

# NOVEL® 810-4.5 Ethoxylate

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## Technical Data Sheet

### Description

Sasol North America Inc.'s NOVEL® 810-4.5 Alcohol Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL® 610 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:  $\text{CH}_3(\text{CH}_2)_x\text{CH}_2(\text{OCH}_2\text{CH}_2)_{4.5}\text{OH}$  where 'x' varies between 6 and 8.

NOVEL® 810-4.5 Ethoxylate is a clear to slightly hazy liquid. Because of its degree of ethoxylation, it is soluble in polar solvents such as water, ethanol, isopropanol and glycol ethers.

### Applications

NOVEL® 810-4.5 Ethoxylate can be used in a wide variety of applications including the following:

- Sulfation feedstock used as a foaming agent in wallboard/sheetrock for commercial and residential construction
- Oilfield
- Hard surface cleaning applications

### Properties

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

Typical Properties	NOVEL® 810-4.5
Average Molecular Wt.	343
Color, APHA	< 50
Hydroxyl Number	154 – 164
Water, Wt %	< 0.1
Glycol, Wt %	< 2
Free Alcohol, wt%	< 8
Density, g/mL @ 20°C	0.976
Flash Point °C (°F)	127 (261)
Cloud Point, 1% in H <sub>2</sub> O, °C (°F)	34 – 42 (93 – 108)
Melting Range, °C (°F)	-16.9 - -9.7
Boiling Point, °C (°F)	~211 (412)
Viscosity, cSt @ 50°C	10.03
pH, 1% in water	6 – 8
Vapor Density, Air = 1	11.8
Avg. EO Content, moles	4.5
Avg. EO Content, Wt. %	58
Free EO, PPM	< 1
Solubility in Water	Miscible
HLB, calculated	11.6

### Contact Information

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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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