

Technical Information

SURFYNOL® 2502 Surfactant

Nonionic Low-foam Dynamic Wetting Agent

Description

Surfynol® 2502 surfactant is a low-foam dynamic wetting agent based on patented Gemini surfactant technology. It has been designed to deliver excellent wetting and high water solubility while adding no foam to aqueous systems.

As a result, Surfynol® 2502 surfactant can provide specific performance benefits in a broad range of water-based systems, including numerous types of coatings, inks, adhesives and industrial specialty applications. It is also easy to incorporate and is stable in hard water. As a 100% active liquid, Surfynol® 2502 surfactant contains no added alkylphenol ethoxylates (APEs) or hazardous air pollutants (HAPs).

Recommended Usage

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

Advantages

- Low dynamic surface tension
- Foam-free dynamic wetting with improved solubility
- Contributes no VOCs per European and US2 regulations
- Contains no added APEs or HAPs
- No negative effect on water resistance
- No phase separation
- Wide dampening window (fountain solutions)
- Improved ink emulsification and gloss (fountain solutions)
- Improved fines removal in metalworking fluids
- Improved printability with minimal defects (inks)

Typical properties

Appearance	Clear, pale yellow liquid
Specific Gravity at 21 °C	1.0
Viscosity at 25 °C	110 mPa.s
Flash Point	174 °C
Pour Point	-41 °C
VOC (US EPA Method 24)*	0

* VOCs, as defined by the EPA in 40 CFR 51.100(s). Surfynol® 2502 surfactant was found to contribute no VOC under EPA Method 24 testing conditions when evaluated at 1.0 wt.% in a zero-VOC coating formulation.

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

Applications

- Fountain solutions
- Metalworking fluids
- Packaging inks
- Wood coatings
- Other waterborne coatings, inks and adhesives
- Industrial specialties
- Concrete and drymix mortars

Storage and Handling

Surfynol® 2502 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:

Americas: prodinfo@evonik.com

Asia: picasia@evonik.com

EMEA: apcse@evonik.com

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Evonik Nutrition & Care GmbH
Goldschmidtstraße 100
45127 Essen, Germany
Phone Europe +49 201 173 2665
Phone Asia +86 21 61191 125
Phone Americas +1 804 727 0700
interface-performance@evonik.com
www.evonik.com/Interface-performance

