



**Shell Chemicals**

# Cargo Handling Sheet

NEODENE 10/12 1:4

Document Date: 12 March 2021  
Revision 2

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

## Product Details

Product Name: NEODENE 10/12 1:4  
IMO Product Name: Olefin mixtures (C5-C15)  
Chemical Family: Olefins  
Product Code: V1493

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

## Physical Properties

Density: 752 - 754 kg/m<sup>3</sup> (25 °C / 77 °F)  
Dynamic Viscosity: < 2 mPa.s estimated value (20 °C / 68 °F)  
Vapor Pressure: < 480 Pa (38 °C / 100 °F)  
Boiling Point: 177 - 184 °C / 351 - 363 °F  
Melting Point: < -30 °C / -22 °F  
Flash Point: 70 - 79 °C / 158 - 174 °F  
Appearance: Clear, Colourless liquid; 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: Combustible, static accumulator, Cat X product, classified as Toxic under IBC 2021. 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: 2  
Inland Barge: Double Hull  
IMO Pollution Category: X  
IBC 16.2.6: No

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

### Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading:	No
N2 Blanket Required:	Yes, See below notes and Regional Requirements; PQ Requirement
Adjacent Space Purge:	No
Loading Temperature Range:	Ambient – 40 °C / 104 °F
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:** 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. 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

**Note 1:** If antioxidant is used:

- Inter-Europe Voyages: no nitrogen blanket required
- Intercontinental shipments: nitrogen blanket required,  $\leq 5\%$  O2

**If no antioxidant is used:**

- Inter-Europe Voyages & Intercontinental Shipments: N2 blanket required, maintain maximum 1000 ppm (0.1 %) oxygen

**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 Tanks:** Stainless Steel or Coated, carrier to verify suitability of coating for product.

**Banned Prior Cargo:** No

**Wall Wash Required:** No

## 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 Center 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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