



Shell Chemicals

Cargo Handling Sheet

Neodene 10 IO

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Revision 1

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

Product Details

Product Name:	Neodene 10 Internal Olefin
IMO Product Name:	Decene
Chemical Family:	Olefins
Product Code:	V1197

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

Physical Properties

Density:	747 kg/m ³ (15 °C / 59 °F)
Kinematic Viscosity:	1.1 mm ² /s (20 °C / 68 °F)
Vapor Pressure:	218 Pa (25 °C / 77 °F)
Boiling Point:	170 °C / 338 °F
Melting Point:	-66 °C / -87 °F
Flash Point:	47 °C / 117 °F
Appearance:	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: Hazard Identification: Flammable and Static accumulator; See SDS for full list of hazards and precautions.

Transhipments

Prior to arranging transhipment, Charterers must be in agreement as to Owner's proposed plan.

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: 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

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. **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, maximum 5% O2

If no antioxidant is used:

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

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 preferred. If coated, carrier to verify suitability of coating for product.

Prior Cargo Restrictions: No

Wall Wash Required: No

Safety Information and Incident Reporting

Safety Information:

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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.



Shell Chemical LP

PO Box 4407

Houston

Texas 77210

USA

Tel +1 866 897 4355

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

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