



Shell Chemicals

Cargo Handling Sheet

1,3 Propanediol

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Revision 1

Product Details:

Product Name:	1,3 Propanediol
Shipping Name:	Propylene Glycol
Chemical Family:	Glycol
Product Code:	C9024
SDS:	http://www.shell.com/chemicals/responsible-energy/msds-search.html

Physical Properties:

Density:	1053 kg/m ³ @ 15 deg C.
Specific Gravity:	
Dynamic Viscosity:	52 (mPa) @ 20 deg C
Vapor Pressure:	ca. 10 (Pa) @ 20 deg C.
Boiling Point:	214 deg C
Pour Point:	-27 deg C.
Flash Point:	129 deg C

Notes:

Transshipments

Prior to arranging a transshipment, the Shell Chemical Charterer must be in agreement as to Owner's proposed plan.

Marpol Details:

Marpol Annex:	II
IMO Ship Type:	3, Shell Chemicals requires a ship type 2
IMO Pollution Category:	Z
Oil Like:	No
High Viscosity:	N/A
Solidifying:	No

Notes:

Cargo Handling Requirements:

Prepurging of Vessel's Tanks:	No
Pre-purge Oxygen Content:	N/A
Pre-purge Dew Point:	N/A
Blanket Required:	Yes
Percent Oxygen in Nitrogen Blanket:	<5%
Vapor Space Purge:	No
Loading Temperature Range:	Ambient
Transit Temperature Range:	Ambient
Discharge Temperature Range:	Ambient
Maximum Heating Coil Temperature:	Blanked off
Adjacent Maximum Cargo Temperature:	<40 deg C.

Regional Requirements: None noted at this time.

Notes: If Nitrogen blanket is in place and Carrier chooses to transship, carrier must reapply nitrogen blanket on the cargo, both on the discharging and receiving ship, at their time, risk, and expense.

Tank Acceptance Requirements:

All shore and ship cargo lines and tanks are to be presented clean (residual free), dry, odor free, and rust free, with good gaskets and pressure tested heating coils. Heating coils to be blown clear with nitrogen

Stainless Steel or Coated Tanks :	Coated, carrier to verify suitability of coating for product.
Wall Wash Required:	May be required
Wash Specifications:	Wash with product and test against specs.

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: call Shell International Trading and Shipping in London on (44) 207-934-7777.

Jones Act Vessels: call the Shell 24 hr. incident number at 713-241-2532. The USA National response center telephone number is 1-800-424-8802

For additional marine cargo handling advice or information, contact Captain Eddie Trotter at (+1 713 241 3535)



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