Exercisable stock options at December 31, 2023 had an aggregate intrinsic value of \$43,364 with a weighted average remaining contractual term of 4.4 years.

Other information pertaining to option activity during the years ended December 31, 2023, 2022 and 2021 is as follows:

	 Years Ended December 31,								
	2023		2022	2021					
Weighted-average fair value of options granted	\$ 40.91	\$	44.77	\$	33.11				
Total intrinsic value of stock options exercised (\$000s)	\$ 3,241	\$	2,713	\$	7,866				

Additional information related to stock options outstanding under all plans at December 31, 2023 is as follows:

		Options Outstanding			Options E	Exercisable		
Range of Exercise Prices	Shares Outstanding (000s)	Remaining Aver Contractual Exer		Weighted Average Exercise Price	Number Exercisable (000s)		Weighted Average Exercise Price	
\$54.87 - \$85.33	387	3.5	\$	72.41	387	\$	72.41	
\$85.40 - \$118.60	250	4.9		101.84	248		101.71	
\$118.96 - \$150.85	441	8.1		133.93	85		123.47	
	1,078	5.7	\$	104.38	720	\$	88.49	

Non-vested restricted stock activity for the years ended December 31, 2023, 2022 and 2021 is summarized below:

	2023			20		2021			
	Shares (000s)		Veighted Average Grant Date Fair Value	Weighted Average Grant Shares Date Fair (000s) Value		Shares (000s)		Weighted Average Grant Date Fair Value	
Non-vested balance at beginning of year	122	\$	124.42	166	\$	99.7	159	\$	90.71
Granted	40	•	137.20	46		137.17	42		123.58
Vested	(42)		112.30	(82)		82.15	(24)		85.83
Forfeited	(4)		128.06	(8)		118.07	(11)		90.49
Non-vested balance at end of year	116	\$	133.06	122	\$	124.42	166	\$	99.7

Non-vested performance share activity for the years ended December 31, 2023, 2022 and 2021 is summarized below:

	2023			20		2021			
	Shares (000s)	1	Veighted Average Grant Date Fair Value	Weighted Average Grant Shares Date Fair (000s) Value		Shares (000s)		Weighted Average Grant Date Fair Value	
Non-vested balance at beginning of year	70	\$	127.69	69	\$	110.72	71	\$	91.99
Granted	42		139.66	39		114.22	36		108.74
Vested	(36)		98.84	(35)		53.17	(24)		70.64
Forfeited			_	(3)		84.09	(14)		81.03
Non-vested balance at end of year	76	\$	135.25	70	\$	127.69	69	\$	110.72

As of December 31, 2023, 2022 and 2021, there was \$18,817, \$20,791 and \$13,980, respectively, of total unrecognized compensation cost related to non-vested share-based compensation arrangements granted under the plans. As of December 31, 2023, the unrecognized compensation cost is expected to be recognized over a weighted-average period of approximately 1.6 years. We estimate that share-based compensation expense for the year ended December 31, 2024 will be approximately \$14,800.

Repurchase of Common Stock

The Company's Board of Directors has approved a stock repurchase program. The total authorization under this program is 3,763,038 shares. Since the inception of the program in June 1999, a total of 3,103,106 shares have been purchased. The Company intends to acquire shares from time to time at prevailing market prices if and to the extent it deems it is advisable to do so based on its assessment of corporate cash flow, market conditions and other factors. Open market repurchases of common stock could be made pursuant to trading plan established pursuant to Rule 10b5-1 under the Securities Exchange Act of 1934, as amended, which would permit common stock to be repurchased at a time that the Company might otherwise be precluded from doing so under insider trading laws or self-imposed trading restrictions. The Company also repurchases (withholds) shares from employees in connection with the tax settlement of vested shares and/or exercised stock options under the Company's omnibus incentive plan. Such repurchases of shares from employees are funded with existing cash on hand. During 2023, 2022, and 2021, the Company purchased 32,558, 252,304, and 249,848 shares, respectively, from open market purchases and from employees on a net-settlement basis to provide cash to employees to cover the associated employee payroll taxes. These shares were purchased at an average cost of \$137.29, \$140.40, and \$141.04 per share, respectively.

NOTE 4 - INVENTORIES

Inventories, net of reserves at December 31, 2023 and 2022 consisted of the following:

	 2023	 2022
Raw materials	\$ 39,517	\$ 44,477
Work in progress	3,960	3,143
Finished goods	 66,044	 72,048
Total inventories	\$ 109,521	\$ 119,668

On a regular basis, the Company evaluates its inventory balances for excess quantities and obsolescence by analyzing demand, inventory on hand, sales levels and other information. Based on these evaluations, inventory balances are reserved, if necessary. The reserve for inventory was \$2,463 and \$2,640 at December 31, 2023 and 2022, respectively.

NOTE 5 - PROPERTY, PLANT AND EQUIPMENT

Property, plant and equipment at December 31, 2023 and 2022 are summarized as follows:

	2023	2022
Land	\$ 11,787	\$ 11,415
Building	104,363	90,644
Equipment	312,704	278,851
Construction in progress	59,981	79,928
	488,835	460,838
Less: Accumulated depreciation	212,796	189,483
Property, plant and equipment, net	\$ 276,039	\$ 271,355

Geographic Area Data - Long-Lived Assets (excluding intangible assets):

	 2023	 2022
United States	\$ 203,692	\$ 211,588
Foreign Countries	 72,347	59,767
Total	\$ 276,039	\$ 271,355

Depreciation expense was \$26,373, \$24,033 and \$23,295 for the years ended December 31, 2023, 2022 and 2021, respectively.

In accordance with Topic 360, the Company reviews long-lived assets for impairment on an annual basis and also whenever events indicate that the carrying amount of the assets may not be fully recoverable. If the carrying amount of an asset exceeds its estimated future cash flows, an impairment charge is recognized by the amount by which the carrying amount of the asset exceeds the fair value of the asset, which is generally based on discounted cash flows. Included in "General and administrative expenses" were restructuring-related impairment and asset disposal charges of \$7,764 related to building, equipment, and construction in progress mainly in the Human Nutrition and Health and the Animal Nutrition and Health segments, for the year ended December 31, 2023. Such expenses for the year ended December 31, 2022 were not material.

NOTE 6 - INTANGIBLE ASSETS

The Company had goodwill in the amount of \$778,907 and \$769,509 as of December 31, 2023 and 2022, respectively, subject to the provisions of ASC 350, "Intangibles-Goodwill and Other." The increase in goodwill is primarily due to foreign currency translation adjustments.

As of December 31, 2023 and 2022, the Company had identifiable intangible assets as follows:

		 20			20)22		
	Amortization Period (In years)	Gross Carrying Amount	Accumulated Amortization		Gross Carrying Amount		Accumulated Amortization	
Customer relationships and lists	10-20	\$ 362,032	\$	209,651	\$	357,131	\$	190,576
Trademarks and trade names	2-17	50,286		37,773		50,058		33,416
Developed technology	5-12	41,184		17,516		40,473		16,171
Other	2-18	 25,733		23,083		25,041		19,245
		\$ 479,235	\$	288,023	\$	472,703	\$	259,408

Amortization of identifiable intangible assets was \$28,035, \$27,271 and \$25,092 for 2023, 2022 and 2021, respectively. Assuming no change in the gross carrying value of identifiable intangible assets, the estimated amortization expense is approximately \$18,971 in 2024, \$15,509 in 2025, \$15,308 in 2026, \$14,784 in 2027, and \$14,387 in 2028. At December 31, 2023 and 2022, there were no identifiable intangible assets with indefinite useful lives as defined by ASC 350, "Intangibles-Goodwill and Other." Identifiable intangible assets are reflected in the Company's consolidated balance sheets under Intangible assets with finite lives, net. There were no changes to the useful lives of intangible assets subject to amortization in 2023 and 2022.

The Federal Insecticide, Fungicide and Rodenticide Act, ("FIFRA"), a health and safety statute, requires that certain products within our specialty products segment must be registered with the U.S. Environmental Protection Agency (the "EPA") because they are considered pesticides. Costs of such registrations are included as other in the table above.

NOTE 7 – EQUITY-METHOD INVESTMENT

In 2013, the Company and Eastman Chemical Company formed a joint venture (66.66% / 33.34% ownership), St. Gabriel CC Company, LLC, to design, develop, and construct an expansion of the Company's St. Gabriel aqueous choline chloride plant. The Company contributed the St. Gabriel plant, at cost, and all continued expansion and improvements are funded by the owners. The joint venture became operational as of July 1, 2016. St. Gabriel CC Company, LLC is a Variable Interest Entity ("VIE") because the total equity at risk is not sufficient to permit the joint venture to finance its own activities without additional subordinated financial support. Additionally, voting rights (2 votes each) are not proportionate to the owners' obligation to absorb expected losses or receive the expected residual returns of the joint venture. The Company will receive up to 2/3 of the production offtake capacity and absorbs operating expenses approximately proportional to the actual percentage of offtake. The joint venture is accounted for under the equity method of accounting since the Company is not the primary beneficiary as the Company does not have the power to direct the activities of the joint venture that most significantly impact its economic performance. The Company recognized a loss of \$509, \$559, and \$557 for the years ended December 31, 2023, 2022, and 2021, respectively, relating to its portion of the joint venture's expenses in other expense. The Company made capital contributions to the investment totaling \$290, \$355, and \$85 for the years ended December 31, 2023, 2022, and 2021 respectively. The carrying value of the joint venture at December 31, 2023 and 2022 was \$4,076 and \$4,295, respectively, and is recorded in "Other non-current assets" on the consolidated balance sheets.

NOTE 8 – REVOLVING LOAN

On June 27, 2018, the Company and a bank syndicate entered into a credit agreement (the "2018 Credit Agreement"), which provided for revolving loans up to \$500,000, due on June 27, 2023. During the second quarter of 2022, the Company borrowed \$345,000 under the 2018 Credit Agreement to fund the Kappa acquisition (see Note 2, *Significant Acquisitions*). On July 27, 2022, the Company entered into an Amended and Restated Credit Agreement (the "2022 Credit Agreement") with certain lenders in the form of a senior secured revolving credit facility, due on July 27, 2027. The 2022 Credit Agreement allows for up to \$550,000 of borrowing. The loans may be used for working capital, letters of credit, and other corporate purposes and may be drawn upon at the Company's discretion. The Company used initial proceeds from the 2022 Credit Agreement to repay the outstanding balance of \$433,569 due in June 2023 under the 2018 Credit Agreement. During the third quarter of 2022, the Company borrowed another \$70,000 to fund the Bergstrom acquisition (see Note 2, *Significant Acquisitions*). As of December 31, 2023 and 2022, the total balance outstanding on the 2022 Credit Agreement amounted to \$309,569 and \$440,569, respectively. There are no installment payments required on the revolving loans; they may be voluntarily prepaid in whole or in part without premium or penalty, and all outstanding amounts are due on the maturity date.

Amounts outstanding under the 2022 Credit Agreement are subject to an interest rate equal to a fluctuating rate as defined by the 2022 Credit Agreement plus an applicable rate. The applicable rate is based upon the Company's consolidated net leverage ratio, as defined in the 2022 Credit Agreement, and the interest rate was 6.580% at December 31, 2023. The Company is also required to pay a commitment fee on the unused portion of the revolving loan, which is based on the Company's consolidated net leverage ratio as defined in the 2022 Credit Agreement and ranges from 0.150% to 0.225% (0.175% at December 31, 2023). The unused portion of the revolving loan amounted to \$240,431 at December 31, 2023. The Company is also required to pay, as applicable, letter of credit fees, administrative agent fees, and other fees to the arrangers and lenders.

Costs associated with the issuance of the revolving loans are capitalized and amortized on a straight-line basis over the term of the 2022 Credit Agreement. Capitalized costs net of accumulated amortization totaled \$1,030 and \$1,317 at December 31, 2023 and 2022, respectively, and are included in "Other non-current assets" on the consolidated balance sheets. Amortization expense pertaining to these costs totaled \$287, \$335, and \$282 for the years ended December 31, 2023, 2022, and 2021, respectively, and are included in "Interest expense" in the accompanying consolidated statements of earnings.

The 2022 Credit Agreement contains quarterly covenants requiring the consolidated leverage ratio to be less than a certain maximum ratio and the consolidated interest coverage ratio to exceed a certain minimum ratio. At December 31, 2023, the Company was in compliance with these covenants. Indebtedness under the Company's loan agreements is secured by assets of the Company.

NOTE 9 - NET EARNINGS PER COMMON SHARE

The following presents a reconciliation of the net earnings and shares used in calculating basic and diluted net earnings per common share:

	Year Ended December 31,								
	2023			2022		2021			
Net Earnings - Basic and Diluted		108,543	\$	105,367	\$	96,104			
Share (000s)									
Weighted Average Common Shares - Basic		32,108		32,019		32,215			
Effect of Dilutive Securities – Stock Options, Restricted Stock, and Performance Shares		340		374		457			
Weighted Average Common Shares - Diluted		32,448		32,393		32,672			
Net Earnings Per Share - Basic	\$	3.38	\$	3.29	\$	2.98			
Net Earnings Per Share - Diluted	\$	3.35	\$	3.25	\$	2.94			

The number of anti-dilutive shares were 354,619, 371,513, and 155,294 for 2023, 2022, and 2021. Anti-dilutive shares could potentially dilute basic earnings per share in future periods and therefore, were not included in diluted earnings per share.

NOTE 10 - INCOME TAXES

The Company's effective tax rate for 2023, 2022 and 2021 was 20.9%, 21.2%, and 23.3%, respectively. The decrease from 2022 to 2023 is primarily due to an increase in certain tax credits.

Income taxes are accounted for under the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. The Company regularly reviews its deferred tax assets for recoverability and would establish a valuation allowance if it believed that such assets may not be recovered, taking into consideration historical operating results, expectations of future earnings, changes in its operations and the expected timing of the reversals of existing temporary differences.

The Company considers the undistributed earnings of certain non-U.S. subsidiaries to be indefinitely reinvested outside of the United States on the basis of estimates that future domestic cash generation will be sufficient to meet future domestic cash needs. However, due to prevailing economic conditions of increased interest rates and subsequent borrowing costs, the Company remitted approximately \$18,000 from its Belgium subsidiary and has incurred an income tax expense of approximately \$20. The remittance was used to pay down U.S. debt. The Company had unremitted foreign earnings of approximately \$109,000 and \$94,000 for the years ended December 31, 2023 and 2022, respectively. The determination of the unrecognized deferred tax liability on those undistributed earnings is not practicable due to its legal entity structure and the complexity of U.S. and local country tax laws. If the Company decides to change its assertion on its remaining undistributed foreign earnings, it will need to recognize the income tax effects in the period it changes its assertion.

Income tax expense consists of the following:

	2023			2022	2021
Current:		_		_	
Federal	\$	27,306	\$	26,423	\$ 25,019
Foreign		7,634		7,103	7,553
State		4,403		3,964	3,664
Deferred:					
Federal		(7,737)		(7,532)	(3,709)
Foreign		(2,285)		(215)	(3,038)
State		(603)		(1,361)	(360)
Total income tax provision	\$	28,718	\$	28,382	\$ 29,129

The provision for income taxes differs from the amount computed by applying the Federal statutory rate of 21% for 2023, 2022, and 2021 to earnings before income tax expense due to the following:

	 2023		2022		2021
Income tax at Federal statutory rate	\$ 28,825	\$	28,087	\$	26,299
State income taxes, net of Federal income taxes	2,513		1,862		2,406
Stock Options	(1,004)		(676)		(924)
Foreign-derived intangible income (FDII)	(1,752)		(1,778)		(1,540)
Foreign rate differential	946		2,066		1,188
Other	 (810)		(1,179)		1,700
Total income tax provision	\$ 28,718	\$	28,382	\$	29,129

The tax effects of temporary differences that give rise to significant portions of the deferred tax assets and deferred tax liabilities at December 31, 2023 and 2022 were as follows:

	2023	2022
Deferred tax assets:		
Inventories	\$ 1,049	\$ 1,038
Restricted stock and stock options	5,565	3,932
Lease liabilities	4,812	5,439
Research and development	12,653	4,134
Other	3,874	3,717
Total deferred tax assets	27,953	18,260
Deferred tax liabilities:		
Amortization	\$ (42,351)	\$ (46,688)
Depreciation	(28,937)	(25,097)
Prepaid expenses	(421)	(462)
Foreign currency and interest rate swaps	(647)	(1,456)
Right of use assets	(4,574)	(5,324)
Other	(3,047)	(1,995)
Total deferred tax liabilities	(79,977)	(81,022)
Valuation allowance	(22)	(22)
Net deferred tax liability	\$ (52,046)	\$ (62,784)

As of December 31, 2023, the Company has state income tax net operating loss (NOL) carryforwards of \$348. The state NOL carryforwards will expire between 2026 and 2035. The Company believes that the benefit from the state NOL carryforwards will not be realized, therefore, a valuation allowance has been established in the amount of \$22.

Provisions of ASC 740-10 clarify whether or not to recognize assets or liabilities for tax positions taken that may be challenged by a tax authority. A reconciliation of the beginning and ending amount of unrecognized tax benefits, which is included in other long-term obligations on the Company's consolidated balance sheets, is as follows:

	2023	2022	2021
Balance at beginning of period	\$ 5,815	\$ 5,881	\$ 5,335
Increases for tax positions of prior years	1,353	2,194	806
Decreases for tax positions of prior years	 (2,518)	 (2,260)	 (260)
Balance at end of period	\$ 4,650	\$ 5,815	\$ 5,881

All of Balchem's unrecognized tax benefits, if recognized in future periods, would impact the Company's effective tax rate in such future periods.

The Company recognizes both interest and penalties as part of the income tax provision. During the years ended December 31, 2023 and 2022, these amounts were reduced by \$322 and \$371, respectively. During the year ended December 31, 2021, this amounted to \$262. As of December 31, 2023 and 2022, accrued interest and penalties were \$1,413 and \$1,735, respectively.

Balchem files income tax returns in the U.S. and in various states and foreign countries. In the major jurisdictions where the Company operates, it is generally no longer subject to income tax examinations by tax authorities for years before 2019 and management does not anticipate any material change in the total amount of unrecognized tax benefits to occur within the next twelve months.

The European Union ("EU") member states formally adopted the EU's Pillar Two Directive, which was established by the Organization for Economic Co-operation and Development. Pillar Two generally provides for a 15 percent minimum effective tax rate for the jurisdictions where multinational enterprises operate. While the Company does not anticipate that this will have a

material impact on its tax provision or effective tax rate, the Company continues to monitor evolving tax legislation in the jurisdictions in which it operates.

NOTE 11 - SEGMENT INFORMATION

Balchem Corporation reports three reportable segments: Human Nutrition and Health, Animal Nutrition and Health, and Specialty Products. Sales and production of products outside of our reportable segments and other minor business activities are included in "Other and Unallocated."

Human Nutrition and Health

The Human Nutrition and Health ("HNH") segment provides human grade choline nutrients and mineral amino acid chelated products through this segment for nutrition and health applications. Choline is recognized to play a key role in the development and structural integrity of brain cell membranes in infants, processing dietary fat, reproductive development and neural functions, such as memory and muscle function. The Company's mineral amino acid chelates, specialized mineral salts, and mineral complexes are used as raw materials for inclusion in premier human nutrition products; proprietary technologies have been combined to create an organic molecule in a form the body can readily assimilate. Sales growth for human nutrition applications is reliant on differentiation from lower-cost competitive products through scientific data, intellectual property and customers' appreciation of brand value. Consequently, the Company makes investments in such activities for long-term value differentiation. This segment also manufactures specialty vitamin K2, which plays a crucial role in the human body for bone health, heart health and immunity, and methylsulfonylmethane ("MSM"), which is a widely used nutritional ingredient that helps provide benefits for joint health, sports nutrition, skin and beauty, and healthy aging. This segment also serves the food and beverage industry for beverage, bakery, dairy, confectionary, and savory manufacturers. The Company partners with its customers from ideation through commercialization to bring on-trend beverages, baked goods, confections, dairy and meat products to market. The Company has expertise in trends analysis and product development. With its strong manufacturing capabilities in customized spray dried and emulsified powders, extrusion and agglomeration, blended lipid systems, liquid flavor delivery systems, juice and dairy bases, chocolate systems, ice cream bases and variegates, the Company is a one-stop solutions provider for beverage and dairy product development needs. Additionally, this segment provides microencapsulation solutions to a variety of applications in food, pharmaceutical and nutritional ingredients to enhance performance of nutritional fortification, processing, mixing, and packaging applications and shelf-life. Major product applications are baked goods, refrigerated and frozen dough systems, processed meats, seasoning blends, confections, sports and protein bars, dietary plans, and nutritional supplements. The Company also creates cereal systems for ready-to-eat cereals, grain-based snacks, and cereal based ingredients.

Animal Nutrition and Health

The Company's Animal Nutrition and Health ("ANH") segment provides nutritional products derived from its microencapsulation and chelation technologies in addition to the essential nutrient choline chloride. For ruminant animals, the Company's microencapsulated products boost health and milk production by delivering nutrient supplements that are biologically available, providing required nutritional levels. The Company's proprietary chelation technology provides enhanced nutrient absorption for various species of production and companion animals and is marketed for use in animal feed throughout the world. ANH also manufactures and supplies choline chloride, an essential nutrient for monogastric animal health, predominantly to the poultry, pet and swine industries. Choline, which is manufactured and sold in both dry and aqueous forms, plays a vital role in the metabolism of fat. In poultry, choline deficiency can result in reduced growth rates and perosis in young birds, while in swine production choline is a necessary and required component of gestating and lactating sow diets for both liver health and prevention of leg deformity. This segment also manufactures MSM, which is a widely used nutritional ingredient that provides benefits for pet health.

Sales of value-added encapsulated products are highly dependent on overall industry economics as well as the Company's ability to leverage the results of university and field research on the animal health and production benefits of our products. Management believes that success in the commodity-oriented choline chloride marketplace is highly dependent on the Company's ability to maintain its strong reputation for excellent product quality and customer service. The Company continues to drive production efficiencies in order to maintain its competitive-cost position to effectively compete in a competitive global marketplace.

Specialty Products

The Company re-packages and distributes a number of performance gases and chemicals for various uses by its customers, notably ethylene oxide, propylene oxide, and ammonia. Ethylene oxide is sold as a sterilant gas, primarily for use in the health

care industry. It is used to sterilize a wide range of medical devices because of its versatility and effectiveness in treating hard or soft surfaces, composites, metals, tubing and different types of plastics without negatively impacting the performance of the device being sterilized. Contract sterilizers and medical device manufacturers are principal customers for this product. Propylene oxide is marketed and sold as a fumigant to aid in the control of insects and microbiological spoilage, to reduce bacterial and mold contamination in certain shelled and processed nut meats, processed spices, cacao beans, cocoa powder, raisins, figs and prunes, and for various chemical synthesis applications, such as increasing paint durability and manufacturing specialty starches and textile coatings. Ammonia is used primarily as a refrigerant, for heat treatment of metals and various chemical synthesis applications, and is distributed in reusable and recyclable drum and cylinder packaging approved for use in the countries these products are shipped to.

The Company's performance gases and chemicals are distributed worldwide in specially designed, reusable and recyclable drum and cylinder packaging, to assure compliance with safety, quality and environmental standards as outlined by the applicable regulatory agencies in the countries our products are shipped to. The Company's inventory of these specially built drums and cylinders, along with its five filling facilities, represents a significant capital investment. The Company also sells single use canisters for use in sterilizing re-usable devices typically processed in autoclave units in hospitals.

The Company's micronutrient agricultural nutrition business sells chelated minerals primarily to producers of high value crops. The Company has a unique and patented two-step approach to solving mineral deficiency in plants to optimize health, yield and shelf-life. First, the Company determines optimal mineral balance for plant health. The Company then has a foliar applied Metalosate® product range, utilizing patented amino acid chelate technology. Its products quickly and efficiently deliver mineral nutrients. As a result, the farmer/grower gets healthier crops that are more resistant to disease and pests, larger yields and healthier food for the consumer with extended shelf life for produce being shipped long distances.

The segment information is summarized as follows:

Business Segment Assets

	 2023	2022		
Human Nutrition and Health	\$ 1,180,527	\$	1,170,238	
Animal Nutrition and Health	166,994		175,972	
Specialty Products	168,307		177,187	
Other and Unallocated (1)	81,383		101,115	
Total	\$ 1,597,211	\$	1,624,512	

Business Segment Net Sales

	2023			2022	2021	
Human Nutrition and Health	\$	550,751	\$	527,131	\$	442,733
Animal Nutrition and Health		238,326		262,297		226,776
Specialty Products		125,965		131,438		117,020
Other and Unallocated (2)		7,397		21,492		12,494
Total	\$	922,439	\$	942,358	\$	799,023

Business Segment Earnings Before Income Taxes

	2023		2022		2021	
Human Nutrition and Health	\$	102,419	\$	82,125	\$	76,031
Animal Nutrition and Health		27,576		36,056		26,179
Specialty Products		34,579		32,789		30,020
Other and Unallocated (2)		(5,381)		(5,784)		(4,728)
Interest and other expense		(21,932)		(11,437)		(2,269)
Total	\$	137,261	\$	133,749	\$	125,233

Depreciation/Amortization

	2023		2022		2021
Human Nutrition and Health	\$	38,568	\$	33,728	\$ 30,012
Animal Nutrition and Health		7,876		6,685	7,414
Specialty Products		7,278		7,507	8,332
Other and Unallocated (2)		1,213		3,928	3,121
Total	\$	54,935	\$	51,848	\$ 48,879

Capital Expenditures

	2023		2022		2021
Human Nutrition and Health	\$	26,415	\$	33,668	\$ 23,714
Animal Nutrition and Health		6,993		10,809	8,100
Specialty Products		3,535		4,004	3,804
Other and Unallocated (2)		331		605	524
Total	\$	37,274	\$	49,086	\$ 36,142

⁽¹⁾ Other and Unallocated assets consist of certain cash, capitalized loan issuance costs, other assets, investments, and income taxes, which the Company does not allocate to its individual business segments. It also includes assets associated with a few minor businesses which individually do not meet the quantitative thresholds for separate presentation.

NOTE 12 - REVENUE

Revenue Recognition

Revenues are recognized when control of the promised goods is transferred to customers, in an amount that reflects the consideration we expect to realize in exchange for those goods.

The following table presents revenues disaggregated by revenue source. Sales and usage-based taxes are excluded from revenues:

	2023		2022		2021
Product Sales Revenue	\$	919,951	\$	939,166	\$ 794,518
Royalty Revenue		2,488		3,192	4,505
Total Revenue	\$	922,439	\$	942,358	\$ 799,023

The following table presents revenues disaggregated by geography, based on customers' delivery addresses:

	2023		2022		2021	
United States	\$	689,601	\$	682,238	\$	584,661
Foreign Countries		232,838		260,120		214,362
Total	\$	922,439	\$	942,358	\$	799,023

Product Sales Revenues

⁽²⁾ Other and Unallocated consists of a few minor businesses which individually do not meet the quantitative thresholds for separate presentation and corporate expenses that have not been allocated to a segment. Unallocated corporate expenses consist of: (i) Transaction and integration costs, ERP implementation costs, and unallocated legal fees totaling \$1,617, \$3,581 and \$1,264 for years ended December 31, 2023, 2022 and 2021, respectively, and (ii) Unallocated amortization expense of \$312, \$2,951, and \$2,510 for years ended December 31, 2023, 2022, and 2021, respectively, related to an intangible asset in connection with a company-wide ERP system implementation.

The Company's primary operation is the manufacturing and sale of health and wellness ingredient products, in which the Company receives an order from a customer and fulfills that order. The Company's product sales are considered point-in-time revenue.

Royalty Revenues

Royalty revenue consists of agreements with customers to use the Company's intellectual property in exchange for a sales-based royalty. Royalties are considered over time revenue and are recorded in the HNH segment.

Contract Liabilities

The Company records contract liabilities when cash payments are received or due in advance of performance, including amounts which are refundable.

The Company's payment terms vary by the type and location of customers and the products offered. The term between invoicing and when payment is due is not significant. For certain products or services and customer types, the Company requires payment before the products are delivered to the customer.

Practical Expedients and Exemptions

The Company generally expenses sales commissions when incurred because the amortization period would have been one year or less. These costs are recorded within selling and marketing expenses.

The Company does not disclose the value of unsatisfied performance obligations for (i) contracts with an original expected length of one year or less and (ii) contracts for which the Company recognizes revenue at the amount to which it has the right to invoice for products shipped.

NOTE 13 - SUPPLEMENTAL CASH FLOW INFORMATION

Cash paid during the year for:

	2023	2022	2021
Income taxes	\$ 35,725	\$ 33,016	\$ 25,355
Interest	\$ 25,933	\$ 11,879	\$ 4,547

Non-cash financing and investing activities:

	2023	2022	2021
Dividends payable	\$ 25,717	\$ 23,129	\$ 20,886
Contingent consideration liability	\$ 	\$ 11,872	\$

NOTE 14 – ACCUMULATED OTHER COMPREHENSIVE INCOME

The changes in accumulated other comprehensive income (loss) were as follows:

	Years Ended December 31,					
		2023		2022		2021
Net foreign currency translation adjustment	\$	16,809	\$	(4,799)	\$	(11,255)
Net change of cash flow hedge (see Note 20 for further information)						
Unrealized (loss) gain on cash flow hedge		(1,406)		3,564		2,707
Tax		341		(868)		(654)
Net of tax		(1,065)		2,696		2,053
Net change in postretirement benefit plan (see Note 15 for further information)						
Prior service loss (gain) arising during the period		132		(41)		(4)
Amortization of prior service gain		_		9		74
Amortization of loss (gain)		8		(2)		(21)
Total before tax		140		(34)		49
Tax		(39)		(24)		(13)
Net of tax		101		(58)		36
Total other comprehensive income/(loss)	\$	15,845	\$	(2,161)	\$	(9,166)

Included in "Net foreign currency translation adjustment" was loss of \$1,455 related to a net investment hedge, which was net of tax benefit of \$471 for the year ended December 31, 2023, and gains of \$3,851, and \$4,766, related to a net investment hedge, net of tax expenses of \$1,236, and \$1,527, for the years ended December 31, 2022 and 2021, respectively. See Note 20, *Derivative Instruments and Hedging Activities*.

Accumulated other comprehensive loss at December 31, 2023 and 2022 consisted of the following:

	Fo	oreign currency translation adjustment	C	Cash flow hedge Postretirement benefit plan				Total		
Balance December 31, 2022	\$	(8,401)	\$	1,065	\$	182	\$	(7,154)		
Other comprehensive income (loss)		16,809		(1,065)		101		15,845		
Balance December 31, 2023	\$	8,408	\$		\$	283	\$	8,691		

NOTE 15 - EMPLOYEE BENEFIT PLANS

Defined Contribution Plans

The Company sponsors one 401(k) savings plan for eligible employees, which allows participants to make pretax or after tax contributions and the Company matches certain percentages of those contributions. The plan also has a discretionary profit sharing portion and matches 401(k) contributions with shares of the Company's Common Stock. All amounts contributed to the plan are deposited into a trust fund administered by independent trustees. On June 21, 2022, the Company completed the acquisition of Kappa, which sponsors one defined contribution plan for its employees. In addition, on August 30, 2022, the Company completed the acquisition of Bergstrom, which sponsored one defined contribution plan for its employees. The Bergstrom plan merged into the Company sponsored 401(k) savings plan on January 1, 2023. The Company provided for matching 401(k) savings plan contributions of \$4,381, \$4,363, and \$4,142 in 2023, 2022 and 2021, respectively. Profit sharing contributions in 2023, 2022, and 2021 were not material.

Postretirement Medical Plans

The Company provides postretirement benefits in the form of two unfunded postretirement medical plans; one that is under a collective bargaining agreement and covers eligible retired employees of the Verona, Missouri facility and a plan for executive officers of the Company who meet eligibility requirements as set forth in the Company's Officer Retiree Program. The Company uses a December 31 measurement date for its postretirement medical plans. In accordance with ASC 715, "Compensation—Retirement Benefits," the Company is required to recognize the over funded or underfunded status of a defined benefit post retirement plan (other than a multiemployer plan) as an asset or liability in its statement of financial position, and to recognize changes in that funded status in the year in which the changes occur through comprehensive income.

The actuarial recorded liabilities for such unfunded postretirement benefits are as follows:

Change in benefit obligation:

	 2023	2022
Benefit obligation at beginning of year	\$ 1,465	\$ 1,293
Service cost with interest to end of year	108	79
Interest cost	62	26
Participant contributions	23	27
Benefits paid	(30)	(69)
Actuarial (gain) loss	 (233)	109
Benefit obligation at end of year	\$ 1,395	\$ 1,465

Change in plan assets:

	2	2023	202	2
Fair value of plan assets at beginning of year	\$		\$	
Employer contributions		7		42
Participant contributions		23		27
Benefits paid		(30)		(69)
Fair value of plan assets at end of year	\$		\$	

Amounts recognized in consolidated balance sheet:

	 2023	2022
Accumulated postretirement benefit obligation	\$ (1,395)	\$ (1,465)
Fair value of plan assets	_	
Funded status	(1,395)	(1,465)
Unrecognized prior service cost	9	74
Unrecognized net loss (gain)	(2)	(24)
Net amount recognized in consolidated balance sheet (after ASC 715) (included in "Other long-term obligations")	\$ (1,395)	\$ (1,465)
Accrued postretirement benefit cost (included in "Other long-term obligations")	N/A	N/A

Components of net periodic benefit cost:

	2023	 2022	2021
Service cost with interest to end of year	\$ 108	\$ 79	\$ 87
Interest cost	62	26	23
Amortization of prior service cost	_	9	74
Amortization of loss (gain)	 8	(2)	(24)
Total net periodic benefit cost	\$ 178	\$ 112	\$ 160

Estimated future employer contributions and benefit payments are as follows:

Year	
2024	\$ 131
2025	132
2026	99
2027	101
2028	85
Years 2029-2033	615

Assumptions to determine benefit obligations:

	2023	2022
Discount rate	4.15 %	4.40 %

Assumptions to determine net cost:

	2023	2022	2021
Discount rate	4.40 %	2.10 %	1.75 %

Defined Benefit Pension Plans

The Company contributes to one multi-employer defined benefit plan under the terms of a collective-bargaining agreement covering its union-represented employees of the Verona, Missouri facility. The risks of participation in this multiemployer plan are different from single-employer plans in the following aspects: (a) assets contributed to the multiemployer plan by one employer may be used to provide benefits to employees of other participating employers, (b) if a participating employer stops contributing to the plan, the unfunded obligations of the plan may be borne by the remaining participating employers, and (c) if the Company was to stop participating in its multiemployer plan, the Company would be required to pay that plan an amount based on the underfunded status of the plan, referred to as the withdrawal liability.

The Company's participation in this plan for the annual period ended December 31, 2023 is outlined in the table below. The "EIN/Pension Plan Number" column provides the Employee Identification Number (EIN). The zone status is based on information that the Company received from the plan and is certified by the plan's actuary. Among other factors, plans in the red zone or critical and declining zone are generally less than 65 percent funded, plans in the yellow zone are less than 80 percent funded, and plans in the green zone are at least 80 percent funded. The "FIP/RP Status Pending/Implemented" column indicates plans for which a financial improvement plan (FIP) or a rehabilitation plan (RP) is either pending or has been implemented. The last column lists the expiration date of the collective-bargaining agreement to which the plan is subject. Finally, the period-to-period comparability of the contributions for 2023 and 2022 was affected by a 4.0% increase in the 2023 contribution rate. There have been no other significant changes that affect the comparability of 2023 and 2022 contributions. The Company does not represent more than 5% of the contributions to this pension fund.

	ъ :	EIN/ Pension		sion Plan Protection Act Zone Status Pending			ntribution em Corpo		C 1	Date of Collective-
	Pension Fund	Plan Number	2023	2022	Pending/ Implemented	2023	2022	2021	Surcharge Imposed	Bargaining Agreement
S	entral States, outheast and Southwest Areas Pension Fund	36-6044243	Critical & Declining as of 1/1/23	Critical & Declining as of 1/1/22	Implemented	\$1,020	\$939	\$816	No	7/12/2025

The Company provides an unfunded defined benefit pension plan for employees working in Belgium. The plan provides for the payment of a lump sum at retirement or payments in case of death of the covered employees.

The actuarial recorded liabilities for such unfunded defined benefit pension plan are as follows:

Change in benefit obligation:

	 2023	2022
Benefit obligation at beginning of year	\$ 1,589	\$ 1,859
Service cost with interest to end of year	65	44
Interest cost	65	17
Participant contributions		27
Benefits paid	(188)	(60)
Actuarial loss (gain)	80	(194)
Exchange rate changes	 49	 (104)
Benefit obligation at end of year	\$ 1,660	\$ 1,589

Change in plan assets:

	 2023	2022
Fair value of plan assets at beginning of year	\$ 1,196	\$ 1,175
Actual return on plan assets	56	26
Employer contributions	138	94
Participant contributions		27
Benefits paid	(188)	(60)
Exchange rate changes	 38	(66)
Fair value of plan assets at end of year	\$ 1,240	\$ 1,196

Amounts recognized in consolidated balance sheet:

	 2023	2022
Benefit obligation	\$ (1,660)	\$ (1,589)
Fair value of plan assets	1,240	1,196
Funded status	(420)	(393)
Unrecognized prior service cost	N/A	N/A
Unrecognized net (gain)/loss	 N/A	N/A
Net amount recognized in consolidated balance sheet (after ASC 715) (included in other long-term obligations)	\$ (420)	\$ (393)
Accrued postretirement benefit cost (included in other long-term obligations)	N/A	N/A

Components of net periodic benefit cost:

	2	2023	2	2022	2021
Service cost with interest to end of year	\$	65	\$	44	\$ 67
Interest cost		65		17	14
Expected return on plan assets		(42)		(37)	(34)
Amortization of net loss					3
Total net periodic benefit cost	\$	88	\$	24	\$ 50

Estimated future benefit payments are as follows:

Year	
2024	\$ 1
2025	52
2026	1
2027	1
2028	1
Years 2029-2033	1,096

Assumptions to determine benefit obligations:

	2023	2022
Discount rate	3.45 %	4.00 %

Assumptions to determine net cost:

	2023	2022	2021
Discount rate	4.00 %	1.00 %	0.75 %
Expected return on assets	3.25 %	3.25 %	3.25 %

Deferred Compensation Plan

The Company maintains an unfunded, non-qualified deferred compensation plan for the benefit of a select group of management or highly compensated employees. Assets of the plan are held in a rabbi trust, which are subject to additional risk of loss in the event of bankruptcy or insolvency of the Company. The deferred compensation liability as of December 31, 2023 and 2022 was \$10,188 and \$8,543, respectively, and was included in "Other long-term obligations" on the Company's balance sheet. The related rabbi trust assets were \$10,188 and \$8,547 as of December 31, 2023 and 2022, respectively, and were included in "Other non-current assets" on the Company's consolidated balance sheets.

NOTE 16 - COMMITMENTS AND CONTINGENCIES

The Company is obligated to make rental payments under non-cancelable operating and finance leases. Aggregate future minimum rental payments required under these leases at December 31, 2023 are disclosed in Note 19, Leases.

The Company's Verona, Missouri facility, while held by a prior owner, Syntex Agribusiness, Inc. ("Syntex"), was designated by the U.S. Environmental Protection Agency (the "EPA") as a Superfund site and placed on the National Priorities List in 1983 because of dioxin contamination on portions of the site. Remediation was conducted by Syntex under the oversight of the EPA and the Missouri Department of Natural Resources. The Company is indemnified by the sellers under its May 2001 asset purchase agreement covering its acquisition of the Verona, Missouri facility for potential liabilities associated with the Superfund site. One of the sellers, in turn, has the benefit of certain contractual indemnification by Syntex in relation to the implementation of the above-described Superfund remedy. In June 2023, in response to a Special Notice Letter received from the EPA in 2022, BCP Ingredients, Inc. ("BCP"), the Company's subsidiary that operates the site, Syntex, EPA, and the State of Missouri entered into an Administrative Settlement Agreement and Order on Consent ("ASAOC") for a focused remedial investigation/feasibility study ("RI/FS") under which (a) BCP will conduct a source investigation of potential source(s) of releases of 1,4-dioxane and chlorobenzene at a portion of the site and (b) BCP and Syntex will complete a RI/FS to determine a potential remedy, if any is required. Activities under the ASAOC are underway and are expected to continue for some period of time.

Separately, in June 2022, the EPA conducted an inspection of BCP's Verona, Missouri facility ("2022 EPA Inspection") which was followed by BCP entering into an Administrative Order for Compliance on Consent ("AOC") with the EPA in relation to its risk management program at the Verona facility. Further, in January 2023, BCP entered into an Amended AOC with the EPA

whereby the parties agreed to the extension of certain timelines. BCP timely completed all requirements under the Amended AOC. In November 2023, BCP received a notice from the Environment and Natural Resources Division of the U.S Department of Justice ("DOJ") primarily related to the 2022 EPA Inspection, which extended the opportunity to discuss alleged violations of Sections 112(r)(7) of the Clean Air Act and regulations in 40 C.F.R. Part 68, commonly known as the Risk Management Plan Rule ("RMP Rule"). BCP intends to participate in such discussions in 2024. In connection with the 2022 EPA Inspection, the Company believes that a loss contingency in this matter is probable and reasonably estimable and has recorded a loss contingency in an amount that is not material to its financial performance or operations.

In addition to the above, from time to time, the Company is a party to various legal proceedings, litigation, claims and assessments. While it is not possible to predict the ultimate disposition of each of these matters, management believes that the ultimate outcome of such matters will not have a material effect on the Company's consolidated financial position, results of operations, liquidity or cash flows.

NOTE 17 – FAIR VALUE OF FINANCIAL INSTRUMENTS

The Company has a number of financial instruments, none of which are held for trading purposes. The Company estimates that the fair value of all financial instruments at December 31, 2023 and 2022 does not differ materially from the aggregate carrying values of its financial instruments recorded in the accompanying consolidated balance sheets. The estimated fair value amounts have been determined by the Company using available market information and appropriate valuation methodologies. Considerable judgment is necessarily required in interpreting market data to develop the estimates of fair value, and, accordingly, the estimates are not necessarily indicative of the amounts that the Company could realize in a current market exchange. The carrying value of debt approximates fair value as the interest rate is based on market and the Company's consolidated leverage ratio. The Company's financial instruments also include cash equivalents, accounts receivable, accounts payable, and accrued liabilities, which are carried at cost and approximate fair value due to the short-term maturity of these instruments. Cash and cash equivalents at December 31, 2023 and 2022 included \$959 and \$934 in money market funds and other interest-bearing deposit accounts, respectively.

Non-current assets at December 31, 2023 and 2022 included \$10,188 and \$8,547, respectively, of rabbi trust funds related to the Company's deferred compensation plan. The money market and rabbi trust funds are valued using level one inputs, as defined by ASC 820, "Fair Value Measurement."

The contingent consideration liabilities included on the balance sheet at of December 31, 2023 and 2022 amount to \$100 and \$11,400, respectively, and were valued using level three inputs, as defined by ASC 820, "Fair Value Measurement".

The Company also had derivative financial instruments, consisting of a cross-currency swap and an interest rate swap, which were included in "Derivative assets" in the Company's consolidated balance sheets. The fair values of these derivative instruments were determined based on Level 2 inputs, using significant inputs that are observable either directly or indirectly, including interest rate curves and implied volatilities. The Company settled its cross-currency swap and interest rate swap on June 27, 2023 and had no other derivatives outstanding as of December 31, 2023. The derivative assets related to the cross-currency swap and the interest rate swap were \$4,587 and \$1,406 at December 31, 2022, respectively.

NOTE 18 – RELATED PARTY TRANSACTIONS

The Company provides services under a contractual agreement to St. Gabriel CC Company, LLC. These services include accounting, information technology, quality control, and purchasing services, as well as operation of the St. Gabriel CC Company, LLC plant. The Company also sells raw materials to St. Gabriel CC Company, LLC. These raw materials are used in the production of finished goods that are, in turn, sold by Saint Gabriel CC Company, LLC to the Company for resale to unrelated parties. As such, the sale of these raw materials to St. Gabriel CC Company, LLC in this scenario lacks economic substance and therefore the Company does not include them in net sales within the consolidated statements of earnings.

Payments for the services the Company provided amounted to \$4,363, \$4,213, and \$3,637, respectively, for the years ended December 31, 2023, 2022, and 2021. The raw materials purchased and subsequently sold amounted to \$34,219, \$39,853, and \$27,915, respectively, for the years ended December 31, 2023, 2022, and 2021. These services and raw materials are primarily recorded in cost of goods sold, net of the finished goods received from St. Gabriel CC Company, LLC of \$28,099, \$29,062, and \$22,043, respectively, for the years ended December 31, 2023, 2022, and 2021. At December 31, 2023 and 2022, the Company had receivables of \$8,314 and \$8,820, respectively, recorded in accounts receivable from St. Gabriel CC Company, LLC for services rendered and raw materials sold. At December 31, 2023 and 2022, the Company had payables of \$6,050 and \$5,224,

respectively, recorded in accounts payable for finished goods received from St. Gabriel CC Company, LLC. In addition, the Company had payables in the amount of \$329 and \$296, respectively, related to non-contractual monies owed to St. Gabriel CC Company, LLC, recorded in accounts payable as of December 31, 2023 and 2022.

NOTE 19 - LEASES

The Company has both real estate leases and equipment leases. The main types of equipment leases include forklifts, trailers, printers and copiers, railcars, and trucks. Leases are categorized as both operating leases and finance leases. As a result of electing the practical expedient within ASU 2016-02, variable lease payments are combined and recognized on the balance sheet in the event that those charges and any related increases are explicitly stated in the lease. Such payments include common area maintenance charges, property taxes, and insurance charges and are recorded in the right of use asset and corresponding liability when the payments are stated in the lease with (a) fixed or in-substance fixed amounts, or (b) a variable payment based on an index or rate. Due to the acquisitive nature of the Company and the potential for synergies upon integration of acquired entities, the Company determined that the reasonably certain criterion could not be met for any renewal periods beginning two years from December 31, 2023. In addition, the Company has historically not been exercising purchase options under the equipment leases as it does not make economic sense to buy the equipment. Instead, the Company has historically replaced the equipment with new leases. Therefore, the Company determined that the reasonably certain criterion could not be met as it relates to purchase options. The Company has no residual value guarantees in lease transactions.

The Company did not identify any embedded leases. As indicated above, the Company elected the practical expedient to combine lease and non-lease components and recognizes the combined amount on the consolidated balance sheet. Management determined that since the Company has a centralized treasury function, the parent company would either fund or guarantee a subsidiary's loan for borrowing over a similar term. As such, the Company's management determined it is appropriate to utilize a corporate based borrowing rate for all locations. The Company developed four tranches of leases based on lease terms and these tranches reflect the composition of the current lease portfolio. The Company's borrowing history shows that interest rates of a term loan or a line of credit depend on the duration of the loan rather than the nature of the assets purchased by those funds. Based on this understanding, the Company elected to use a portfolio approach to discount rates, applying corporate rates to the tranches of leases based on lease terms. Based on the Company's risk rating, the company applied the following discount rates for new leases entered into during 2023: (1) 1-2 years, 5.45%-6.72% (2) 3-4 years, 6.04%-7.31% (3) 5-9 years, 6.38%-7.65% and (4) 10+ years, 7.10%-8.37%.

Right of use assets and lease liabilities at December 31, 2023 and 2022 are summarized as follows:

Right of use assets		2023		2022
Operating leases	\$	17,763	\$	17,094
Finance lease		2,101		2,338
Total	\$	19,864	\$	19,432
Lease liabilities - current		2023		2022
Operating leases	\$	3,949	\$	3,796
Finance lease		272		226
Total	\$	4,221	\$	4,022
Lease liabilities - non-current	2023		2022	
Operating leases	\$	14,601	\$	13,806
Finance lease		1,943		2,213
Total	\$	16,544	\$	16,019

For the years ended December 31, 2023, 2022, and 2021, the Company's total lease costs were as follows, which included both amounts recognized in profits or losses during the period and amounts capitalized on the balance sheet, and the cash flows arising from lease transactions:

Year ended December 31,					
2023 2022				2021	
\$	5,307	\$	4,478	\$	3,143
	242		210		210
	115		125		129
	357		335		339
\$	5,664	\$	4,813	\$	3,482
\$	4,757	\$	4,269	\$	3,097
	115		125		129
	222		177		159
\$	5,094	\$	4,571	\$	3,385
\$	6,365	\$	11,488	\$	3,804
	9.33 years	3	5.63 years		4.21 years
	9.07 years	3	9.95 years		11.41 years
	74%	/ 0	2.7 %	, 1	3.5 %
					5.1 %
	\$ \$	\$ 5,307 \$ 5,307 \$ 242 115 357 \$ 5,664 \$ 4,757 115 222 \$ 5,094 \$ 6,365 9.33 years 9.07 years	\$ 5,307 \$ 242 115 357 \$ 5,664 \$ \$ 4,757 \$ 115 222 \$ 5,094 \$	2023 2022 \$ 5,307 \$ 4,478 242 210 115 125 357 335 \$ 5,664 \$ 4,813 \$ 4,757 \$ 4,269 115 125 222 177 \$ 5,094 \$ 4,571 \$ 6,365 \$ 11,488 9.33 years 5.63 years 9.07 years 9.95 years 7.4 % 2.7 %	2023 2022 \$ 5,307 \$ 4,478 \$ 242 210 115 125 357 335 \$ 5,664 \$ 4,813 \$ \$ 115 125 222 177 \$ 5,094 \$ 4,571 \$ \$ 6,365 \$ 11,488 \$ 9.33 years 5.63 years 9.07 years 9.95 years 7.4 % 2.7 %

Rent expense charged to operations under operating lease agreements for 2023, 2022, and 2021 aggregated approximately \$5,307, \$4,478, and \$3,143, respectively.

Aggregate future minimum rental payments required under non-cancelable operating and finance leases at December 31, 2023 are as follows:

Year	
2024	\$ 5,407
2025	4,219
2026	3,638
2027	2,736
2028	2,219
Thereafter	 7,717
Total minimum lease payments	\$ 25,936

NOTE 20 – DERIVATIVE INSTRUMENTS AND HEDGING ACTIVITIES

On May 28, 2019, the Company entered into a pay-fixed (2.05%), receive-floating interest rate swap with a notional amount of \$108,569 and a maturity date of June 27, 2023, which was designated as cash flow hedge. The net interest income related to the interest rate swap contract were \$1,518 and \$400 for the years ended December 31, 2023 and 2022, respectively. The net interest expense related to the interest rate swap contract was \$2,144 for the year ended December 31, 2021. The net interest income and expense were recorded in the consolidated statements of earnings under "Interest expense, net."

On May 28, 2019, the Company also entered into a pay-fixed (0.00%), receive-fixed (2.05%) cross-currency swap to manage foreign exchange risk related to the Company's net investment in Chemogas, which was designated as net investment hedge. The derivative has a notional amount of \$108,569, an effective date of May 28, 2019, and a maturity date of June 27, 2023. The interest income related to the cross-currency swap contract was \$1,119, \$2,250, and \$2,257 for the years ended December 31, 2023, 2022, and 2021, respectively. The interest income was recorded in the consolidated statements of earnings under "Interest expense, net."

The Company settled its derivative instruments on their maturity date of June 27, 2023 and had no other derivatives outstanding as of December 31, 2023. The proceeds from the settlement of the cross-currency swap in the amount of \$2,740 were classified as investing activities in the Consolidated Statements of Cash Flows.

As of December 31, 2022, the fair value of the derivative instruments is presented as follows in the Company's consolidated balance sheets:

Derivative assets	Decem	ber 31, 2022
Interest rate swap	\$	1,406
Cross-currency swap		4,587
Derivative assets	\$	5,993

Gains and losses on our hedging instruments were recognized in accumulated other comprehensive income (loss) and categorized as follows for the years ended December 31, 2023, 2022, and 2021:

	Location within Statements of	 Yea	ar en	ded December	31,	
	Comprehensive Income	2023		2022		2021
Cash flow hedge (interest rate swap), net of tax	Unrealized (loss) gain on cash flow hedge, net	\$ (1,065)	\$	2,696	\$	2,053
Net investment hedge (cross- currency swap), net of tax	Net foreign currency translation adjustment	(1,455)		3,851		4,766
		\$ (2,520)	\$	6,547	\$	6,819

In connection with the Kappa acquisition (see Note 2, Significant Acquisitions), the Company entered into four short-term foreign currency exchange forward contracts to manage fluctuations in foreign currency exchange rates. The Company did not designate these contracts as hedged transactions under the applicable sections of ASC Topic 815, "Derivatives and Hedging". For the year ended December 31, 2022, the net gains on these forward contracts of \$512 were recorded in other income or loss in the consolidated statements of earnings. As of December 31, 2023, the Company did not maintain any open foreign currency exchange forward contracts as all four contracts expired during 2022.

NOTE 21 - QUARTERLY FINANCIAL INFORMATION (UNAUDITED) (In thousands, except per share data)

				2023	23							2022	22			
		First Quarter		Second Quarter		Third Quarter		Fourth Quarter	Ò	First Quarter	9 2 O	Second Third Quarter Quarter	0	Third Quarter	F O	Fourth Quarter
Net sales	\$	232,540	8	231,252	8	\$ 231,252 \$ 229,948 \$	\$	228,699	\$	228,867	\$	236,693	∽	244,267	\$	232,531
Gross margin		73,170		77,349		76,544		74,993		71,506		71,876		68,430		68,639
Earnings before income taxes		29,119		38,400		36,475		33,267		37,630		39,258		31,085		25,776
Net earnings		22,710		30,110		29,075		26,648		28,930		29,782		25,249		21,406
Basic net earnings per common share	\$	0.71	\$	0.94	∽	0.91	∽	0.83	\$	06.0	⊗	0.93	⇔	0.79	∽	0.67
Diluted net earnings per common share	↔	0.70	S	0.93	S	06.0	S	0.82	\$	0.89	↔	0.92	∽	0.78	∽	99.0

BALCHEM CORPORATION

Valuation and Qualifying Accounts

Years Ended December 31, 2023, 2022 and 2021 (In thousands)

	Allowance for Doubtful Accounts		Inventory Reserve
Balance - December 31, 2020	\$ 2,092	\$	2,782
Additions charged to costs and expenses	180		7,312
Adjustments/deductions (a)	(1,344)	<u> </u>	(8,669)
Balance - December 31, 2021	928		1,425
Additions charged to costs and expenses	401		6,786
Adjustments/deductions (a)	(103)		(5,571)
Balance - December 31, 2022	1,226		2,640
Additions charged to costs and expenses	37		2,450
Adjustments/deductions (a)	(355)		(2,627)
Balance - December 31, 2023	\$ 908	\$	2,463

⁽a) Represents write-offs and other adjustments

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

None.

Item 9A. Controls and Procedures

Disclosure Controls and Procedures

We maintain "disclosure controls and procedures," as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934 (the "Exchange Act"), that are designed to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in SEC rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure. In designing and evaluating our disclosure controls and procedures, management recognized that disclosure controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the disclosure controls and procedures are met. Additionally, in designing disclosure controls and procedures, our management necessarily was required to apply its judgment in evaluating the cost-benefit relationship of possible disclosure controls and procedures. The design of any disclosure controls and procedures also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions.

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of the design and operation of our disclosure controls and procedures as of December 31, 2023. Based on that evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that, as of such date, our disclosure controls and procedures were effective.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Our internal control over financial reporting is a process designed under the supervision of our principal executive and principal financial officers to provide reasonable assurance regarding the reliability of financial reporting and the preparation of our financial statements for external reporting purposes in accordance with U.S. generally accepted accounting principles.

Our internal control over financial reporting includes policies and procedures that pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and dispositions of assets; provide reasonable assurances that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. generally accepted accounting principles, and that receipts and expenditures are being made only in accordance with authorizations of our management and our directors; and provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of our 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. In addition, projections of any evaluation of controls effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

As of December 31, 2023, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in the 2013 Internal Control-Integrated Framework (New Framework) to conduct an assessment of the effectiveness of our internal control over financial reporting. Based on this assessment, management has determined that our internal control over financial reporting was effective as of December 31, 2023.

Attestation Report of Registered Public Accounting Firm

The independent registered public accounting firm of RSM US LLP has issued an attestation report on our internal control over financial reporting, which is included herein.

Changes in Internal Control Over Financial Reporting

There has been no significant change in our internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting. As of December 31, 2023, management's assessment of and conclusion of the effectiveness of our internal controls over financial reporting of both Kappa and Bergstrom have been

completed. Therefore, management's assessment of and conclusion of the effectiveness of our internal control over financial reporting also includes the internal controls over financial reporting of Kappa and Bergstrom.

Item 9B. Other Information

No directors or officers adopted, modified or terminated a Rule 10b5-1 trading arrangement during the fiscal quarter ended December 31, 2023.

PART III

Item 10. Directors, Executive Officers of the Registrant, and Corporate Governance.

The information regarding our executive officers is included in Part I of this report under the heading "Information about our Executive Officers."

The other information required by this item is incorporated by reference to the information contained under the headings "Proposal 1. Election of Directors", "Delinquent Section 16(a) Reports," and "Corporate Governance" in our Proxy Statement for the 2024 Annual Meeting of Shareholders which will be filed no later than 120 days after December 31, 2023 (the "2024 Proxy Statement").

Item 11. Executive Compensation.

The information required by this item is incorporated by reference to the information contained under the headings "Executive Compensation," "Compensation Committee Report," and "Compensation Committee Interlocks and Insider Participation" in our 2024 Proxy Statement.

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

The information required by this item is incorporated by reference to the information contained under the headings "Security Ownership of Certain Beneficial Owners and of Management" and Equity Compensation Plan Information" in our 2024 Proxy Statement.

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

The information required by this item is incorporated by reference to the information contained under the headings "Related Party Transactions" and "Director Independence" in our 2024 Proxy Statement.

Item 14. Principal Accountant Fees and Services.

The information required by this item is incorporated by reference to the information contained under the heading "Information Relating to Proposal 2. Ratification of Appointment of Independent Registered Public Accounting Firm" of our 2024 Proxy Statement.

PART IV

Item 15. Exhibits and Financial Statement Schedules.

The following documents are filed as part of this Form 10-K:

1.	Financial Statements	Page Number
	Report of Independent Registered Public Accounting Firm	29
	Consolidated Balance Sheets as of December 31, 2023 and 2022	31
	Consolidated Statements of Earnings for the years ended December 31, 2023, 2022 and 2021	32
	Consolidated Statements of Comprehensive Income for the years ended December 31, 2023, 2022 and 2021	33
	Consolidated Statements of Stockholders' Equity for the years ended December 31, 2023, 2022 and 2021	1 34
	Consolidated Statements of Cash Flows for the years ended December 31, 2023, 2022 and 2021	35
	Notes to Consolidated Financial Statements	36
2.	Financial Statement Schedules	
	Schedule II – Valuation and Qualifying Accounts for the years ended December 31, 2023, 2022 and 2021	l 67
3.	Exhibits	
2.1	Share Purchase Agreement between Kechu MidCo AS as the Seller and Balchem Corporation and B the Buyers regarding the sale and purchase of the shares in Kechu BidCo AS (incorporated by refer 2.1 of the Company's Current Report on Form 8-K filed on June 15, 2022).	
3.1	Balchem Corporation Composite Articles of Incorporation (incorporated by reference to Exhicompany's Annual Report on Form 10-K filed on March 16, 2006).	ibit 3.1 to the
3.2	Balchem Corporation Articles of Amendment (incorporated by reference to Exhibit A to the Comparing proxy statement on Schedule 14A filed on April 25, 2008).	any's definitive
3.3	Balchem Corporation Articles of Amendment (incorporated by reference to Exhibit A to the Comparing statement on Schedule 14A filed on April 28, 2011).	any's definitive
3.4	By-laws of the Company, as amended and restated as of December 5, 2022 (incorporated by reference to the Company's Current Report on Form 8-K filed on December 7, 2022)	e to Exhibit 3.1
4.1	Description of Securities (filed herewith).	
10.1	Balchem Corporation 401(k) Basic Plan Document #01, as amended by the Balchem Corporation 401 Amendment of January 1, 2023 (incorporated by reference to Exhibit 10.1 to the Company's Annual F 10-K filed on February 24, 2023).*	(K) Plan Report on Form
10.2	Balchem Corporation Second Amended and Restated 1999 Stock Plan, (incorporated by reference to Registration Statement on Form S-8, File No. 333-155655, filed on November 25, 2008, and to the Co Statement, filed on April 25, 2008).*	the Company's ompany's Proxy

10.3 Amended and Restated Credit Agreement dated July 27, 2022 (the "Amended Credit Agreement") among Balchem Corporation, the Domestic Guarantors (as defined in the Amended Credit Agreement), JPMorgan Chase Bank, N.A., as administrative agent, and the Lenders (as defined in the Amended Credit Agreement) (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K filed on August 1, 2022). 10.4 Security and Pledge Agreement dated July 27, 2022 among Balchem Corporation, the Obligors, and JPMorgan Chase Bank, N.A., (incorporated by reference to Exhibit 4.2 to the Company's Current Report on Form 8-K filed on August 1, 2022). 10.5 Balchem Corporation 2017 Omnibus Incentive Plan (incorporated by reference to the Company's Registration Statement on Form S-8, File No. 333-219722, filed on August 4, 2017 and Appendix A to the Company's Proxy Statement on Schedule 14A, filed on April 27, 2017).* 10.6 Amended and Restated Balchem Corporation 2017 Omnibus Incentive Plan (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K filed on June 26, 2023).* 10.7 Form of Agreement, Balchem Corporation Restricted Stock Grant Agreement (filed herewith).* 10.8 Form of Agreement, Balchem Corporation Performance Share Unit Grant Agreement (filed herewith).* 10.9 Form of Agreement, Balchem Corporation Stock Option Grant Agreement (filed herewith).* 10.10 Balchem Corporation Officer Retiree Program (filed herewith).* 10.11 Balchem Corporation Director Retiree Program (incorporated by reference to Exhibit 10.8 to the Company's Annual Report on Form 10-K filed on February 24, 2023).* 10.12 Employment Agreement, dated as of April 22, 2015, between the Company and Theodore L. Harris (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed on August 5, 2015).* Offer Letter dated January 10, 2019 between the Company and C. Martin Bengtsson (incorporated by reference to 10.13 Exhibit 10.1 to the Company's Current Report on Form 8-K filed on February 4, 2019).* 10.14 Theodore L. Harris Stock Option Grant Agreement, dated September 15, 2022 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q dated November 4, 2022).* 21.1 Subsidiaries of Registrant (filed herewith). 23.1 Consent of RSM US LLP, Independent Registered Public Accounting Firm (filed herewith). 31.1 Certification of Chief Executive Officer pursuant to Rule 13a-14(a) (filed herewith). 31.2 Certification of Chief Financial Officer pursuant to Rule 13a-14(a) (filed herewith). 32.1 Certification of Chief Executive Officer pursuant to Rule 13a-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code (filed herewith). 32.2 Certification of Chief Financial Officer pursuant to Rule 13a-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code (filed herewith). 97.1 Balchem Corporation Incentive-Based Compensation Recovery Policy (filed herewith).* 101.INS XBRL Instance Document 101.SCH XBRL 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

104 Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)

^{*} Each of the Exhibits noted by an asterisk is a management compensatory plan or arrangement.

SIGNATURES

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

Date: February 16, 2024 BALCHEM CORPORATION

By:/s/ Theodore L. Harris

Theodore L. Harris, Chairman, President

and Chief Executive Officer

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

/s/ Theodore L. Harris

Theodore L. Harris, Chairman, President and

Chief Executive Officer Date: February 16, 2024

/s/ C. Martin Bengtsson

C. Martin Bengtsson, Executive Vice President and

Chief Financial Officer
Date: February 16, 2024

/s/ William A. Backus

William A. Backus, Vice President and

Chief Accounting Officer Date: February 16, 2024

/s/ David B. Fischer

David B. Fischer, Director Date: February 16, 2024

/s/ Kathleen B. Fish

Kathleen B. Fish, Director Date: February 16, 2024

/s/ Daniel E. Knutson

Daniel E. Knutson, Director Date: February 16, 2024

/s/ Joyce J. Lee

Joyce J. Lee, Director Date: February 16, 2024

/s/ Olivier Rigaud

Olivier Rigaud, Director Date: February 16, 2024

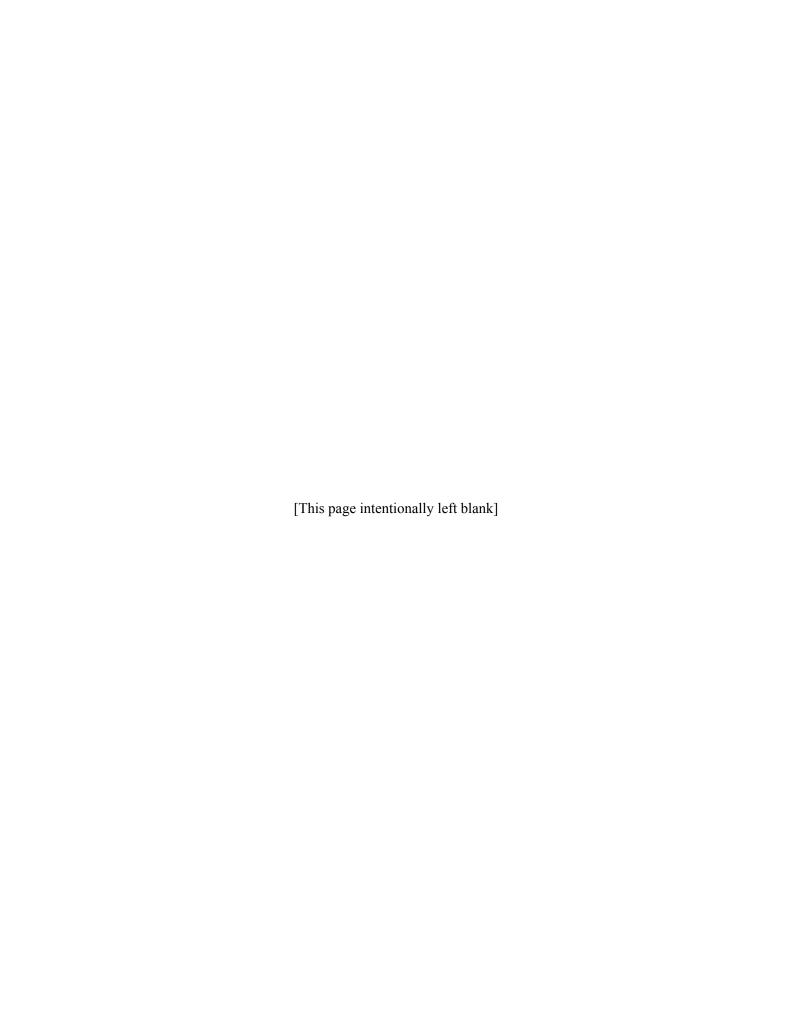
/s/ Monica Vicente

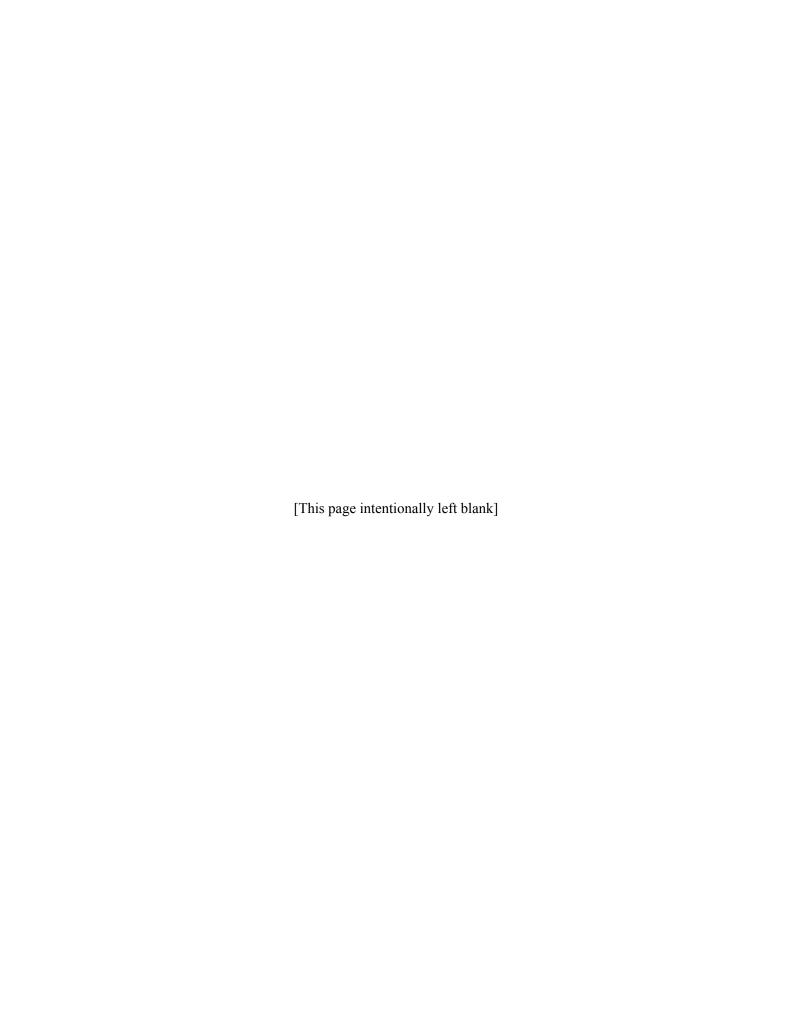
Monica Vicente, Director Date: February 16, 2024

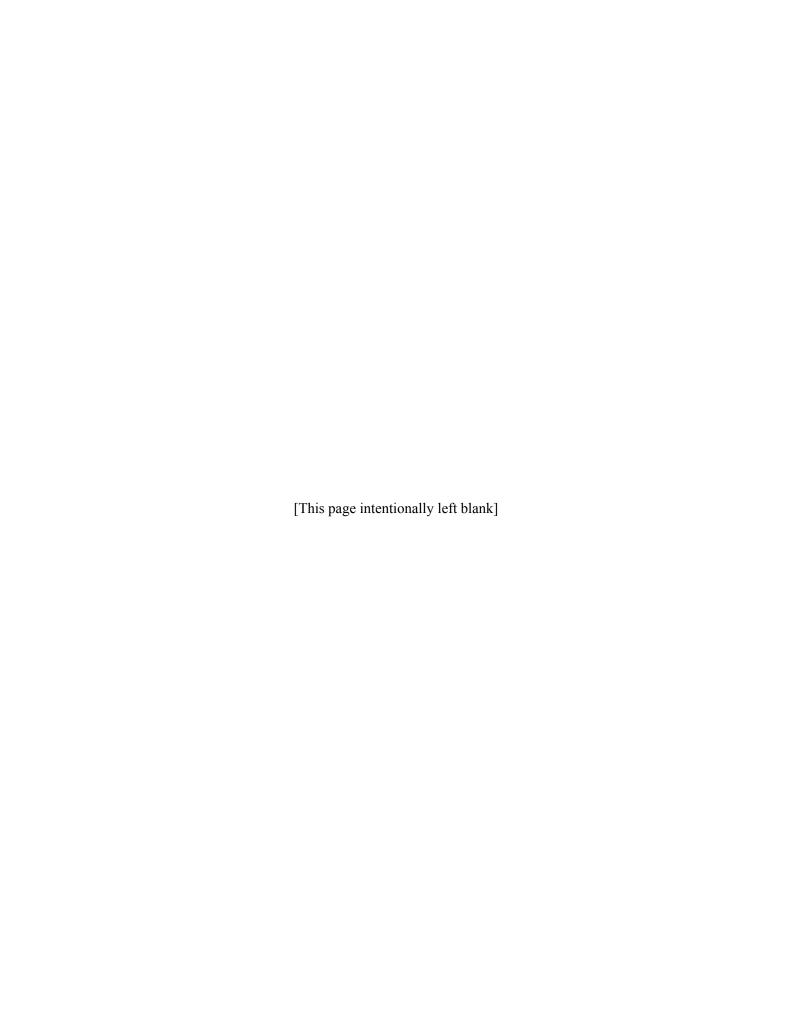
/s/ Matthew D. Wineinger

Matthew D. Wineinger, Director

Date: February 16, 2024









COMPANY INFORMATION

BOARD OF DIRECTORS

Theodore Harris
David Fischer
Kathleen Fish
Daniel Knutson
Joyce Lee
Olivier Rigaud
Monica Vicente
Matthew Wineinger

CORPORATE OFFICERS

Theodore Harris

Chairman, President and Chief Executive Officer

C. Martin Bengtsson

Executive Vice President and Chief Financial Officer

Hatsuki Miyata

Executive Vice President, General Counsel and Secretary

HEADQUARTERS

Balchem Corporation

5 Paragon Drive Montvale, NJ 07645 845.326.5600

STOCK LISTING

NASDAQ Global Select Market

Symbol: BCPC

WEBSITE

www.balchem.com

INVESTOR RELATIONS

Jacqueline Yarmolowicz 845.326.5600

TRANSFER AGENT

Broadridge Corporate Issuer Solutions

1155 Long Island Ave. Edgewood, NY 11717-8309 Attn: IWS

INDEPENDENT ACCOUNTANTS

RSM US LLP

151 West 42nd St., 19th Floor New York, NY 10036



Balchem Corporation

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