

Position on Sustainable Products and Packaging

Background

Our commitment to environmental sustainability is grounded in our values and inspired by our purpose. According to the Global Footprint Network, a global research organization, if trends continue, natural resources from the equivalent of two planet Earths will be needed to support the world's growing population by 2030.¹ We use natural resources to make our products that millions of people rely on every day. It is vitally important that we operate our business within planetary boundaries.

Relevance

As a leader in the healthcare industry, Johnson & Johnson knows that human health is inextricably linked to the health of the planet—we can't have healthy people and communities without a healthy environment. To this end, we are committed to marshaling our expertise, resources and partnerships to reduce the environmental footprint of our operations, our products and our extended supply chain while advancing better health for all. We are committed to developing more sustainable products that use fewer, smarter resources and contribute to a healthier planet.

Guiding Principles

As stated in [Our Credo](#): “We are responsible to the communities in which we live and work and to the world community as well. We must maintain in good order the property we are privileged to use, protecting the environment and natural resources.”

Our Position

Our approach to sustainable products and packaging is grounded in science and takes into account the environmental impacts throughout a product's lifecycle—from design and formulation, through raw material sourcing and manufacturing, to product use and end of life.

Our commitment to product sustainability includes:

- Assessing lifecycle environmental impacts across product categories and platforms to proactively identify opportunities for improvement;
- Integrating sustainability considerations at the design phase of new products to identify potential environmental improvements;
- Selecting and sourcing more sustainable ingredients;
- Applying green chemistry and engineering principles in design and manufacturing; and

¹ https://www.footprintnetwork.org/content/images/article_uploads/LPR_2010_WP.pdf

- Developing more sustainable packaging, including designing for recyclability;
- Managing product end-of-life impacts, including the effects of pharmaceuticals and personal care products in the environment as well as educating end-users on proper use and end of life management.

EARTHWARDS – Our Approach to More Sustainable Products

EARTHWARDS is our approach for guiding the development of more sustainable products. Focusing on the lifecycle areas with the highest potential impact, we prioritize improvements for the largest possible impact reduction. We use the EARTHWARDS approach to drive continuous sustainable innovation by ensuring that new products meet specific product stewardship requirements and helping product teams to understand the product category's lifecycle impact areas.

The EARTHWARDS approach is comprised of a four-part process compelling new products to:

Meet product stewardship requirements: The EARTHWARDS approach starts with making sure that every product satisfies environmental product regulatory compliance requirements.

Review lifecycle impacts: Life Cycle Assessment is the process of determining the environmental impacts associated with each stage in a product's lifecycle, from raw materials sourcing through customer use to end of life. The lifecycle impacts of products are screened at the category level. Opportunities to drive improvement are considered at all stages of the product lifecycle, including the design, procurement, manufacturing, distribution and use stages.

Identify sustainability improvements: Understanding environmental impacts across a product's lifecycle helps product development teams to prioritize improvements for highest impact across seven key areas: materials, packaging, energy, water, waste, and social and technical innovation.

Achieve EARTHWARDS recognition: When a product achieves at least three significant improvements across our seven impact areas, a board that includes external and internal experts determines if it warrants an EARTHWARDS recognition. Our adherence to the EARTHWARDS methodology is audited annually by an external verification company.

Green Chemistry and Engineering

We believe application of green chemistry and engineering principles offers significant environmental and business benefits as it increases resource efficiency, promotes the use of safer solvents and reagents, and generates less waste while enabling production cost savings that help our business perform better. Janssen is a founding member of the American Chemical Society (ACS) Green Chemistry Institute® Pharmaceutical Roundtable and has been participating in the European CHEM21 project since its inception in 2012. These forums offer an opportunity to share industry tools and best practices, and direct academic research to develop greener manufacturing of active pharmaceutical ingredients (APIs). We integrate the 12 principles of green chemistry and engineering adopted by ACS into our product development practices, which results in better synthesis routes that demonstrate improved process mass intensities (PMIs). PMI is used as a dimensionless metric to measure the mass of raw materials required to manufacture one mass unit of API. Improving the PMI means fewer raw materials are required, resulting in less waste generated.

Sustainable Packaging

Packaging plays a critical role in maintaining the quality, safety and integrity of our products throughout the value chain. It also delivers important information to patients and consumers about product composition and guidance for proper use. All our product packaging must comply with local packaging regulations in all

countries where they are manufactured and sold. In addition, we continuously explore opportunities to reduce environmental impacts of our packaging by focusing on the following:

- Reducing material use by decreasing packaging size, weight or thickness;
- Using packaging materials with recycled content;
- Designing for recyclability by selecting materials that are already widely recycled;
- Purchasing responsibly sourced packaging materials; and
- Influencing recycling rates by raising consumer and customer awareness.

Additional Positions Related to Sustainable Products and Packaging

Our commitment to environmental health includes sourcing our raw materials and packaging in a sustainable manner, both to mitigate the effects of planetary resource depletion and to protect biodiversity. To learn more, see our [Wood-Fiber Products Sourcing Criteria](#), [Responsible Palm Oil Sourcing Criteria](#), [Responsibility Standards for Suppliers](#) and [Position on Respecting Biodiversity](#).

As a science-based healthcare company, Johnson & Johnson is committed to advancing society's understanding of how pharmaceuticals and personal care products impact the environment so that we can protect environmental and human health. To learn more, see our [Position on Impact of Pharmaceuticals and Personal Care Products in the Environment](#).

We publicly disclose on our progress on sustainable products and packaging annually in our [Health for Humanity Report](#), and also provide updates on progress against specific commitments we have undertaken in this area.

Application

This position is relevant for the Johnson & Johnson Family of Companies, as detailed in our [governance materials](#).

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