

Technical Information

SURFYNOL® AS 5000

Nonionic Dynamic Wetting Agent and Molecular Defoamer

Typical properties

Appearance	Clear, pale yellow liquid
Activity	50%
Solvent	Ethylene glycol
Specific Gravity at 21 °C	1.0
Viscosity at 20 °C	100 mPa.s
Flash Point	111 °C
Pour Point	-17 °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

Description

Surfynol® AS 5000 is a Gemini wetting agent and molecular defoamer formulated to provide a unique combination of performance benefits. Surfynol® AS 5000 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® AS 5000 can result in significantly reduced water sensitivity compared to either conventional ethoxylated or anionic surfactants.

Due to its multifunctional properties, Surfynol® AS 5000 can provide performance benefits in many waterborne applications such as adhesives, pigment manufacture and dispersions. Surfynol® AS 5000 contains no added alkylphenol ethoxylates (APEs), silicones or fluorosurfactants.

Recommended Usage

Between 0.10 and 1.5% 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

Storage and Handling

Surfynol® AS 5000 should be stored under dry and clean conditions between -10 °C and 50 °C.

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® AS 5000 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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