

NOVEL® 6-6 Ethoxylate

Technical Data Sheet

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Description

Sasol North America Inc.'s NOVEL® 6-6 Alcohol Ethoxylate is a biodegradable, nonionic surfactant derived from linear primary ALFOL® 6 Alcohol. This ethoxylate is made using Sasol North America Inc.'s patented NOVEL® catalyst technology, which yields products with lower free alcohol and PEG levels when compared to the traditional base-catalyzed methods. It is essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_4\text{CH}_2(\text{OCH}_2\text{CH}_2)_6\text{OH}$

NOVEL® 6-6 Ethoxylate is a clear, colorless liquid that is soluble in polar solvents such as water, ethanol, isopropanol, and glycol ethers.

Applications

NOVEL® 6-6 Ethoxylate can be used in a wide variety of applications. It can be used as a high quality, biodegradable emulsifier, foaming agent, and/or cleaner in a wide variety of household, as well as, industrial cleaning products. It can also be used in such industrial applications as textile and leather processing, plastics additives, paints and coatings, pulp and paper processing, metal cleaners, car wash products, agricultural adjuvants, mining frothers, and circuit board cleaners.

Properties

Typical physical properties are listed in the table to the right. Actual properties may vary from lot to lot.

Contact Information

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Typical Properties	NOVEL® 6-6
Average Molecular Weight	355 – 379
Color, APHA	< 50
Hydroxyl Number	148 – 158
Water, Wt.%	< 0.1
Glycol, Wt.%	< 1.5
Free Alcohol, Wt.%	< 1
Density, g/mL @ 20°C	1.021
Flash Point, °C (°F)	108 (226)
Cloud Point, °C (°F) 1% in 10% NaCl solution	56 (133)
Melting Point, °C (°F)	-5 – 0.5 (23 – 33)
Viscosity, cSt @ 40°C	14.7
pH	6 – 8
Vapor Pressure, psi @ 25°C	0.17
Vapor Density, Air = 1	12 – 13
Avg. EO Content, moles	6
Avg. EO Content, Wt.%	72.1
Free EO, ppm	< 1
HLB, calculated	14.4

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For detailed safety and handling information regarding these products, please refer to the respective Sasol North America Material Safety Data Sheet.

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