



**Shell Chemicals**

# Cargo Handling Sheet

Methyl Isobutyl Ketone (MIBK)

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Revision 6

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

## Product Details

Product Name:	Methyl Isobutyl Ketone
Shipping Name:	Methyl Isobutyl Ketone
Chemical Family:	Ketone
Product Code:	S1215

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

## Physical Properties

Density:	799 - 802 kg/m <sup>3</sup> (20 °C / 68 °F)
Dynamic Viscosity:	Data Not Available
Vapor Pressure:	1.900 Pa (20 °C / 68 °F)
Boiling Point:	114 - 117 °C / 237 - 243 °F
Melting Point:	-85 °C / -121 °F
Flash Point:	14 °C / 57 °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.

**Note 2:** While this material is not expected to be a static accumulator, if sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air/vapour mixtures can occur.

## Transhipment

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

## Marpol Details

Marpol Annex:	II
IMO Ship Type:	3; must be double hulled
Inland Barges:	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 18

### Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading: No  
N2 Blanket Required: Not a PQ requirement; 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 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.

**Note 3:** PQ = Product Quality

### 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 for product; Epoxy may not be suitable if not fully cured.

**Banned Prior Cargo:** No

**Wall Wash Required:** Yes; all conducted with Methanol except PH test, which uses DI water

**Coated Tanks:** WWT conducted by cargo surveyor.

**Stainless Steel Tanks:** verification of shipboard WWT may be accepted if below specs are met. (Send WWT Verification to the responsible Shell Chemicals charterer and present to cargo surveyor and loading master at loading terminal.)

Wall Wash Test:	Specification	Standard
Hydrocarbons	Pass	ASTM D1722

**Additional WWT for Coated Tanks if Prior Cargo is:**

Prior Cargo	Wall Wash Test:	Specification	Standard
Acrylate	PPT	> 30 minutes	ASTM D1363
Oils, Waxes, Veg Oils, Fame	NVM	100 ppm	ASTM D1353
Acids, Alkalies	PH Test	6 – 8	ASTM E70

**Link to:** [WWT Verification Form](#)

## 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 +18323376982 or Capt. Ben van Bommel at +31104415992.



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