



Shell Chemicals

Cargo Handling Sheet

Crude C4

Document Date: 18 December 2020
Revision 2

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

Product Details

Product 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.

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.

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
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:	< 5 ppmw
Prior Cargoes:	Consult Shell Chemical Responsible Charterer

Safety Information and Incident Reporting

Safety Information:

HSSE information can be found in the SDS or e-SDS.

Incident Reporting:

All incidents should be reported in accordance with regulations and charter party requirements.

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 the responsible regional Shell Chemicals Marine Technical Advisor.



Shell Chemical LP

PO Box 4407

Houston

Texas 77210

USA

Tel +1 866 897 4355

Internet <http://www.shell.com/chemicals>

Disclaimer

The information contained in this publication is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

Shell Chemicals

The expression "Shell Chemicals" refers to the companies of the Shell Group of companies that are engaged in the chemical businesses. Each of the companies that make up the Shell Group of companies is an independent entity and has its own separate identity.