

NOVEL® 1412-11 Ethoxylate

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Technical Data Sheet

Description

Sasol North America Inc.'s NOVEL® 1412-11 Alcohol Ethoxylate is a biodegradable, nonionic surfactant derived from linear primary ALFOL® 1412 Alcohol. This ethoxylate is made using Sasol North America Inc.'s patented NOVEL® catalyst technology, which yields products with lower free alcohol, PEG levels, and melting ranges when compared to the traditional base-catalyzed methods. It is essentially 100% active unless diluted with water and has the following structural formula: $CH_3(CH_2)_x(OCH_2CH_2)_{11}OH$ where 'x' varies between 11 and 13. NOVEL® 1412-11 Ethoxylate is a white solid at room temperature and is water soluble.

Applications

NOVEL® 1412-11 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, pulp and paper processing, metal cleaners, car wash products, agricultural adjuvants, and circuit board cleaners.

Properties

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

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Typical Properties	NOVEL® 1412-11
Average Molecular Wt.	689
Color, APHA	< 80
Hydroxyl Number	74 – 89
Water, Wt %	< 0.1
Glycol, Wt %	< 1.5
Free Alcohol, Wt %	< 0.3
Density, g/mL @ 50°C	0.997
Cloud Point, 1% in 5%NaCl solution, °C (°F)	73 – 83 (163 – 181)
Melting Range, °C (°F)	28 – 31 (82 – 88)
Viscosity, cSt @ 38°C	17
pH, 1% in IPA/Water	6 – 8
Vapor Density, Air = 1	23.8
Avg. EO Content, moles	11
Avg. EO Content, Wt %	70.3
Free EO, ppm	< 1
Solubility in Water, g/L	Soluble
HLB, calculated	14.1

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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.

10/13/11