

HONEYSURF^{HF}

Bio-engineered by Holiferm.

HoneySurf HF Technical Data



Table of Contents

Information	03
.....	
General Information	03
.....	
Aquatic Toxicity	04
.....	
Structure	04
.....	
Technical Specification	05
.....	
Fragrance Solubilisation	05
.....	
Storage and Packaging	05
.....	
Product Formulation Card	06
Glass Cleaner (#24-0049)	06
Collagen-rich Toner (#24-0058)	07
.....	



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.

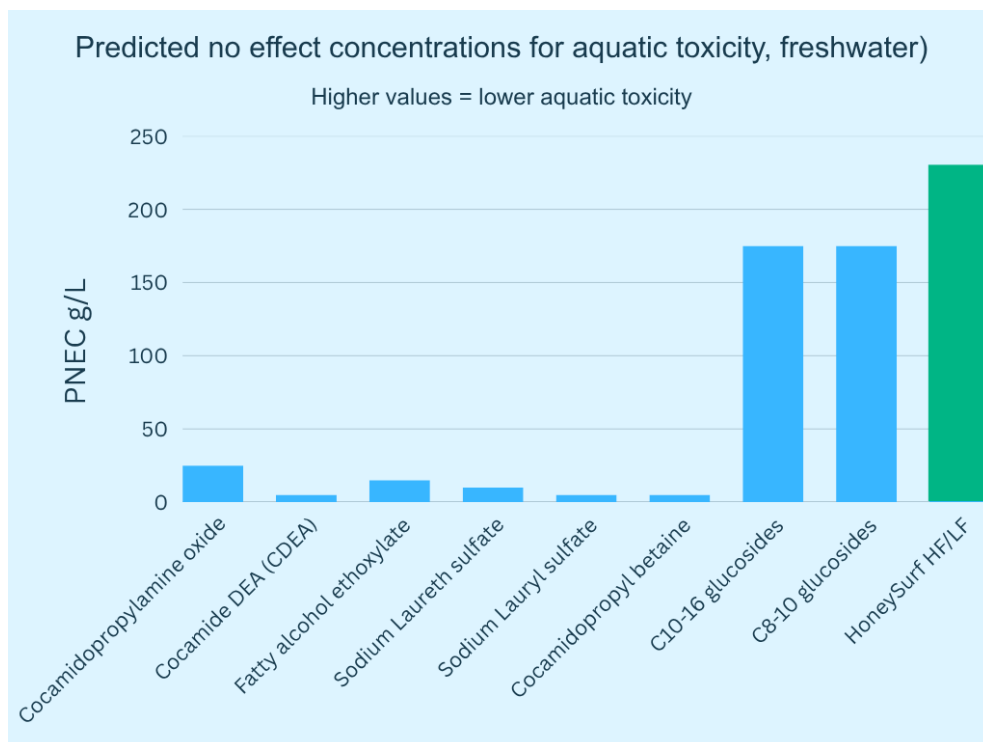
Properties

- 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

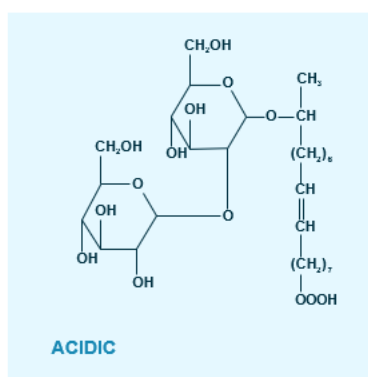
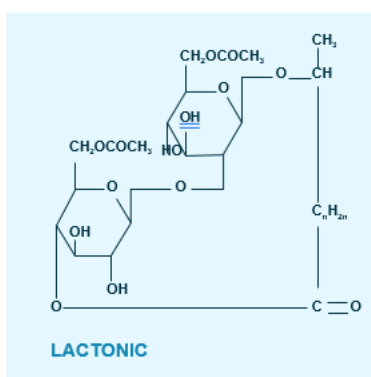
HoneySurf HF has superior ecotoxicological properties compared to other commonly used surfactants in the home care market. The graph below compares the Predicted No Effect Concentration (PNEC) of HoneySurf HF against other surfactants used in homecare applications:



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.



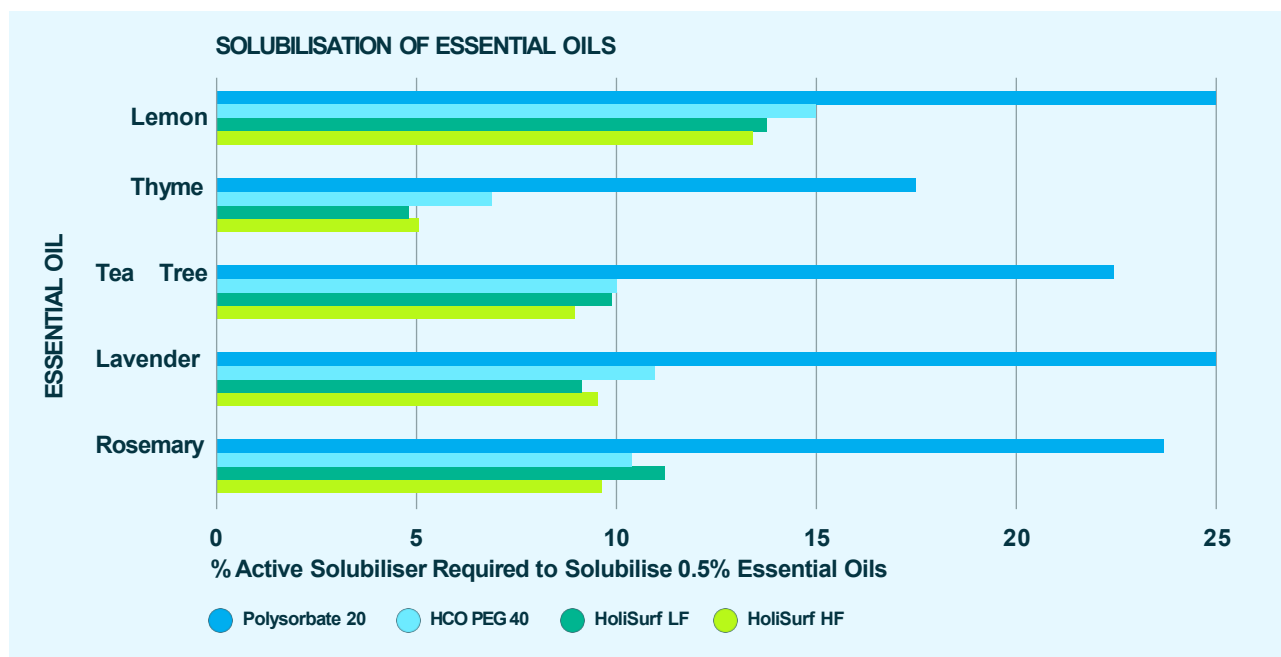


Technical Specification

- Form at 21°C: Liquid
- Appearance: Amber
- Gardner colour: <8.5
- Density (g/L): 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 20/25 kg drums, 200kg drums and 1000kg IBCs. Samples are available on request.



Product Formulation Card

Glass Cleaner (#24-0049)

Powerful cleaning | Simple Manufacturing | > 99% natural origin

Phase	Ingredient	INCI / Name	Function	%WW
A	Fragrance	Parfum	Fragrance	0.10
	HoneySurf HF	Glycolipid	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 properties

Appearance: Clear liquid

pH at 20°C: 3.0 - 4.0

Manufacturing procedure: Solubilize the essential oils into HoneySurf HF.

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



Product Formulation Card

Collagen-rich Toner (#24-0058)

Age-defying | Ultra mild | Hydrating | > 99% Natural Origin

Phase	Ingredient	INCI / Name	Function	%WW
A	HoneySurf HF	Glycolipids	Solubilisation, hydration and barrier boosting	3.00
	Ginger essential oil	Zingiber officinate root oil	Active	0.10
	Lavender essential oil	Lavandula angustifolia oil	Active	0.10
	NovaColl collagen	Water, glycerin, xanthan gum, shpolypeptide-47 (sodium benzoate, citric acid, potassium sorbate)	Active human identical collagen	2.00
	Pentylene glycol	Pentylene glycol	Humectant	5.00
B	Glycerin	Glycerin	Humectant	2.00
	Chamomile hydrosol	Chamomilla recutita flower water	Active	50.00
	De-ionised water	Aqua	Solvent	21.00
	Leuconostoc root ferment	Leuconostoc root ferment filtrate	Preservative/active	2.00
	AMT-icide	Lactobacillus and cocos nucifera (coconut) fruit extract	Preservative/active	2.00
	Aloe vera juice	Aloe barbadensis leaf juice	Active	12.00
	Potassium sorbate sodium benzoate	Potassium sorbate/sodium benzoate	Preservative	0.80
	Lactic acid	Lactic acid	pH adjuster	q.s.

Product properties

Appearance: Colourless clear sprayable liquid

pH at 20°C: 6.0 - 6.5

Manufacturing procedure: Combine phase A in a vessel until the essential oils have fully solubilised into HoneySurf HF. Next, add the humectants and the remaining ingredients. Adjust the pH, if necessary, by using lactic acid. The solution will be cloudy initially but turn clear after a few hours.

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