



Shell Chemicals

Cargo Handling Sheet

Toluene

Document date: 01 January 2021
Revision 4

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

Product Details

Product Name:	Toluene
IMO Product Name:	Toluene
Chemical Family:	Aromatic Hydrocarbon
Product Code:	Q9131, Q9138, Q9250, Q9300, Q9308, T1402, X211H

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

Physical Properties

Density:	Typical 871 kg/m ³ (15 °C / 59 °F)
Kinematic Viscosity:	0.63 mm ² /s (25 °C / 77 °F)
Vapor Pressure:	Typical 3.5 kPa (20 °C / 68 °F)
Boiling Point:	Typical 110 - 111 °C / 230 - 232 °F
Melting Point:	Typical -95 °C / -139 °F
Flash Point:	4 °C / 39 °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: Highly flammable, Static accumulator, classified as Toxic under IBC 2021. See SDS for full list of hazards and precautions.

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:	3, must be double hull
Inland Barge:	Double hull
IMO Pollution Category:	Y
IBC16.2.6:	No

IBC 16.2.9:	No
Pre-Wash Required:	No
Compatibility Group:	USCG compatibility group 32

Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading	No
N2 Blanket Required:	No, see notes below
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 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 vessel, at their time, risk, and expense.

Regional Requirements

Note 1: US Barge: Coatings – Stainless Steel, Mild Steel, Zinc, Epoxy; N2 not required. Vapor Return – may be required depending on terminal Air Quality Permit; Heating - No

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:	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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