



SHELL

CARGO HANDLING SHEET

RAFFINATE 2

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

Product Details

Trade Name:	Raffinate 2
IMO Product Name:	Mixed C4 Cargoes
Chemical Family:	Gas (petroleum), light steam-cracked, butadiene
Product Code:	X2060 / X2143

[Link to Safety Data Sheet](#)

Physical Properties

Density:	590 kg/m ³ (20 °C / 68 °F)
Vapor Pressure:	73,4 kPa (20 °C / 68 °F)
Boiling Point:	-6 °C / 21 °F
Melting Point:	-185 °C / -301 °F
Flash Point:	< -70 °C / -94 °F
Appearance:	Colorless liquid with hydrocarbon odor

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

Marpol 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 N ₂ .
Pre-load Purge Oxygen Content:	< 0.3%
Loading Temperature Range:	Ambient for pressurized and semi-pressurized gas carriers
Transit Temperature Range:	Ambient for pressurized and semi-pressurized gas carriers
Discharge Temperature Range:	Ambient for pressurized and semi-pressurized gas carriers

Regional Requirements

Note 1: Inland Barge EUAF – AND Type G

Transshipments

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.

Tank Acceptance Requirement	
Banned Prior Cargo:	Consult Shell Charterer/ Planner
Dewpoint	< -10 °C / 14 °F
Peroxide Level	Not Applicable

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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