



**2022**  
**PRODUCTS**  
**SUSTAINABILITY**  
**REPORT**

ENTER

TOGETHER WE HAVE  
THE POWER TO WIN





# PRODUCTS

## Provide Safe & Effective Products for Consumers & the Environment

- Develop effective products that are safe for our consumers, the animals they care for and the environment worldwide
- Provide informed choices to consumers across the globe through ingredient transparency and disclosure





## Effective & Safe Products

### Our Global R&D Organization

Our global R&D employs a broad variety of scientists with specialties in product development chemistry, packaging and process engineering, toxicology, regulatory, quality and Sustainability. Our R&D budget continues to grow each year and demonstrates our commitment to innovation and quality products. We also have a strong external network of technical experts that enable our primary R&D center in Princeton, NJ, to interconnect with our facilities in Canada, Europe and China. This global R&D network ensures we provide the world's consumers with high quality ingredients and products in compliance with all safety and regulatory expectations.

## Our Commitment to a Global and Science-based Ingredient and Product Safety Assurance.

Our 4-step evaluation process is well above and beyond regulatory compliance and includes:

### Step 1. Safe and Sustainable Ingredient Selection.

- Review ingredients against our “Chemical of Concern” list to ensure use of the ingredient is not prohibited or restricted.
- Review extensive data sources for all traditional endpoints of toxicity - acute and chronic human, animal and environmental hazards. Strive to select safer chemicals that perform the same function.
- Develop a comprehensive exposure assessment to the ingredient in the product to establish a range of concentration that can be safely used in the product.
- Conduct a risk assessment to determine if we should use the ingredient. If safety cannot be confirmed, the ingredient is not allowed in the product, and we explore alternative ingredient(s).

### Step 2. Finished Product Evaluation.

Our global mission is to ensure safety of our products worldwide under expected use and reasonably foreseeable misuse conditions.

- An overall product health exposure and risk assessment is conducted. If there are any data gaps, a safety program consistent with our commitment to animal-alternative research is developed.
- A toxicologist and regulatory and legal counsel provide proper use instructions and ingredient and safety-related statements on package label and on the product website.
- Product Development and Quality Compliance teams ensure that the finished product meet all specifications such as formulation verification, stability, shelf life and preservative efficacy.



### Step 3. Pre-market Clearance.

- Prior to manufacture and shipment release of every product, R&D develops a pre-market dossier.
- The Quality Department reviews the pre-market dossier to ensure the ingredients and products meet our corporate and industry standards for safety, performance and stability, regulatory requirements and Sustainability.

### Step 4. Consumer Feedback, Vigilance and Post-market Surveillance.

Church & Dwight continues to place high value on insights from our consumers and customers on products within the market.

- Our dedicated internal team is now focused on assigned product categories, reporting to our internal stakeholders on emerging trends or issues arising from market feedback.
- Thanks to partnerships established with industry experts, we are able to more quickly and at a more granular level than before, identify emerging or new feedback related to adverse experiences. This has significantly helped to meet the requirements of a more rigorous regulatory environment, especially in the category of medical devices.
- Through the establishment of thresholds and defined “triggers for action,” our complaint handling processes are linked more closely with the Church & Dwight Quality Management System (QMS) ensuring significant complaints are reviewed, escalated and investigated quicker than before.





## Church & Dwight's Quality Management Systems (QMS)

Our QMS mirrors the highest standards in the industry reflecting global regulatory requirements and International Standards. Our quality-obsessed mentality ensures that all new products or enhancements meet rigorous standards prior to being sold to consumers. The standards include, but are not limited to, safety and performance testing, package evaluation and manufacturing qualifications. Our products are produced only after all ingredient and manufacturing suppliers are approved by the Quality Team. Finally, through ongoing performance evaluations against our product specifications, we deliver consistently high-quality products to our consumers.

## Continued Monitoring of Our Formulated Products for Chemicals of Concern

Our R&D Chemicals of Concern Committee has developed a master list of Chemicals of Concern for humans, pets and the environment. This list is derived from chemicals referenced in global regulations, scientific literature and customer/retailer guidelines such as California's Proposition 65, the International Agency for Research on Cancer (IARC), US National Toxicology Program, the U.S. Food and Drug Administration, the European Union list of Substances of Very High Concern, the United Nations Environment list of Endocrine Disrupting Chemicals, the International Fragrance Association Code of Practice and Retailer Restricted Substance Lists (RSLs).

Today, none of the chemicals on our master list will be intentionally added to any of our formulations. We also review formulations from our acquired brands to identify whether any Chemicals of Concern should be removed. If any are identified, an action plan is put in place to address it. Our Chemicals of Concern Committee regularly reviews current and emerging issues to determine whether additional chemical(s) should be added to our master list, should be removed from that master list or should be included on our Watch List for continued monitoring or early action. We continue to build on our commitment to safe products through expanded monitoring, enhanced systems and other improvements.

We design fragrance mixtures to comply with the safety standards set by the International Fragrance Association, and all flavor mixtures to those of the Flavor and Extract Manufacturers Association and our Chemicals of Concern process, in addition to regulatory requirements worldwide. We specially design mild fragrance oils for our scented sensitive skin products. We do not use phthalates in our fragrance oils or our finished products. Lilial has been fully removed from fragrance oils in our European cosmetic products, and we are in the process of removing it from cosmetic products in other geographies. Lyrall has been removed from over 90% of our fragrance oils, and we are in the process of removing it from the remaining fragrances globally.





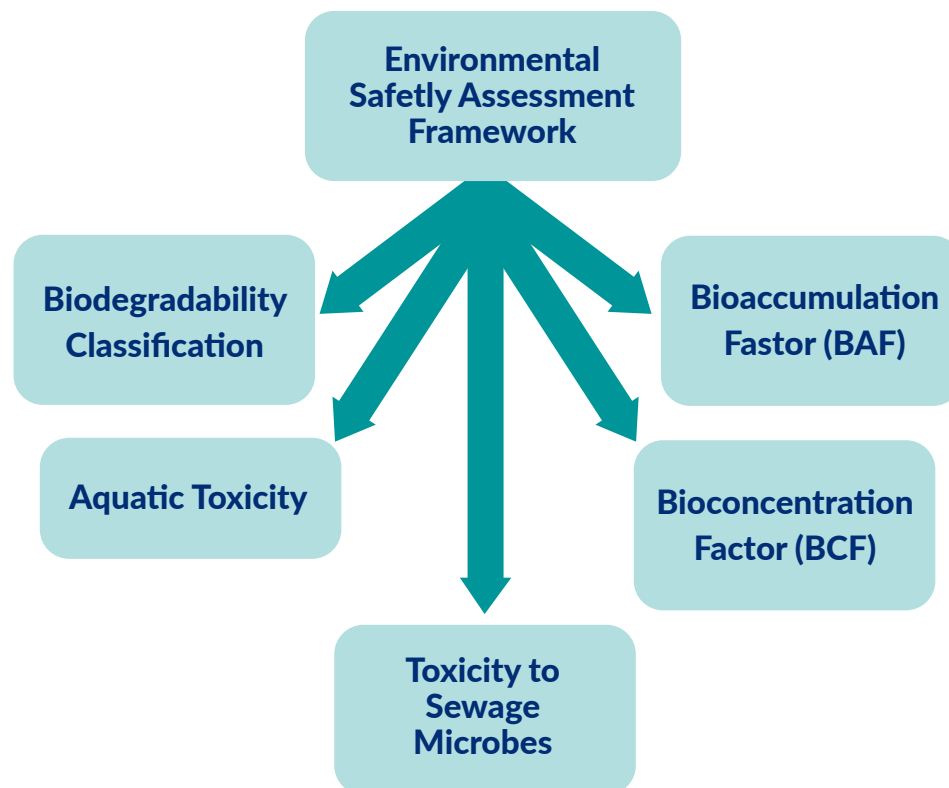
## Our Commitment to Animal-alternative Research

We do not conduct, nor do we request that our raw material suppliers conduct any animal studies unless absolutely required to comply with law or regulations. Our animal-alternative methods of safety and efficacy evaluation include publicly available toxicology and clinical safety data, computer (in silico) and human simulated modeling and in vitro and clinical testing.

While many in vitro methodologies are validated for single ingredients, they are not fully validated for ingredient mixtures such as finished products. Therefore, we continue to invest in in vitro testing validation and participate in collaborations with industry, regulatory agencies and special interest groups to validate in vitro testing for chemical mixtures. As an example, in collaboration with a consortium of personal lubricant manufacturers and an in vitro testing company, we have joined a project co-organized by the PETA Science Consortium International to demonstrate that a human cell-based test system can be used for regulatory decision-making. This project is organized through the FDA's Medical Device Development Tools (MDDT) program, a recently restructured approach to involving the FDA in the development of modern animal-free approaches to product testing.

## Environmental Safety Assurance Process

Environmental safety has been one of our high priority considerations in ingredient selection and product development. We have a Corporate Environmental Safety Assessment Framework with a more robust approach to further enhance our environmental safety assessments for ingredients and products consistent with our 2025 Sustainability goal. Within this framework, each chemical in a specific formulation will be evaluated against five endpoints in environmental toxicity. Two successful projects included a down-the-drain product and a rinse-off product. We will apply this robust environmental safety assurance process to all our product categories.



## Sustainability & Innovation

Sustainability has become a core value for our innovation teams, ensuring that all our new product innovation paths are involving carefully chosen and impactful Sustainability criteria. We continue to identify innovation opportunities to minimize water or energy requirements in manufacturing or consumer use, minimize transportation impact, increase recyclability of packaging, etc.

- We have incorporated tools originated in best practices of Design for Sustainability. For example, we have included them in our Integrated Design Thinking (IDT) practices and in our new product Stage Gate scorecards. In addition, we continually develop new curated Sustainability tools and flexible processes to further enable and encourage our scientists to incorporate Sustainability at all stages of the innovation and development process.
- We recognize that Sustainability is an integral part of the consumer journey, and it is crucial to incorporate it in delivering winning consumer experiences. As such, we dedicate significant efforts to understanding consumer wants and needs to better design sustainable solutions with the consumer in mind.
- The innovation Sustainability principles are applied to our internal discovery, development and delivery work, but also to inputs and deliverables from our external innovation partners and collaboration ecosystems. Open innovation becomes a tool to indirectly influence Sustainability approaches outside our company.





## Ingredient Disclosure

All ingredients included in the formulations for our products are disclosed online or on-pack. We devote significant attention and care to transparently disclosing ingredient and safety information for our products. Safety Data Sheets for our products are available on our website. We disclose ingredients in all our products in accordance with the relevant federal regulations.

## Global Standardization of Our Products While Adapting to Local Product Needs

Our R&D organization has adopted a “One R&D - Think and Act Global” approach while adapting to local needs. We strive to develop a single formula to meet the needs of consumers worldwide, thereby simplifying and improving our agility to changing needs. We also offer variation(s) of a global formula based on the local consumer preferences, socioeconomics, manufacturing and distributions.

## Alternatives

Our Animal and Food Production business serves a vitally important purpose—to feed people. With our food safety antimicrobial technologies, we are helping customers supply a wholesome and safe food supply to meet the demands of a growing population. Our natural feed ingredients for livestock and poultry, such as prebiotics and probiotics, provide protein producers alternatives to antibiotics.

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## Highlights of 2022 Product Innovation Accomplishments

- Laundry Detergents Water Reduction and Energy Efficiency.** Our new concentrated ARM & HAMMER and XTRA liquid laundry detergent formulas are formulated with less water used per load. The new concentrated formulas deliver the same great performance that consumers have grown to love and expect from the ARM & HAMMER and XTRA brands while allowing them to use less product per load and wash in cold water.
- Cat Litter Feedstock.** In 2022, our ARM & HAMMER brand team launched Hardball, a new lightweight cat litter made from sorghum grain particles that quickly shrinks cat waste and odors into ultracompact clumps for easy, no-mess scooping. This litter is 60% lighter in weight than our clay-based litter, so it will produce less CO2 emissions related to transportation.
- EPA's Safer Choice 2022 Partner Award Winner.** Church & Dwight was recognized by the Environmental Protection Agency (EPA) for its efforts in promoting safer chemistry and consumer choice and received a Safer Choice 2022 Formulator-Product Manufacturer Partner of the Year Award. Two ARM & HAMMER laundry products – ARM & HAMMER Baby Laundry Detergent and ARM & HAMMER Clean & Simple Laundry Detergent – are EPA Safer Choice-certified. From removing phosphates in all detergents to using recycled materials for packaging, Sustainability and the well-being of consumers is at the heart of ARM & HAMMER business and product development. Building on this, we continue to pursue new potential opportunities for partnership with the EPA's Safer Choice program.

- Expansion of ARM & HAMMER Sensitive Skin Detergent Portfolio Certified by SkinSAFE™.** In addition to our ARM & HAMMER Free & Clear sensitive skin detergent, ARM & HAMMER Sensitive Skin Plus Scent Liquid Laundry Detergent and ARM & HAMMER Sensitive Scent Unit Dose have been certified by SkinSAFE™. Many consumers with sensitive skin are looking for a sensitive product that is scented. The data-driven SkinSafe platform developed in collaboration with the Mayo Clinic uses ingredient data to help people with sensitive skin find products that meet their sensitive skin needs and avoid products that don't. The ARM & HAMMER Sensitive Skin Plus Scent Liquid Laundry Detergent and Sensitive Scent Unit Dose are free from dyes and preservatives and contain fragrances that were formulated without any of the 26 EU allergens. The fragrances and finished products were evaluated in clinical safety tests among self-assessed sensitive skin population. The products are designed to work in both standard machines and today's energy conscious high efficiency (HE) models.



- **Perfecting Waterless Hair Removal Helps Conserve Precious Resource.** Our FLAWLESS products are helping women everywhere conserve on water consumption. A single woman can potentially help save 180 thousand gallons of fresh water simply by using FLAWLESS waterless hair removal devices. (See [FlawlessBeauty.com](https://www.flawlessbeauty.com) for more.)



- **WATERPIK.** In 2022, the WATERPIK brand continued the expansion of the high efficiency, EPA WaterSense certified showerhead product portfolio. These showerheads are engineered to maximize performance while reducing flow rates by up to 28% versus 2.5 gpm showerheads. Approximately 89% of WATERPIK showerheads shipped in the U.S. in 2022 were WaterSense certified.
- **Consumer and Health Care Professionals/Practitioners (HCP) Education on Benefits of Vitamin D.** In 2022, we continued to partner with the Council for Responsible Nutrition Foundation to establish “Vitamin D and Me” website. The website is intended to educate consumers and HCPs on fact-based benefits of Vitamin D including its role in immunity and the current robust clinical research on potential benefits of Vitamin D in association with the COVID-19 pandemic.





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