

Cargo Handling Sheet

Non-Shell Product

Benzene Concentrate (Valero)

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Revision 0

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

Information is obtained from supplier's SDS and other reference publications.

Product Details

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| Product Name: | Benzene Concentrate (Valero) |
| Shipping Name: | Petroleum Products, (Distillates (petroleum), C6-rich) |
| Chemical Family: | Aromatic Hydrocarbon |
| Product Code: | Valero Product ID no. 649-388-00-9 |
| SDS: | Obtain from Valero Terminal |

Physical Properties

| | |
|-------------------|--|
| Relative Density: | 0.62 - 0.88 (15 °C / 59 °F) |
| Viscosity: | < 1 mm ² /s (40 °C / 104 °F) |
| Vapor Pressure: | 4 – 240 kPa (37.8 °C / 100.0 °F) |
| Boiling Point: | 60 - 90 °C / 140 - 194 °F |
| Melting Point: | Not Applicable |
| Flash Point: | < -5 °C / 39 °F |
| Appearance: | Colourless to yellow liquid with aromatic odor |

Note 1: Physical Properties are for reference only; see loading terminal for specific properties

Note 2: This product is a static accumulator.

Note 3: This product is Toxic and Carcinogenic.

Transhipments

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

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|-------------------------|---|
| Marpol Annex: | I |
| IMO Ship Type: | Double hull vessels certified for carriage of oil |
| Inland Barges: | Double Hull |
| IMO Pollution Category: | Not Applicable |

| | |
|----------------------|-----------------------------|
| IBC 16.2.6: | Not Applicable |
| IBC 16.2.9: | Not Applicable |
| Pre-Wash Required: | Not Applicable |
| Compatibility Group: | USCG compatibility group 32 |

Cargo Handling Requirements

| | |
|--|---------------------------------------|
| N2 Purge Cargo Tanks Prior to 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: | Ambient |

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: Carrier to check with shipper to ensure correct heating requirements. Heat may be required if ambient temperature is excessively low. If heating condensate is returned to machinery spaces, then condensate returns should be tested using a benzene test kit.

Note 4: 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

Banned Prior Cargo: 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 for vessels on Shell charter.

International Registered Vessels: 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 centre telephone number is +18004248802.

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