

# Cargo Handling Sheet

Non-Shell Product

CO-1214 (Oleo Alcohol)

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Revision 4

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

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

### Product Details

Product Name:	CO-1214 (Oleo Alcohol)
IMO Product Name:	Alcohols (C12+), primary, linear
Chemical Family:	Fatty Alcohol (Lauryl/Myristyl Alcohol)
Product Code:	Non-Shell; P&G product
SDS:	Get from loading terminal or charterer

### Physical Properties

Specific Gravity:	0.80 (22 °C / 71.6 °F)
Correction factor:	check with supplier
Dynamic Viscosity:	12 mPas (22 °C / 68 °F)
Vapor Pressure:	≤ 10 mm hg (22 °C / 71.6 °F)
Boiling Point:	≥ 176.7 °C / 350 °F
Melting Range:	18 -22 °C / 64.4 - 71.6 °F
Flash Point:	143.3 °C / 290 °F
Appearance:	Water white with a waxy 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:** Not classified in GHS as a physical hazard; High viscosity, solidifying, heated, Incompatible with Isocyanates; See SDS for full list of hazards and precautions.

### Transhipments

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.

### Marpol Details

Marpol Annex:	Annex II
IMO Ship Type:	2

Inland Barge:	Double Hull
IMO Pollution Category:	Y
IBC 16.2.6	Yes
IBC 16.2.9:	Yes
Pre-wash Required:	No pre-wash required when discharged in accordance with CHS
Compatibility Group:	USCG compatibility group 20, not compatible with group 12 Isocyanates

### Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading:	Yes, 3% O <sub>2</sub> ; PQ requirement
N2 Blanket Required:	Yes, 3% O <sub>2</sub> ; PQ requirement, see Regional Requirements
Adjacent Space Purge:	No
Loading Temperature Range:	24 – 49 °C / 75 – 120 °F
Transit Temperature Range:	24 – 49 °C / 75 – 120 °F
Discharge Temperature Range:	32 – 49 °C / 90 – 120 °F (see note 4 below)
Maximum Heating Coil Temperature:	60 °C / 140 °F
Adjacent Maximum Cargo Temperature:	49 °C / 120 °F

**Note 1:** Cargo may be heated at a rate of 10 °C / 18 °F per day.

**Note 2:** If Nitrogen blanket is in place and Carrier chooses to tranship, carrier must reapply nitrogen blanket on the cargo, both on the discharging and receiving vessel, at their time, risk, and expense.

**Note 3:** PQ = Product Quality

**Note 4:** N2 Blanket Guidance:

- a. O<sub>2</sub> level in tanks: 3%
- b. Vessel to maintain a constant nitrogen overpressure of 20 millibars or more during the voyage
- c. DAILY LOG: During the voyage the vessel shall maintain a daily log of the following and the log shall be sent to the Shell Charterer/Planner at the time of discharge.
  1. Tank pressure
  2. O<sub>2</sub> level
  3. Tank Temperature

### Regional Requirements

**Note 1:** Short voyages ≤ 10 days may only require blanketing.

## 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.

Maintenance of heating coils is to be verified in the ship's log. If product is to be heated, heating coils are to be confirmed leak free. If product is not heated, heating coils are to be blown clear and dried with N<sub>2</sub>, and blanked off.

**Stainless Steel or Coated Tanks:** Stainless Steel preferred. High-baked phenolic and modified phenolic coatings may be accepted.

**Banned Prior Cargo:** Styrene or any other product which can polymerize; all acids, and Caustic

**Wall Wash Required:** Yes; all conducted with Methanol except PH test, which uses DI water. WWT taken by Cargo Surveyor regardless of whether tanks are stainless steel or epoxy coated.

Wall Wash Test:	Specification	Standard
Hydrocarbons	Pass	ASTM D1722
Chlorides	< 3 ppm	IMPCA 002-98
Color Test	< 10 Pt/Co Max	ASTM D1209

### Additional WWT for Coated Tanks if Prior Cargo is:

Prior Cargo	Wall Wash Test:	Specification	Standard
Acrylate	PPT	> 30 minutes	ASTM D1363
Oils, Waxes, Veg Oils, Fame	NVM	100 ppm	ASTM D1353
Acids, Alkilis	PH Test	6.9 – 7.1	ASTM E70

## 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.

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