



Shell

Cargo Handling Sheet

Crude C4

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Revision 3

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

Product Details

Trade Name: Crude C4
IMO Product Name: Mixed C4 Cargoes
Chemical Family: Gases (petroleum), light steam-cracked, butadiene concentrate
Product Code: X2136, ZA17A

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

Physical Properties

Density: 670 kg/m³ (20 °C / 68 °F)
Vapor Pressure: 240 kPa (20 °C / 68 °F)
Boiling Point: -4 °C / 25 °F
Melting Point: -108.9 °C / -164.0 °F
Flash Point: -76 °C / -105 °F
Appearance: colourless liquid with hydrocarbon 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, Liquefied gas, Static Accumulator, High Vapor Pressure, Inhibited, Toxic, carcinogen, highly reactive, may form explosive peroxides, heat sensitive, thermal hazards; 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.

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:	< 0.2%
Loading Temperature Range:	Ambient for pressurised and semi-pressurised gas carriers
Transit Temperature Range:	Ambient for pressurised and semi-pressurised gas carriers
Unloading Temperature Range:	Ambient for pressurised and semi-pressurised gas carriers

Regional Requirements

Note 1: Inland Barge EUAF- ADN Type G

Tank Acceptance Requirements

Dewpoint:	< -10°C / 14 °F
Peroxide Level:	< 5 ppmw
Prior Cargoes:	Consult Shell Responsible Charterer

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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