



Shell Chemicals

Cargo Handling Sheet

Methyl Triproxitol

Document Date: 23 June 2017
Revision 3

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

Product Details

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|------------------|--|
| Product Name: | Methyl Triproxitol |
| Shipping Name: | Poly (2-8) Alkylene Glycol Monoalkyl (C1-C6) Ether |
| Chemical Family: | Ether |
| Product Code: | U5148 |

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

Physical Properties

| | |
|----------------------|---|
| Density: | 965 kg/m ³ (20 °C / 68 °F) |
| Kinematic Viscosity: | 6.71 mm ² /s (20 °C / 68 °F) |
| Vapor Pressure: | 1.7 Pa (20 °C / 68 °F) |
| Boiling Point: | 242.8 °C / 469.0 °F |
| Melting Point: | -77.8 °C / -108.0 °F |
| Flash Point: | 124 °C / 255 °F |
| Appearance: | Clear |

Note 1: Physical Properties are for reference only and valid as of date of this revision; see loading terminal for specific properties.

Transhipment Prior to arranging transhipment, Charterers must agree to Owner's proposed plan

Marpol Details

| | |
|-------------------------|------------------------|
| Marpol Annex: | II |
| IMO Ship Type: | 3; Must be double hull |
| Inland Barge: | Double Hull |
| IMO Pollution Category: | Z |
| IBC 16.2.6: | No |
| IBC 16.2.9: | No |
| Pre-Wash Required: | No |

Compatibility Group: USCG compatibility group 40

Cargo Handling Requirements

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|--|--|
| N2 Purge Cargo Tanks Prior to Loading: | No |
| N2 Blanket Required: | Yes, PQ requirement; Max 5% O ₂ ; See notes below |
| Adjacent Space Purge: | No |
| Loading Temperature Range: | Ambient |
| Transit Temperature Range: | Ambient |
| Discharge Temperature Range: | Ambient |
| 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 vessel, at their time, risk, and expense.

Note 2: PQ = Product Quality

Note 3: N2 Blanket Guidance:

- a. O₂ level in tanks: Max 5% O₂
- 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: On short seas trading ship of <10,000 MT, Marineline coating may be substituted. Prior to the product being loaded, the local MTA must be informed that the coating is not damaged in any way, and the latest information confirms the coating is suitable for the product.

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 (see Regional Note above)
Prior Cargo Restrictions: No
Wall Wash Required: No

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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