



Shell Chemicals

Cargo Handling Sheet

Dicyclopentadiene 94%

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Revision 6

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

Product Details

Product Name:	Dicyclopentadiene 94%
Shipping Name:	1,3-Cyclopentadiene dimer (molten)
Chemical Family:	Olefins
Product Code:	X2340

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

Physical Properties

Density:	975 - 989 kg/m ³ (20 °C / 68 °F)
Dynamic Viscosity:	4 mPas (20 °C / 68 °F)
Vapor Pressure:	186 Pa (20 °C / 68 °F)
Boiling Point:	Typical 170 - 190 °C / 338 - 374 °F (1010 hPa)
Melting Point:	Typical 10 - 15 °C / 50 - 59 °F
Flash Point:	Typical 25 - 32 °C / 77 - 90 °F
Appearance:	Pale straw-coloured liquid

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 Barge:	Double Hull
IMO Pollution Category:	Y
IBC 16.2.6:	Yes
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: Yes; PQ and Safety Requirement; 5% O2

N2 Blanket Required: Yes; PQ and Safety Requirement; see notes below and Regional Requirements

Adjacent Space Purge: No

Loading Temperature Range: 20 – 30 °C / 68 – 86 °F

Transit Temperature Range: 20 – 30 °C / 68 – 86 °F

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

Maximum Heating Coil Temperature: 45 °C / 113 °F

Adjacent Maximum Cargo Temperature: < 45 °C / 113 °F

Note 1: If vessel must inert tanks in accordance with regulation and/or Shell Chemical Inert Gas Clause, then only N2 will be accepted as an inerting medium.

Note 2: 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 3: PQ = Product Quality

Note 4: 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.

Note 5: This product is inhibited with TBC (para-tertiary butyl catechol), which is not oxygen dependent.

Regional Requirements

Note 1: If inhibitor is used:

- Inter-Europe Voyages: N2 blanket Oxygen content – 10%
- Intercontinental Shipments: N2 blanket Oxygen content - 5%

If no inhibitor is used:

- Inter-Europe Voyages & Intercontinental Shipments: N2 blanket Oxygen content - 0.25%

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 Tank: Either, carrier to verify suitability of coating for product
Prior Cargo Restrictions: None
Wall Wash Required: None

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.



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