

SUSTAINABLE PORTFOLIO OFFERING NUTRINOVA® POTASSIUM SORBATE BFX ECO-B

A SUSTAINABLE, DROP-IN SOLUTION FOR THE HOME CARE INDUSTRY

Manufacturers in the home care industry are striving to reduce the environmental impact of their products and operations to meet sustainability goals. This results in a growing demand for raw materials with a reduced CO_2 footprint.

Potassium sorbate has a long history of safe use as a preservative in food, personal care and pharmaceutical products. It has excellent skin compatibility, is non-skin sensitizing and is readily biodegradable. However, up to now, it has only been available manufactured from fossil-based feedstocks.

Leveraging over 50 years of experience in manufacturing sorbates, Nutrinova is now introducing Nutrinova® Potassium Sorbate BFX ECO-B.



- · Drop in replacement, no requalification needed
- Up to 70% Carbon footprint reduction
- 100 % bio-carbon content (mass balance)
- Reduced use of fossil resources
- Non-skin sensitizing, suitable for 'H317 label free' products
- Compliant with ECOCERT, Nordic Ecolabel, EU Ecolabel ...
- Readily biodegradable
- Well established preservative with proven efficacy



Nutrinova® Potassium Sorbate BFX ECO-B has 100% biocarbon content using a mass balance approach and a ${\rm CO_2}$ footprint reduction of at least 70% as compared to our conventional, fossil resources based, potassium sorbate.

Nutrinova® Potassium Sorbate BFX ECO-B is manufactured using chemically identical, biobased feedstocks. Our unique manufacturing processes is kept unchanged. Therefore, there are no differences in the chemical and physical properties of the final product. No product requalification is necessary and the performance is not sacrificed.

The renewable feedstocks are derived from waste material and do not contain food or feed crops.

Thanks to the bio-based, mass balance approach, the use of fossil resources is reduced and the bio-based supply chain is supported.



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At Nutrinova, we are focused on expanding our portfolio with sustainable offerings to meet the growing customer and consumer demand for more sustainable products. Our Nutrinova® Potassium Sorbate BFX ECO-B is a sustainable, dropin solution enabling our customers to reduce their ${\rm CO_2}$ footprint and at the same time increase the usage of renewable feedstocks.

Environmentally friendly

- · Readily biodegradable
- German water hazard class 0 = generally no hazard to waters
- Considered nature-identical and compliant with Ecolabels, such as ECOCERT,
 EU Ecolabel, Nordic Ecolabel and Safer Choice

Consumer friendly

- Non-skin sensitizing, suitable for 'H317 label free' products
- Excellent skin tolerance
- · Long history of safe use in food, feed, cosmetic and pharmaceutical formulations

Efficient

- Demonstrated efficacy against bacteria and fungi in surfactant formulations at pH ≤ 7
- Suitable for hand dishwashing liquids, fabric conditioners, multi-purpose cleaners
- Well-known as an effective preservative as such, or in blends, for personal care and cosmetic products

Responsible

- · Produced in a 'closed plant' with certified waste disposal
- · Accountability given through EU law
- Full traceability through the entire supply chain
- In compliance with the latest requirements for safety, quality and responsible manufacturing*

Sustainable

- Up to 70% Carbon footprint reduction
- 100% bio-carbon content (mass balance)
- · Reduced use of fossil resources

*Certificates available on request

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Brochure Publication Number: FOOD-001-NutrinovaSorbatesECOB_BFX-PI-EN-0623

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