

Cargo Handling Sheet

Non-Shell Chemical Product

LPG (External)

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Revision 0

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

Information is obtained from supplier's SDS and other reference publications.

Product Details

Product Name:	LPG
Shipping Name:	Butane-Propane Mixture
Chemical Family:	Petroleum Gases, Liquefied
Product Code:	800010016060SB
SDS:	Shell Bukom to Provide

Physical Properties

Density:	Typical 540 kg/cm ³
Vapor Pressure:	Typical range 380 kPa to 840 kPa
Boiling Point:	Typical -40.0 to -2.0 °C / -40 to 28.4 °F
Melting Point:	Typical -187.6 to -138.3 °C / -305.7 to -216.9 °F
Flash Point:	ca. -104 to -60 °C / -155 to -76 °F
Appearance:	Colourless liquid under pressure

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

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

Regulatory Details

IMO Ship Type:	2G/2PG
IGC Hazards:	Flammable

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 to - 40°C/ -40°F	see note 1
Transit Temperature Range:	Ambient to - 40°C/ -40°F	
Discharge Temperature Range:	Ambient to - 40°C/ -40°F	

Note:1 Vessels arriving at dock under nitrogen are reminded of the possibility of super cooling when commencing loading. This is caused by the cargo liquid, pumped into the ships' tanks, evaporating very quickly to reach equilibrium. It is therefore preferred to commence loading with warm cargo vapor first to a sufficient pressure. Where the facility is unable to provide warm cargo vapor, the loading operation must be commenced at a very slow rate. In any case the ship's cargo tank temperature must not fall below the cryogenic limits.

Regional Requirements

None

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:

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.

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