

Nonionic Molecular Defoamer SURFADOL® 518

SURFADOL® 518 is a very compatible molecular defoamer based on Gemini surfactant technology. Free of silicone and silica. Offers additional dynamic wetting properties.

Composition

18% 2,5,8,11-Tetramethyldodec-6-yne-5,8-diol in dipropylene glycol and ethylene glycol
CAS No: 68227-33-8

Typical properties

Chemical family	Acetylenic diol; Nonionic Defoamer; Gemini surfactant
Appearance	Light yellow liquid
Density at 25 °C, g/cm ³	1.03
Solubility in water	Slightly soluble
Suggested use level	0.1% - 1.5% of total formulation weight

COA specifications

Test Item	Standard
Appearance	Light yellow liquid
APHA Color (Pt-Co)	≤350
Density at 25 °C, g/cm ³	1.000-1.100

Special properties

- Nonionic acetylenic diol defoamer
- Suitable for water-based systems
- Provides additional dynamic wetting properties
- Effectiveness against macro- and micro-foam in combination with high compatibility
- highly recommended in combination with classical silicone-based defoamers
- Silicone-free, APEO free, non-toxic

Examples of application

- water-based printing inks
- metalworking fluids
- semiconductor cleaning and processing
- fountain solutions
- waterborne coatings
- waterborne coatings
- lamination adhesives
- dye and pigment synthesis
- concrete and mortars

Similar Defoamers

Apart from SURFADOL® 518, SURFADOL® 510 (CAS#68227-33-8) series defoamers include the following liquid preparations.

SURFADOL® defoamer	Physical form	Composition
SURFADOL® 532	Light yellow liquid	32% wt 510 in dipropylene glycol
SURFADOL® 550PG	Light yellow liquid	50% wt 510 in propylene glycol

SURFADOL® 550BC	Light yellow liquid	50% wt 510 in 2-butoxyethanol
SURFADOL® 550D	Light yellow liquid	50% wt 510 in 2-ethylhexanol
SURFADOL® 550PM	Light yellow liquid	50% wt 510 in propylene glycol methyl ether

Processing instructions

- Addition to the coating as supplied or as a predilution is possible.
- Can be introduced in the grind and let-down stage.

Package and storage

The standard package for SURFADOL® 518 is 180kg drums, 4 drums/pallet.
The product is also available in 950kg IBCs and 20kg pails.

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.

When stored in an original unopened packaging, the product has a shelf life of 48 months from the date of manufacture.