Shell

Cargo Handling Sheet

Neodol 911

Document Date: 21 July 2022
Revision 10

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

Product Details

Product Name:	Neodol 911
IMO Product Name:	Alcohols (C8–C11), primary, linear and essentially linear
Chemical Family:	Alcohols
Product Code:	X3085

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

Physical Properties

Density:	830 kg/m3 (20 °C / 68 °F)
Dynamic Viscosity:	14.11 mPas (20 °C / 68 °F)
Vapor Pressure:	< 5 Pa (25 °C / 77 °F)
Boiling Point:	213 - 245 °C / 415 - 473 °F
Pour Point:	-12 °C / 10 °F
Flash Point:	109 °C / 228 °F
Appearance:	Colourless Liquid at 20 °C

Note 1: Physical Properties are for reference only and valid as of date of this revision; see loading terminal for specific properties.
Note 2: Hazard Identification: Toxic (IBC Code), however Not classified as a physical hazard or health hazard under GHS; See SDS for full list of hazards and precautions.

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:	Yes
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 20 Isocyanates.

Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading:	Yes, Product Quality Requirement; Max 1000 ppm (0.1%) O2, see Notes and Regional requirements below
N2 Blanket Required:	Yes, Product Quality Requirement; Max 1000 ppm (0.1%) O2, see Notes and Regional requirements below
Adjacent Space Purge:	No
Loading Temperature Range:	Ambient – 40 °C / 104 °F
Transit Temperature Range:	Ambient – 40 °C / 104 °F
Unloading Temperature Range:	Ambient – 40 °C / 104 °F (see Regional Requirements)
Maximum Heating Coil Temperature:	Blanked off
Maximum Adjacent Temperature:	40 °C / 104 °F

Note 1: If vessel is required to inert tanks, then only N2 will be accepted as an inerting medium.
Note 2: 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 ship, at their time, risk, and expense.
Note 3: N2 Blanket Guidance:
a. O2 level in tanks: See Regional Requirements
b. Vessel to maintain a constant nitrogen overpressure of 20 millibars or more during the voyage.
c. **DAILY LOG**: During the voyage the vessel shall record the following at least once a day and the record shall be sent to the Shell Charterers/Planners after the completion of unloading.

1. Tank pressure 2. O_2 level 3. Tank Temperature

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: Discharge temperature is ambient; however, heating to 16 – 21 °C is acceptable to improve pumpability in cold climates, if the temperature range is maintained during the voyage.
Note3: Short Voyages in Japan (3 days or less): Pre-load purging or padding is 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 Steel
Banned Prior Cargo:	Styrene or any other product which can polymerize; Phosphoric acid, Sulphuric acid, and Caustic
Wall Wash Required:	Yes

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

Link to: WWT Verification Form

Safety Information and Incident Reporting

Safety Information: Refer the SDS (Safety Data Sheet) or e-SDS.

Incident Reporting: All incidents should be reported in accordance with regulations and charter party requirements.

For additional marine cargo handling advice or information, contact the regional Chemical Marine Technical Advisor.

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