



Shell Chemicals

Cargo Handling Sheet

Neodene 6

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Revision 11

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

Product Details

Product Name: Neodene C6-XHP Alpha Olefin

IMO Product Name: Hexene (all isomers)

Chemical Family: Olefins

Product Code: V1262

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

Physical Properties

Density: 677 kg/m³ (20 °C / 68 °F)

Dynamic Viscosity: 0.23 mPa.s (20 °C / 68 °F)

Vapor Pressure: 0.414 bar (37.8 °C / 100.0 °F)

Boiling Point: 61 - 78 °C / 142 - 172 °F

Melting Point: -140 °C / -220 °F

Flash Point: -29 °C / -20 °F

Appearance: 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: Hazard Identification: Extremely flammable and Static accumulator; See SDS for full list of hazards and precautions.

Transhipments

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: 3; must be double hull

Inland Barge: Double Hull

IMO Pollution Category: Y

IBC 16.2.6: No

IBC 16.2.9: No
Pre-Wash Required: No
Compatibility Group: USCG compatibility group 30

Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading: Yes, PQ requirement; Max 100 ppm (0.01%) O₂, 99.99% N₂ Purity, see Notes below
Pre-loading N2 Purge Dew Point: -35 °C
N2 Blanket Required: Yes, PQ requirement; Max 100 ppm (0.01%) O₂, 99.99% N₂ Purity, see Notes below
Adjacent Space Purge: No
Loading Temperature Range: Ambient
Transit Temperature Range: Ambient - 40 °C / 104 °F
Discharge Temperature Range: Ambient - 40 °C / 104 °F
Maximum Heating Coil Temperature: Blanked off
Adjacent Maximum Cargo Temperature: 40 °C / 104 °F

Note 1: Due to product quality concerns, this product should not be carried in tanks serviced by a cargo pump room.

Note 2: All drain valves, plugs, and associated lines should be flushed and blown dry with nitrogen.

Note 3: Special attention should be given to the tightness of all tank and cargo line packings and gaskets, also to the relevant p/v valve and any closed loading equipment in use, to ensure no ingress of air into the cargo tank.

Note 4: Sample system must be flushed, approx. 5 –10 ltrs. before use. Take three samples and use only the third sample for testing.

Note 5: All cargo lines and hoses to be used during discharge should be used during loading.

Note 6: 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 7: PQ = Product Quality

Note 8: N₂ Blanket Guidance:

a. O₂ level in tanks: Max 100 ppm (0.01%) O₂

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 maintain a daily log of the following and the log shall be sent to the Shell Charterers/Planners at the time of discharge.

1. Tank pressure 2. O₂ level 3. Tank Temperature.

Regional Requirements

None

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 only
Banned Prior Cargo: See note below for additional testing
Wall Wash Required: Yes, WWT conducted by cargo surveyor

| Wall Wash Test: | Specification | Standard |
|-----------------|---------------|--------------|
| Hydrocarbons | Pass | ASTM D1722 |
| Chlorides | < 15 ppm | IMPCA 002-98 |
| Color Test | < 5 Pt/Co Max | ASTM D1209 |

Note 1: If prior cargo was an acid or alkaline, additional wall wash with de-ionized water is required, test PH, between 6.9 and 7.1 as an acceptable range.

Safety Information and Incident Reporting

Safety Information:

HSSE information can be found in the SDS or e-SDS.

Incident Reporting:

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

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 Centre telephone number is +18004248802.

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



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