

NOVEL® 1012-5 Ethoxylate

Technical Data Sheet

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Description

Sasol North America Inc.'s NOVEL® 1012-5 Alcohol Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL® 1012 Alcohol. This 5-mole ethoxylate is made using Sasol North America Inc.'s patented NOVEL® catalyst technology. This yields narrow range or "peaked" ethoxylates that have lower free alcohol, PEG levels, and melting ranges when compared to the traditional base-catalyzed ethoxylates. It is essentially 100% active and has the following structural formula: $CH_3(CH_2)_xCH_2(OCH_2CH_2)_5OH$ where 'x' varies between 8 and 10.

Applications

NOVEL® 1012-5 Ethoxylate can be used in a wide variety of applications. It can be used as a high quality, biodegradable emulsifier 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, and circuit board cleaners.

Properties

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

Contact Information

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Typical Properties	NOVEL® 1012-5
Average Molecular Weight	384
Color, APHA	< 50
Hydroxyl Number	140 – 150
Water, Wt %	< 0.1
Glycol, Wt %	< 1.5
Free Alcohol, Wt %	< 1.5
Density, g/mL @ 20°C	0.973
Flash Point °C (°F)	160 (320)
Cloud Point, 1% in BDG, °C (°F)	73 (163)
Melting Range, °C	-11.8 - -8.43
Boiling Range, °C	181 - 338
Viscosity, cSt @ 40°C	16.61
pH, 1% in IPA/Water	6 – 8
Vapor Pressure, mmHg @ 38°C	< 0.1
Vapor Density, Air = 1	14 – 15
Avg. EO Content, moles	5
Avg. EO Content, Wt %	57.3
Free EO, PPM	< 1
Solubility in Water	Soluble
HLB, calculated	11.5

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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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