Shell Chemicals

Cargo Handling Sheet

Neodene 1416

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Revision 5

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

Product Details

Product Name:	NEODENE 1416 Alpha Olefin
Shipping Name:	Olefins (C13+, all isomers)
Chemical Family:	Alpha C14-C16 olefin blend
Product Code:	V1161, V1321

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

Physical Properties

Density:	ca. 778 kg/m3 (20 °C / 68 °F)
Dynamic Viscosity:	2.40 mPas (20 °C / 68 °F)
Vapor Pressure:	6.9 Pa (38 °C / 100 °F)
Boiling Point:	238 - 289 °C / 460 - 552 °F
Melting Point:	-9 °C / 16 °F
Flash Point:	110 °C / 230 °F
Appearance:	Clear, colourless liquid at room temperature; mild hydrocarbon odour

Note 1: Physical Properties are for reference only and valid as of date of this revision; see loading terminal for specific properties.
Note 2: This product is a static accumulator.

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 Barges:	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 30

Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading:	No
N2 Blanket Required:	See notes below and Regional Requirements; PQ Requirement
Adjacent Space Purge:	No
Loading Temperature Range:	Ambient – 40 °C / 104 °F
Transit Temperature Range:	Ambient to Loading Temp
Discharge Temperature Range:	Ambient to Loading Temp; must be at least 5 °C above melting point
Maximum Heating Coil Temperature:	Normally Blanked off; 65 °C / 149 °F
Adjacent Maximum Cargo Temperature:	40 °C / 104 °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 ship, at their time, risk, and expense.
Note 2: PQ = Product Quality
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. 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: If antioxidant is used:

- Inter-Europe Voyages: No N2 blanket required
- Intercontinental Shipments: N2 blanket required, max 5% O2

If no antioxidant is used:

- Inter-Europe Voyages & Intercontinental Shipments: N2 blanket required, maintain Max 1000 ppm O2

Note 2: This product is not self-reactive; an inhibitor certificate is not needed when antioxidant is added.

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 Tank: Either, carrier to verify suitability of coating for product
Banned Prior Cargo: No
Wall Wash Required: No

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 Bemmel at +31104415992.

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