NOVEL TDA-5 Ethoxylate

Technical Data Sheet

Description

Sasol Chemicals NOVEL TDA-5 Ethoxylate is a biodegradable nonionic derived from isotridecyl alcohol and ethoxylated to an average of five moles of ethylene oxide. This ethoxylate is made using Sasol Chemicals patented NOVEL technology which yields narrow range products with lower free alcohol, PEG levels and melting ranges when compared to the traditional base-catalyzed methods. NOVEL TDA-5 Ethoxylate is liquid at room temperature and essentially 100% active.

Applications

NOVEL TDA-5 Ethoxylate may be used in a wide array of applications including as a high quality, biodegradable emulsifier, foaming agent and/or cleaner in a variety of household and industrial cleaning products. It may also be used in such industrial applications as textile and leather processing, plastics additives, paints and coatings, pulp and paper processing, metal cleaners and agricultural adjuvants.

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 TDA-5
Avg. molecular weight, g/mol	421
Avg. EO content, wt. %	52
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	128 – 138
Water, wt. %	0.1 max.
Glycol, wt. %	1 max.
Free alcohol, wt. %	5 max.
Density, g/mL @ 40°C / 104°F	0.950
Flash point, °C (°F)	> 150 (302)
Cloud point, 10% in BDG, °C (°F)	64 (147)
Pour Point, °C (°F)	-18 (-1)
Viscosity, cSt @ 40°C / 104°F	23
pH, 1% in IPA/water	6 – 8
Color, APHA, mg Pt/L	50 max.
HLB, calculated	10.4
Wettability on cotton, seconds	51
Critical Micelle Concentration, mg/L	34.2
SFT, mN/m	27.3
Avg. Contact Angle on PTFE	36.39
Solubility in water, 2 wt. %	Soluble

Mix samples well before use.

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