



**Shell Chemicals**

# Cargo Handling Sheet

Neodene 6

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Revision 10

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

## Product Details

Product Name: Neodene C6-XHP Alpha Olefin  
Shipping 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: 674 kg/m<sup>3</sup> (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: 64 °C / 147 °F  
Melting Point: -140 °C / -220 °F  
Flash Point: -26 °C / -15 °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:** This product is a Static Accumulator

## 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%) O<sub>2</sub>, 99.99% N<sub>2</sub> Purity, see Notes below  
Pre-loading N2 Purge Dew Point: -35 °C  
N2 Blanket Required: Yes, PQ requirement; Max 100 ppm (0.01%) O<sub>2</sub>, 99.99% N<sub>2</sub> Purity, see Notes below  
Adjacent Space Purge: No  
Loading Temperature Range: Ambient  
Transit Temperature Range: Ambient  
Discharge Temperature Range: Ambient  
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:** N<sub>2</sub> Blanket Guidance:

- a. O<sub>2</sub> level in tanks: Max 100 ppm (0.01%) O<sub>2</sub>
- b. Vessel to maintain a constant nitrogen overpressure of 20 millibars or more during the voyage
- c. Vessel to keep a daily N<sub>2</sub> log of each tank:
  1. Tank pressure
  2. O<sub>2</sub> level
  3. Tank Temperature

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

### 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 N<sub>2</sub>, 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 6.0 and 7.5 as an acceptable range.

## 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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