

SMART SURFACE

Universal Surface Cleaner

24-LS-ROF-56-15



- mild surfactants for the skin
- surfactants sourced exclusively from bio-based and/or fermentation-derived origins
- powerful against dirt
- as effective as top brands, on a natural basis

PHASE	RAW MATERIAL	CHEMICAL NAME	SUPPLIER	FUNCTION	%
A	Water	Aqua		solvent	87.70
	Dissolvine® GL Premium	Tetrasodium Glutamate Diacetate	Nouryon	chelating agent	3.00
	AG® 6210	Alkyl Polyglucoside	Nouryon	surfactant	4.00
	ICTEOL K-50E	Potassium Oleate	Kao	surfactant	1.00
	HoneySurf® HF	Glycolipids	Holiferm	surfactant / solubilizer	3.00
	Comp.41.1207 Eternal Pearls	Proprietary mixture of fragrance ingredients	Lothar Streeck	fragrance	0.30
	Sodium Carbonate	Sodium Carbonate		buffer	q.s.
	BIOBAN® PH 100 Antimicrobial	Phenoxyethanol	Lanxess	preservative	1.00
	Unicert Blue 05601-J	CI 42090	Sensient	colour	q.s.
					100.00

MANUFACTURING PROCEDURE

1. Charge the mixing vessel with the specified amount of de-ionized water and start agitation at \approx 300 rpm.
2. With the mixer running, add each raw material in the exact order shown below, allowing complete dissolution before the next addition:
 - **Dissolvine® GL Premium**
 - **AG® 6210**
 - **HoneySurf® HF**
 - **ICTEOL K-50 E**
 - **BIOBAN® PH 100 Antimicrobial**
 - **Comp.41.1207 Eternal Pearls**
3. Prepare a 1 % premix of Unicert Blue 05601-J and add it dropwise under stirring until the required shade is achieved
4. Prepare a 10–20 % sodium carbonate solution and add dropwise while monitoring pH; stop the addition at max. pH 9.7

INSTRUCTIONS FOR USE

For light dirt, dilute one full cap in 5 l of water. For heavy dirt, use the cleaner undiluted.

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BIESTERFELD PRODUCTS

Dissolvine® GL Premium

Readily biodegradable chelating agent derived from natural and renewable raw materials, offering excellent sequestering values for various metal ions. Non-hazardous classification.

AG® 6210

Powerful, biodegradable surfactant that provides excellent cleaning performance, high foam stability and compatibility with various cleaning agents, while being mild to the skin and environmentally friendly.

ICTEOL K50-E

Potassium soap of vegetable origin that helps to control the foam in cleaning formulations.

HoneySurf® HF

Biosurfactant made by fermentation of sugar and rapeseed oil with a yeast naturally found in honey. Particularly suited for the formulation of eco-friendly hard surface cleaners, glass cleaners, liquid dishwashing detergents or laundry liquids, with an extremely low toxicological profile and suitable for EU Ecolabel formulations.

Comp.41.1207 Eternal Pearls

An exotic floral top note elegantly blended with rich leather and warm woody undertones for a bold, long-lasting fragrance.