

HONEYSURF^{HF}

Bio-engineered by Holiferm.

HoneySurf HF Technical Data



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Information

Created using a yeast found in honey, HoneySurf HF biosurfactant is produced by a natural, low carbon fermentation process. HoneySurf HF biosurfactant generates and stabilises foam and can be formulated for a variety of applications including car cleaning, manual dishwashing, snow foam cleaners and bathroom cleaning.

HoneySurf HF biosurfactant exhibits an extremely low toxicological profile.

General Information

General Description

Sophorolipid

Chemical Description

Glycolipids, sophorose-contg., *Starmerella bombicola*-fermented, from C16-18 and C- 18 unsatd. glycerides and D-glucose, hydrolysed, sodium salts.

INCI Name

Glycolipids.

Additional information

Manufactured using natural raw material feedstocks.

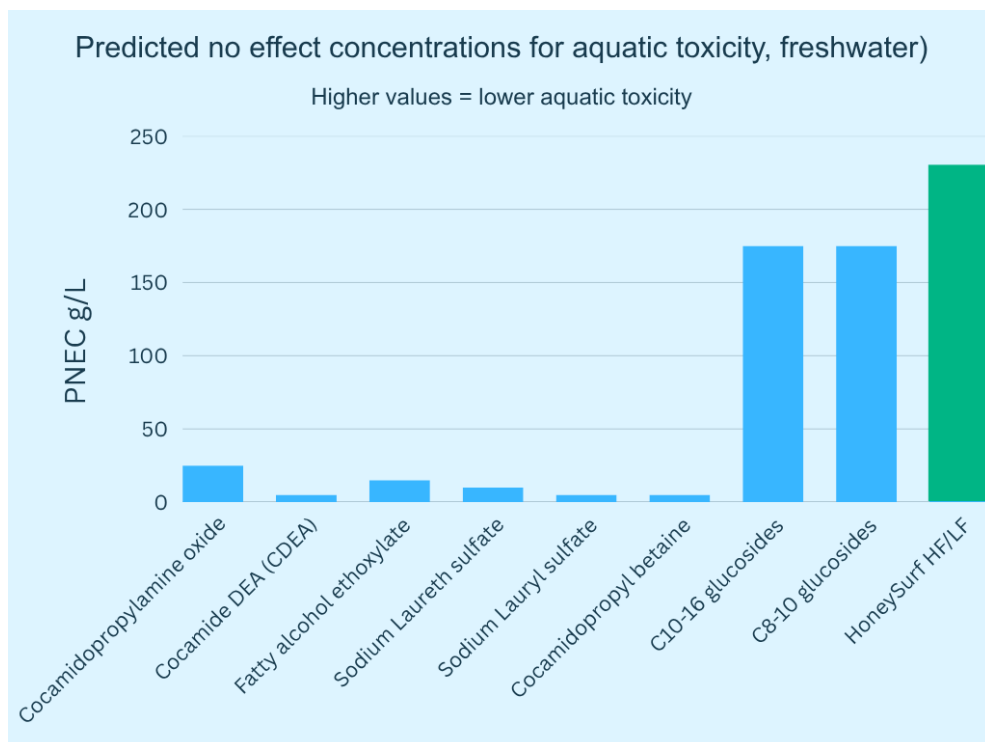
Properties

- Effective solubiliser
- Suitable for use in high foam concentrations
- Ultra-mild to surfaces
- Suitable for formulations used by children
- Suitable for use in pet formulations
- Recommended for formulations with a pH of 3-10
- Suitable for EU ECOLABEL
- Natural origin index 100% (ISO 16128)



Aquatic Toxicity

HoneySurf HF has superior ecotoxicological properties compared to other commonly used surfactants in the home care market. The graph below compares the Predicted No Effect Concentration (PNEC) of HoneySurf HF against other surfactants used in homecare applications:

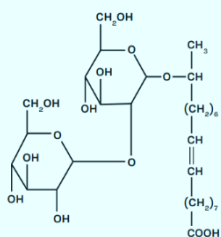


The PNEC represents the environmental concentration of a chemical at which adverse effects are unlikely to occur. It is derived from all available environmental data (both acute and chronic data points), and accounts for variations between laboratory test conditions and those of the natural environment, as well as inter- and intra-species differences. By focusing on the most sensitive species, the PNEC provides a more rounded picture of the impact of a chemical on the aquatic environment as opposed to comparing results from a single species.

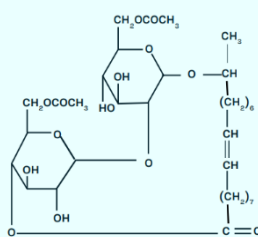
Structure

HoneySurf HF biosurfactant is an aqueous solution of sophorolipids. In general, Sophorolipids are mixtures of a lactone and acidic form. HoneySurf HF is predominantly comprised of the acidic molecule.

HF Acidic sophorolipid: Postbiotic, hydrating, emulsifier, cleansing.



LF Lactonic sophorolipid: Postbiotic, hydrating, emulsifier, cleansing.



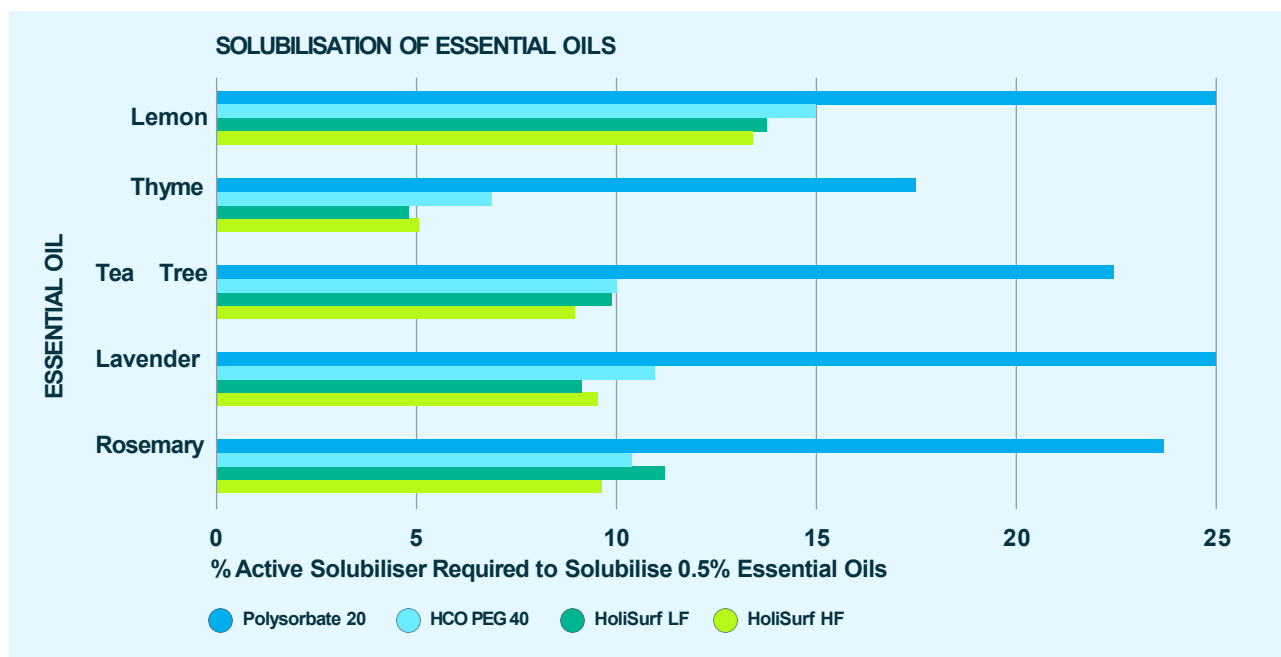


Technical Specification

- Form at 21°C: Liquid
- Appearance: Amber
- Gardner colour: <8.5
- Density (g/cm³): 1.0 - 1.2
- Viscosity at 21°C (SVM) mPas (cP): 300 - 2000
- SL content W%: 55-65
- pH: 6.0 - 9.0

Fragrance Solubilisation

HoneySurf HF is an effective fragrance solubiliser. The graph below depicts the volume of product required to solubilise 0.5% essential oil. HoneySurf HF was compared against market leading solubilisers:



HoneySurf HF was shown to be more effective at fragrance solubilization than Polysorbate 20 and HCO PEG-40.

Storage and packaging

HoneySurf HF biosurfactant should be stored in sealed containers between 10-30°C in a dry place out of direct sunlight. If material is exposed to cold, gently heat to 35°C and mix before use. Handle between 25°C –35 °C. Product can be heated higher if necessary; do not exceed 60°C for prolonged periods. Shipped without preservatives. Shelf life 2 years from date of manufacture.

HoliSurf HF is available in 20kg drums, 200kg drums and 1000kg IBCs. Samples are available on request.



Product Formulation Card

Glass Cleaner (#26-122)

#26-122

PRODUCT PROPERTIES

Benefits

- Powerful cleaning
- Simple manufacturing
- >99% natural origin

Appearance

Clear liquid

pH at 20°C

3.0 – 4.0

Manufacturing procedure

Solubilise the fragrance into HoneySurf HF.

Add phase B ingredients one by one to the vessel whilst stirring.

Phase	Ingredient	INCI / Name	Function	%WW
A	Fragrance	Parfum	Fragrance	0.10
	HoneySurf HF	Glycolipids	Biosurfactant	0.84
	De-ionised water	Aqua	Solvent	97.43
B	Lactic acid 80	Lactic acid	pH adjust	0.63
	Citric acid	Citric acid	pH adjust	0.50
	Phenoxyethanol	Phenoxyethanol	Preservative	0.50



Product Formulation Card

Car Shampoo (#26-117)

#26-117

PRODUCT PROPERTIES

Benefits

- Powerful cleaning
- Sustainable formulation
- 98% natural origin

Appearance

Clear liquid

Application instructions

Dilute to 1-5g/L and apply to vehicle

pH at 20°C

6.5 – 7.5.

Manufacturing procedure

Heat water in the vessel to 60°C and add lauryl glucoside. Stir until fully dissolved.

Add the rest of the ingredients one by one to the vessel while stirring.

Phase	Ingredient	INCI / Name	Function	%WW
A	De-ionised water	Aqua	Solvent	65.32
	Lauryl glucoside 50	Lauryl glucoside	Surfactant	15.00
	CAPB 30	Cocamidopropyl betaine	Surfactant	11.67
	HoneySurf HF	Glycolipids	Biosurfactant	6.67
	GLDA	Tetrasodium glutamate diacetate	Chelating agent	0.64
	Fragrance	Parfum	Fragrance	0.20
	Phenoxyethanol	Phenoxyethanol	Preservative	0.50

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Sections modified: Update to Endocrine Disruption to include additional lists checked