



**Shell Chemicals**

# Cargo Handling Sheet

DI-Linevol 911P

Document Date: 14 February 2020  
Revision 4

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

## Product Details

Product Name:	DI-Linevol 911P
Shipping Name:	Dialkyl (C7-C13) phthalates
Chemical Family:	Esters
Product Code:	V9518

SDS: <http://www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets.html>

## Physical Properties

Relative Density:	0.960 (20 °C / 68 °F)
Dynamic Viscosity:	59 mPas (20 °C / 68 °F) 50 mPa.s (23 °C / 73 °F)
Vapor Pressure:	Data Not Available
Boiling Point:	430 °C / 806 °F
Melting Point:	-20 °C / -4 °F
Flash Point:	248 °C / 478 °F
Appearance:	Colourless

**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 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:	II
IMO Ship Type:	2
Inland Barges:	Double Hull
IMO Pollution Category:	X
IBC 16.2.6:	Yes

IBC 16.2.9:	No
Pre-Wash Required:	Yes
Compatibility Group:	USCG compatibility group 34

### Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading:	Yes, PQ Requirement; 1000 ppm O <sub>2</sub> ; see notes below and Regional Requirements
N2 Blanket Required:	Yes, PQ requirement; 1000 ppm O <sub>2</sub> ; See notes below and/or Regional Requirements
Adjacent Space Purge:	No
Loading Temperature Range:	Ambient
Transit Temperature Range:	Ambient
Discharge Temperature Range:	Ambient; see Regional Requirement below
Maximum Heating Coil Temperature:	65 °C / 149 °F
Adjacent Maximum Cargo Temperature:	50 °C / 122 °F

**Note 1:** 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 2:** PQ = Product Quality

**Note 3:** N2 Blanket Guidance:

- a. O<sub>2</sub> level in tanks: 1000 ppm O<sub>2</sub>; See Regional Requirements
- b. Vessel to maintain a constant nitrogen overpressure of 20 millibars or more during the voyage
- c. Vessel to keep a daily N<sub>2</sub> log of each tank:
  1. Tank pressure
  2. O<sub>2</sub> level
  3. Tank Temperature

Log is to be presented to receiver at time of discharge and a copy sent to Charterers.

### Regional Requirements

**Note 1:** Short voyages < 5 days may only require blanketing; however, if the short voyage is part of an international voyage, the short voyage must also have the tanks purged.

**Note 2:** Discharge temperature is ambient; however, temperature 16 – 21 °C is acceptable to improve pumpability in cold climates, as long as these temperatures are maintained during the voyage.

## Tank Acceptance Requirements

All nominated shipboard cargo handling systems are to be presented clean (residual free), dry, odor free, rust free, with good gaskets, fit to load this cargo.

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 Tank:** Stainless Steel, Epoxy  
**Banned Prior Cargo:** Styrene or any other product which can polymerize. Also Phosphoric and Sulphuric acid, and Caustic  
**Wall Wash Required:** Yes; all conducted with Methanol except PH test, which uses DI water

**Coated Tanks:** WWT conducted by cargo surveyor.

**Stainless Steel Tanks:** verification of shipboard WWT may be accepted if below specs are met. (Send WWT Verification to the responsible Shell Chemicals charterer and present to cargo surveyor and loading master at loading terminal.)

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, Alkalis	PH Test	6 – 8	ASTM E70

**Link to:** [WWT Verification Form](#)

## 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 +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 Captain Stephen Boudreaux at +18323376982 or Capt. Ben van Bommel at +31104415992.



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.