



**Shell Chemicals**

# Cargo Handling Sheet

Neodene 18

Document Date: 12 May 2017  
Revision 5

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

## Product Details

Product Name: Neodene 18 Alpha Olefin  
Shipping Name: Olefin (C13+,all isomers)  
Chemical Family: Olefins  
Product Code: V1145

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

## Physical Properties

Density: 789 kg/m<sup>3</sup> (20 °C / 68 °F)  
Dynamic Viscosity: 4.31 mPas (20 °C / 68 °F)  
Vapor Pressure: 0.0089 Pa (25 °C / 77 °F)  
Boiling Point: 312 - 317 °C / 594 - 603 °F  
Melting Point: 17 °C / 63 °F  
Flash Point: 157 °C / 315 °F  
Appearance: Clear, colourless

**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, Charterers must agree to Owner's proposed plan

## 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 below notes and Regional Requirements; PQ Requirement

Adjacent Space Purge: No

Loading Temperature Range: Ambient – 40 °C / 104 °F

Transit Temperature Range: 25 – 30 °C / 77 – 86 °F

Discharge Temperature Range: 30 – 35 °C / 86 – 95 °F

Maximum Heating Coil Temperature: 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. Surveyor to record in survey report the type of cargo monitoring system and nitrogen replenishment system used onboard the vessel
- d. 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 nitrogen blanket required
- Intercontinental Shipments: nitrogen blanket required, maximum 5% O2

**If no antioxidant is used:**

- Inter-Europe Voyages & Intercontinental Shipments: N2 (99.99%) blanket required, maintain at <1000 ppm oxygen

**US Barging:** blanket < 5% O2

## 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 Tank:** Either, carrier to verify suitability of coating for product  
**Prior Cargo Restrictions:** 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 +17132413945 or Capt. Ben van Bommel at +31104415992.



### Shell Chemical LP

PO Box 4407

Houston

Texas 77210

USA

Tel +1 866 897 4355

**Internet <http://www.shell.com/chemicals>**

### Disclaimer

The information contained in this publication is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

### Shell Chemicals

The expression "Shell Chemicals" refers to the companies of the Shell Group of companies that are engaged in the chemical businesses. Each of the companies that make up the Shell Group of companies is an independent entity and has its own separate identity.