



Shell

Cargo Handling Sheet

Methyl Tertiary Butyl Ether

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Revision 3

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

Trade Name: Methyl Tertiary Butyl Ether
IMO Product Name: Methyl Tertiary Butyl Ether
Chemical Family: Ethers
Product Code: X2113, X2939

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

Physical Properties

Density: 745 kg/m³ (15 °C / 59 °F)
Dynamic Viscosity: 0.35 mPa.s (20 °C / 68 °F)
Vapor Pressure: 25 kPa (20 °C / 68 °F)
Boiling Point: 55 °C / 131 °F
Melting Point: -109 °C
Flash Point: -28 °C / -18 °F
Appearance: Ethereal 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: Extremely Flammable, Static accumulator; 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
Inland Barge: Double Hull
IMO Pollution Category: Z

IBC 16.2.6:	No
IBC 16.2.9 (h):	No
Pre-wash Required:	No
Compatibility Group:	USCG compatibility group 41

Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading:	Not a Product Quality Requirement; see notes below
N2 Blanket Required:	Not a Product Quality Requirement; see notes below
Adjacent Space Purge:	No
Loading Temperature Range:	Ambient
Transit Temperature Range:	Ambient - 35 °C / 95 °F
Unloading Temperature Range:	Ambient - 35 °C / 95 °F
Maximum Heating Coil Temperature:	Blanked off
Maximum Adjacent Temperature:	35 °C / 95 °F

Note 1: If vessel is required to inert tanks, 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 unloading and receiving vessel, at their time, risk, and expense.

Regional Requirements

None

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
Banned Prior Cargo:	Maybe required if prior cargo contained benzene; Check local requirements
Wall Wash Required:	No

Safety Information and Incident Reporting

Safety Information: Refer the SDS (Safety Data Sheet) or e-SDS.

Incident Reporting: All incidents should be reported in accordance with regulations and charter party requirements.

For additional marine cargo handling advice or information, contact the regional Chemical Marine Technical Advisor.



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