



# NEODOL™ 45-7

## TECHNICAL DATASHEET

Primary Alcohol Ethoxylate

Updated: November 2020  
SICC Product Code: V2459

### Description:

- NEODOL 45-7 is a blend of C14 and C15 high purity, lightly branched, primary alcohols with an average of approximately 7 moles of ethylene oxide per mole of alcohol. NEODOL 45-7 alcohol ethoxylate biodegrades fast, as measured in the OECD 301 test.

Typical Chemical Properties <sup>a</sup>	Property	Unit	Value	Method
	Hydroxyl Number	mg KOH/g	98 - 108	SMS 1848
	Molecular Mass	g/mol	519 - 573	SMS 1848
	Color, Pt-Co		< 50	ASTM D1209
	Water	%m/m	< 0.1	ASTM E1064
	Ash	%m/m	< 0.2	ASTM D482
	Polyethylene Glycol	%m/m	< 2	SMS 1528
	Appearance		LCSH <sup>b</sup>	Visual
	Acid Number	mg KOH/g	0.05 - 0.20	SMS 2912
	EO/Alcohol Mole Ratio		6.8 - 8.0	SMS 1848
	Residual EO	mg/kg	< 6	SMS 2957
	1,4 - Dioxane	mg/kg	< 1 <sup>c</sup>	SCG 893

a: An official sales specification is available from your local Shell Chemicals representative.

b: Liquid, Clear to Slightly Hazy

c: Method Detection Limit 0.3 mg/kg

d: Typical Value as a 1% solution in Water

Typical Physical Properties	Property	Unit	Value	Method
	Density @ 40°C	kg/l	0.969	ASTM D4052
	Cloud Point	°C	46 <sup>d</sup>	SMS 1664
	Flashpoint	°C	190	ASTM D56/D92/D93
	Pour Point	°C	24	ASTM D5949/D97
	HLB	Number	11.8	Griffin's Method (1954)
	Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	33	ASTM D445

### Storage and Handling

Advice on the storage and handling of NEODOL alcohol ethoxylates can be found in the Safety Data Sheet on our website at [www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets](http://www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets) or by contacting your local Shell Chemicals Representative.

### Hazard Identification

NEODOL alcohol ethoxylates exhibit low oral, skin and respiratory toxicity. Generally, these alcohols are slightly to moderately irritating to the eyes and skin. Prolonged or repeated skin contact with undiluted alcohols may lead to defatting of the skin and ultimately cause dermatitis.

### Emergency Helpline

For emergency telephone numbers refer to the Safety Data Sheet relevant for your company's country and language.

### Shell Warranties

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