

Technical Information

SURFYNOL® AD01 Surfactant

Nonionic Low-foam Dynamic Wetting Agent and Molecular Defoamer

Description

Surfynol® AD01 surfactant is a liquid, nonionic wetting agent, molecular defoamer, and coalescing surfactant based on Gemini surfactant technology. Because this surfactant includes two hydrophiles and at least two hydrophobes within a single molecule, Gemini surfactants are more surface-active than their single hydrophile-single hydrophobe analogs. Surfynol® AD01 surfactant is a proprietary surface active agent that can provide antifoaming, defoaming, and dynamic wetting in waterborne applications.

Recommended Usage

Between 0.1 and 1.0% of total formulation weight is recommended.

Advantages

- Fast knock-down defoaming and outstanding foam control
- Excellent dynamic wetting
- Low-odor, nonionic surfactant
- Can reduce minimum film formation temperature
- Non-micellar, no cloud point
- Chemical stability in most applications from pH 3 to 13
- Contains no added solvents or APES

Typical properties

Appearance	Clear, pale yellow liquid
Specific Gravity at 20 °C	0.90
Viscosity at 25 °C	2800 mPa.s
Flash Point	>110 °C
Pour Point	12 °C
Boiling Point	278
Vapor Pressure at 20 °C (kPa)	1.94x10 ⁻⁵
Activity	100 %

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

Applications

- Radiation-cured (UV/EB) systems
- Automotive OEM and refinish coatings
- OEM, DIY and UV wood coatings
- Industrial maintenance coatings
- Metal and paper coatings
- Printing inks
- Overprint varnishes
- Fountain solutions
- Adhesives
- Dye and pigment synthesis
- Pigment grinding
- Oil and gas processing
- Semiconductor cleaning and processing
- Metalworking fluids
- Concrete and drymix mortars

Storage and Handling

Surfynol® AD01 surfactant 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.

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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For Technical Information, Support and Samples:

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