



Shell Chemicals

Cargo Handling Sheet

NEODENE 1214

Document Date: 17 August 2020
Revision 5

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

Product Details

Product Name: NEODENE 1214
IMO Product Name: NEODENE 1214 (contains 1-Dodecene)
Chemical Family: Olefins
Product Code: V1159, V1235

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

Note 1: This product has been re-assessed by the USCG and granted a Tripartite Agreement dated 15 July 2020. Changed from CAT X to CAT Y.

Physical Properties

Density: ca. 768 kg/m³ (16 °C / 61 °F)
Dynamic Viscosity: 1.54 mPas (20 °C / 68 °F)
Vapor Pressure: 41 Pa (31 °C / 88 °F)
Boiling Point: 205 - 251 °C / 401 - 484 °F
Melting Point: -30 °C / -22 °F
Flash Point: 83 °C / 181 °F
Appearance: Colourless 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: Combustible, static accumulator

Transshipment

Prior to arranging transshipment Charterer must agree to Owner's proposed plan. When arranged by the Owner, Owner must ensure that all transshipment vessels comply with the requirements of this cargo handling sheet.

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:	No
Pre-Wash Required:	No
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 to Loading Temp
Discharge Temperature Range:	Ambient to Loading Temp
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. 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: no nitrogen blanket required
- Intercontinental shipments: nitrogen blanketing $\leq 5\%$ oxygen max

If no antioxidant is used:

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

Tank Acceptance Requirements

All nominated shipboard cargo handling systems are to be presented clean (residual free), dry, odour 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: Either, carrier to verify suitability of coating for product
Prior Cargo Restrictions: 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 Captain Stephen Boudreaux at +18323376982 or Capt. Ben van Bommel at +31104415992.



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