



Personal Care

Sincerely Yours



EcoSense™ Surfactants

Frequently Asked Questions



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This file has been designed to help you to find information about EcoSense Surfactants quickly and easily.

Physical and Chemical Properties

What are EcoSense Surfactants?

EcoSense Surfactants are a family of naturally sourced, biodegradable surfactants for use in personal care applications such as shampoos and body washes.

What is the INCI name of EcoSense Surfactants?

EcoSense Surfactants belong to the family of Alkyl Polyglucosides. The INCI names for the three grades within the family are:

- EcoSense 1200 Surfactant: Lauryl Glucoside
- EcoSense 919 Surfactant: Coco-Glucoside
- EcoSense 3000 Surfactant: Decyl Glucoside

What is the ionicity of EcoSense Surfactants?

EcoSense Surfactants are nonionic surfactants as supplied.

What is the solids content of EcoSense Surfactant products?

EcoSense Surfactants are about 50% solid.

Do EcoSense Surfactants contain added preservatives like parabens?

EcoSense Surfactants are preservative-free.

What is the pH of EcoSense Surfactants?

The pH values range between 11.5 - 12.5.

Are there known incompatibilities between EcoSense Surfactants and standard cosmetic ingredients?

EcoSense Surfactants have been tested in a range of shampoo and body wash formulations. They are compatible with a broad range of surfactants, rheology modifiers and cationic conditioning polymers.

General and Miscellaneous

Are EcoSense Surfactants based on a patented technology?

EcoSense surfactants are produced by a patented process.

Manufacturing and Supply

Where are EcoSense Surfactants manufactured?

EcoSense Surfactants are currently manufactured in Asia.

Are EcoSense Surfactants available in my region?

EcoSense Surfactants can be made available globally.

In what container and size are EcoSense Surfactants available?

EcoSense Surfactants are supplied in drums of 220 kg.

Handling and Formulation

Are the products easy to pump?

EcoSense 3000 and 919 Surfactants are supplied as low-viscosity liquids and are therefore easy to pump. Pumping of EcoSense 1200 can be facilitated by heating the drum to about 45°C prior to use.

Are the surfactants sensitive to shear?

EcoSense Surfactants are typically not sensitive to shear.

Are the surfactants sensitive to extreme temperatures?

EcoSense Surfactants should be stored at temperatures below 40°C. Some sedimentation or crystallization may occur during storage. If sedimentation has occurred, gently heat the product to about 45°C and stir until uniform. Do not heat to above 50°C for prolonged periods of time to avoid discoloration.

What is the shelf life of EcoSense Surfactants?

The shelf life of EcoSense Surfactants is 24 months.

Should I take any precautions before using EcoSense Surfactants?

The container should be gently stirred or shaken before use to homogenize the solids.

How do I formulate with EcoSense Surfactants?

Starting point formulations and instructions are available upon request.

Do I need high shear to disperse EcoSense™ Surfactants in my formulation?

No, high shear is not needed to disperse EcoSense Surfactants in formulations.

What is the best way to introduce EcoSense Surfactants in my formulation?

We recommend that EcoSense Surfactants be dispersed in water with moderate agitation.

Will EcoSense Surfactants influence the pH of my formulation?

EcoSense Surfactants will typically fit within the desirable pH range for shampoo and body wash formulations, though the final pH will depend upon the use level of the surfactant.

Will EcoSense Surfactants be stable in my formulation?

EcoSense Surfactants are typically stable in formulations.

Within which range of pH can EcoSense Surfactants be used?

The recommended pH range is 5.0 – 7.0, though this may depend on the individual formulation characteristics desired.

Performance

What are the main benefits offered by EcoSense Surfactants?

EcoSense Surfactants offer customers a biodegradable, plant-based surfactant option that is mild on the hair and skin to use in formulations. In addition, formulations based on EcoSense 919 and 1200 were found to have increased flash foam, and be milder as compared to formulations based on competitive Alkyl Polyglucoside products.

What is the mechanism of action providing this benefit?

Because EcoSense Surfactants are naturally derived, they facilitate effective cleansing with a reduced potential for irritation to the hair and skin.

At what level should EcoSense Surfactants be used?

The recommended usage level for EcoSense Surfactants is 1 – 15%, though this may depend on the individual formulations characteristics desired.

Will EcoSense Surfactants impact the appearance of my formulation?

EcoSense Surfactants will typically not have a negative impact on the appearance of formulations.

Regulatory Status / Health and Safety

Have EcoSense Surfactants ever been tested on animals?

No, EcoSense Surfactants have not been tested on animals.

What toxicology data is available for EcoSense Surfactants?

A Toxicology Statement can be made available upon request.

For more information on EcoSense Surfactants, please contact us at the number listed on the back of this brochure for your region, or visit us online at www.dowpersonalcare.com.

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