



Gattefossé debuts Noxifense™: the 360° sensitive skin revolution

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This year, at in-cosmetics global, the French-heritage raw material supplier Gattefossé proudly announces the launch of Noxifense™, a groundbreaking active ingredient set to transform the booming sensitive skin market with a comprehensive 360° approach.

The skin, the body's most exposed organ, is highly susceptible to environmental stressors collectively known as the exposome. This exposure disrupts the skin's delicate balance by triggering two intertwined biological pathways: oxidation and inflammation. Recently theorized as oxi-inflammation, this phenomenon primarily affects epidermal lipids and is considered a root cause of heightened skin sensitivity.



"The sensitive skin market is among the most dynamic segments in skincare, driven by increasingly harsh environmental factors such as UV exposure, pollution, and stress. Sensitive skin spans all skin types, making soothing cosmetic products the new industry standard.

Over the past years, our research team has delved into oxi-inflammation, leading to the development of Noxifense™ - a novel solution that addresses skin sensitivity by protecting essential skin lipids from harmful oxi-inflammatory environments".

Laurie CANEL, Product marketing leader, active ingredients.

Sea Buckthorn: a potent anti-oxi-inflammatory powerhouse

[Noxifense™](#) harnesses the power of sea buckthorn, a versatile plant used in food, traditional medicine, or horticulture for at least 1,200 years.

This particularly resilient shrub thrives in extreme conditions due to its richness in protective antioxidant and anti-inflammatory polyphenols.

Embracing upcycling principles, Gattefossé transforms the overlooked leaves sourced from a family-owned organic orchard in Quebec, Canada.

A streamlined, energy-efficient extraction process was developed to maximize the bioactive compounds. The final extract is rich in flavonol glycosides and ellagitannins, key molecules that contribute to the soothing properties of Noxifense™

The ingredient is 100% natural, organic-certified, and preservative-free.

The protection of epidermal lipids from exposome assaults

Noxifense™ excels in calming the oxi-inflammatory environment caused by exposome-related stressors at the epidermal lipid level.

Lipids are vital protective components, yet their complex structure and organization make them challenging to study using existing *in vitro* models.



"Our exhaustive study program investigates the entire oxi-inflammation process affecting epidermal lipids, from the stratum corneum to the keratinocyte membrane. We developed innovative and relevant models that accurately simulate lipid peroxidation in the stratum corneum and viable epidermis under various external aggressions (UV, pollution, cigarette smoke). These models were essential in demonstrating Noxifense™'s ability to disrupt the oxi-inflammation cycle."

Chloé Lorion, Research & Development Engineer in skin biology.

Noxifense™ effectively breaks the oxi-inflammation vicious cycle through a dual action. It inhibits the NF-κB pathway to prevent inflammation while enhancing the skin's antioxidant defense system, significantly reducing intracellular ROS levels.

A shot of serenity for the most sensitive skins

In a clinical study conducted on Asian volunteers with sensitive skin, Noxifense™ significantly reduced stinging sensations, soothed the skin, and improved overall skin comfort, texture, and tone, helping consumers say goodbye to redness and hello to smooth, radiant skin.

Discover Noxifense™ at in-cosmetics global

Gattefossé will present Noxifense™ on stand 5C60 in Amsterdam, from April 8 to 10.

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About Gattefossé

The Gattefossé Group is a community of employees, animated by the same drivers: the performance of its products and the personalized support of its customers.

Gattefossé develops, manufactures and sells pharmaceutical excipients and cosmetic ingredients of natural origin for the beauty and health industries worldwide, through its 12 affiliated companies and network of global agents and distributors.

Specialist in lipid chemistry and plant chemistry, Gattefossé offers recognized expertise in formulation using its 4 Technical Centers of Excellence in France, China, India and the United States.

Environmental and social issues have always been part of the culture of this French family business, founded in Lyon in 1880. Today, Gattefossé relies on a purposeful CSR approach to build its innovation and development strategy.