



Shell Chemicals

Cargo Handling Sheet

Neodol 45

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Revision 11

Cargo Handling Sheets are for the use of vessels chartered by Shell Chemicals

Product Details

Product Name: Neodol 45
Shipping Name: Alcohols (C13+)
Chemical Family: Alcohols, C14 – C15
Product Code: V2456

SDS: <http://www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets.html>

Physical Properties

Density: 823 kg/m³ (40 °C / 104 °F)
Dynamic Viscosity: Solid (20 °C / 68 °F)
50 mPa.s (35 °C / 95 °F)
14 mPas (40 °C / 104 °F)
Vapor Pressure: < 0.05 hPa (25 °C / 77 °F)
Boiling Point: 289 °C / 552 °F
Melting Point: 29 - 36 °C / 84 - 97 °F
Pour Point: 29 °C / 84 °F
Flash Point: 157 °C / 315 °F
Appearance: Waxy solid at 20 °C; white colour; mild odour

Note 1: Physical Properties are for reference only and valid as of date of this revision; see loading terminal for specific properties.

Transhipment

Prior to arranging transhipment Charterer must agree to Owner's proposed plan. When arranged by the Owner, Owner must ensure that all transhipment vessels comply with the requirements of this cargo handling sheet.

Marpol Details

Marpol Annex: II
IMO Ship Type: 2

Inland Barge:	Double Hull
IMO Pollution Category:	Y
IBC 16.2.6:	No
IBC 16.2.9:	Yes
Pre-Wash Required:	No pre-wash required when discharged in accordance with CHS
Compatibility Group:	USCG compatibility group 20, not compatible with group 12 Isocyanates.

Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading:	Yes, PQ requirement; Max 1000 ppm (0.1%) O ₂ , 99.90% N ₂ Purity, see Notes below
N2 Blanket Required:	Yes, PQ requirement; Max 1000 ppm (0.1%) O ₂ , 99.90% N ₂ Purity, see Notes below
Adjacent Space Purge:	No
Loading Temperature Range:	41 – 55 °C / 106 – 131 °F
Transit Temperature Range:	36 – 45 °C / 97– 113 °F
Discharge Temperature Range:	46 – 55 °C / 115 – 131 °F
Maximum Heating Coil Temperature:	< 100 °C / 212 °F
Adjacent Maximum Cargo Temperature:	55 °C / 131 °F

Note 1: If Nitrogen blanket is in place and Carrier chooses to tranship, carrier must reapply nitrogen blanket on the cargo, both on the discharging and receiving vessel, at their time, risk, and expense.

Note 2: PQ = Product Quality

Note 3: N₂ Blanket Guidance:

- a. O₂ level in tanks: Max 1000 ppm (0.1%) O₂; See Regional Requirements
- b. Vessel to maintain a constant nitrogen overpressure of 20 millibars or more during the voyage
- c. Vessel to keep a daily N₂ log of each tank:
 1. Tank pressure
 2. O₂ level
 3. Tank Temperature

Log is to be presented to receiver at time of discharge and a copy sent to Charterers.

Regional Requirements

Note 1: Short voyages in Europe: may only require blanketing, however:

- If the short voyage is part of an international voyage, the short voyage must also have the tanks purged.

Note 2: Short Voyages in Japan (3 days or less): WWT not required; Pre-load purging or padding not required.

Tank Acceptance Requirements

All nominated shipboard cargo handling systems are to be presented clean (residual free), dry, odor free, rust free, with good gaskets, fit to load this cargo.

Maintenance of heating coils is to be verified in the ship's log. If product is to be heated, heating coils are to be confirmed leak free. If product is not heated, heating coils are to be blown clear and dried with N2 and blanked off.

Stainless Steel or Coated Tanks: Stainless preferred. Highbaked phenolic and modified phenolic coatings may be accepted. Carrier to verify suitability of coating for products

Banned Prior Cargo: Styrene or any other product which can polymerize. Phosphoric acid, Sulphuric acid, and Caustic.

Wall Wash Required: Yes; all conducted with Methanol except PH test, which uses DI water

Coated Tanks: WWT conducted by cargo surveyor.

Stainless Steel Tanks: verification of shipboard WWT may be accepted if below specs are met. (Send WWT Verification to the responsible Shell Chemicals charterer and present to cargo surveyor and loading master at loading terminal.)

Wall Wash Test:	Specification	Standard
Hydrocarbons	= Pass	ASTM D1722
Chlorides	≤ 3.0 ppm	IMPCA 002-98
Colour Test	≤ 10 Pt/Co Max	ASTM D1209

Additional WWT for Coated Tanks if Prior Cargo is:

Prior Cargo	Wall Wash Test:	Specification	Standard
Acrylate	PPT	> 30 minutes	ASTM D1363
Oils, Waxes, Veg Oils, Fame	NVM	100 ppm	ASTM D1353
Acids, Alkalis	PH Test	6 – 8	ASTM E70

Link to: [WWT Verification Form](#)

Safety Information and Incident Reporting

Safety Information:

For more detailed information, refer to the SDS or e-SDS for reportable spill/release quantities whether in the water, air or ground.

Incident Reporting:

International Registered Vessels: If an incident occurs call Shell International Trading and Shipping in London on +442079347777.

Jones Act Vessels: call the Shell 24 hr. incident number at +17132412532. The USA National Response Center telephone number is +18004248802.

For additional marine cargo handling advice or information, contact Captain Stephen Boudreaux at +18323376982 or Capt. Ben van Bommel at +31104415992.



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