NOVEL TDA-150 Ethoxylate

Technical Data Sheet

Description

Sasol Chemicals NOVEL TDA-150 Ethoxylate is a biodegradable nonionic derived from isotridecyl alcohol and ethoxylated to an average of 150 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-150 Ethoxylate is solid at room temperature and essentially 100% active.

Applications

NOVEL TDA-150 Ethoxylate may be used in a wide array of applications including detergents, personal care, latex resin production and oil & gas recovery. This ethoxylate functions primarily as a high quality, biodegradable emulsifier of heavy oils and a solid, water soluble binder (carrier) for active organic ingredients.

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-150
Avg. molecular weight, g/mol	5615 – 7375
Avg. EO content, wt. %	97
Free EO, ppm	2 max.
Hydroxyl number, mg KOH/g	7 – 10
Water, wt. %	0.1 max.
Glycol, wt. %	12 max.
Free alcohol, wt. %	0.5 max.
Density, g/mL @ 70°C / 158°F	1.07
Flash point, °C (°F)	>152 (257)
Cloud point, 1% in salt water, °C (°F)	68 – 72 (154 – 162)
Melting range, °C (°F)	57 – 62 (135 – 144)
Viscosity, cSt @ 70°C / 158°F	600 – 740
pH, 1% in IPA/water	7 – 9.5
Color, APHA, mg Pt/L	150 max.
HLB, calculated	19.4
Wettability on cotton, seconds	--
Critical Micelle Concentration, mg/L	--
SFT, mN/m	--
Average Contact Angle on PTFE	--
Solubility in Water, 2 wt. %	Soluble

Mix samples well before use.

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