



# **SHELL**

# **CARGO HANDLING SHEET**

## **Crude C4**

*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 hydrocarbon

[Link to Safety Data Sheet](#)

## Physical Properties

Density:	670 kg/m <sup>3</sup> at 15 °C / 59 °F
Vapor Pressure:	240 kPa at 20 °C / 68 °F
Boiling Point:	-4 °C / 25 °F
Melting Point:	-50 °C / -58 °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.

## Marpol Details

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

## Cargo Handling Requirements

Purge Cargo Tanks Prior Loading:	Condition with product to expel N <sub>2</sub> .
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 Requirement

**Note 1:** Inland Barge EUAF - ADN 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	
Prior Cargoes:	Consult Shell Charterer/Planner/Operator
Dewpoint:	< -10 °C / 14 °F
Peroxide Level:	< 5 ppmw

## 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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