



Shell Chemicals

Cargo Handling Sheet

Raffinate 1

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Revision 0

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

Product Details

Product Name: Raffinate 1
Shipping Name: Mixed C4 Cargoes
Chemical Family: Gases (petroleum), light steam-cracked, butadiene concentrate
Product Code: X2033, X2035, X2134, X2135, ZA025

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

Physical Properties

Relative Density: 0.6
Vapor Pressure: 250 kPa (20 °C / 68 °F)
Boiling Point: < 0 °C / 32 °F
Melting Point: Data Not Available
Flash Point: < -50 °C / < -58 °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: This product is a static accumulator

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

Regulatory Details

IMO Ship Type: 2G/2PG
Inland Barge: Pressure barge; see regional requirements
IGC Hazards: Flammable, Toxic

Cargo Handling Requirements

Purge Cargo Tanks Prior Loading:	Condition with product to expel N2
Pre-load Purge Oxygen Content:	< 0.3%
Loading Temperature Range:	Ambient for pressurised and semi-pressurised gas carriers
Transit Temperature Range:	Ambient for pressurised and semi-pressurised gas carriers
Discharge Temperature Range:	Ambient for pressurised and semi-pressurised gas carriers

Regional Requirements

Note 1: Inland Barge EUAF- ADN Type G

Tank Acceptance Requirements

Dew-point:	< -10°C / 14 °F
Peroxide Level:	Not Applicable
Prior Cargoes:	Consult Shell Chemical Responsible Charterer

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 (44) 207-934-7777.

Jones Act Vessels: call the Shell 24 hr. incident number at (1) 713-241-2532. The USA National Response Center telephone number is 1-800-424-8802.

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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