

Technical Information

SURFYNOL® 104A Surfactant

Nonionic Dynamic Wetting Agent and Molecular Defoamer

Typical properties

Appearance	Clear, pale yellow liquid
Activity	50%
Solvent	2-Ethyl-1-Hexanol
Specific Gravity at 21 °C	0,87 g/cm ³
Viscosity at 20 °C	100 mPa.s
Flash Point	>73 °C
Pour Point	-19 °C

These are typical properties only and do not represent sales or manufacturing specifications.

Applications

- Adhesives
- Flexible food packaging adhesives
- Pressure sensitive adhesives
- Pigment synthesis and grinding/dispersing
- Dye processing
- Metalworking fluids

Description

Surfynol® 104A surfactant is a Gemini wetting agent and molecular defoamer formulated to provide a unique combination of performance benefits. Surfynol® 104A surfactant unique chemical structure allows this product to provide multifunctional properties such as surface tension reduction, foam control, and viscosity stabilization. The hydrophobic nature of Surfynol® 104A surfactant can result in significantly reduced water sensitivity compared to either conventional ethoxylated or anionic surfactants.

Due to its multifunctional properties, Surfynol® 104A surfactant can provide performance benefits in many waterborne applications such as adhesives, pigment manufacture and dispersions. Surfynol® 104A surfactant contains no added alkylphenol ethoxylates (APEs), silicones or fluorosurfactants.

Recommended Usage

Between 0.10 and 1.0% of total formulation weight is recommended.

Advantages

- Low dynamic surface tension
- Ability to wet contaminated substrates
- Non-micelle forming
- Stability between pH 3-10
- Prevents surface defect problems such as fisheyes, crawling, and cratering on low-energy substrates
- Reduces microfoam
- Reduces water sensitivity
- Defoams, de-airetrains, and improves flow
- Enhances leaf and soil penetration while improving bloom and stability in agricultural chemical formulations.
- Lubricates, wets and prevents smut formation while eliminating hot spots in metalworking fluids

Storage and Handling

Keep containers tightly closed in a dry, cool and well-ventilated place. Product is freeze-thaw stable; if it phase separates or freezes at colder temperatures, warm container to 40 °C and mix thoroughly before use.

Please refer to Material Safety Data Sheet.

Registration status

The components of Surfynol® 104A surfactant are listed in the following chemical inventories:

EINECS, TSCA, DSL, TCSI, AICS, ENCS, TCCL, PICCS, IECS, NZIOC

Shelf-Life

60 months from the date of manufacture.

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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