

# Cargo Handling Sheet

Non-Shell Product

**Formosa 500 SN Base Oil**

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Revision 2

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

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

### Product Details

Product Name:	Formosa 500 SN Base Oil
Shipping Name:	Base Oil
Chemical Family:	Base Oil
Product Code:	Non-Shell; Formosa product
SDS:	Get from loading terminal or charterer

### Physical Properties

Relative density:	0.866 @ 15 °C / 59 °F
Kinematic Viscosity:	88.3 (cSt) @ 40 °C / 104 °F
Vapor Pressure:	<0.1 mm (Hg) @ 20 °C / 68 °F
Boiling Point:	370 °C / 698 °F
Pour Point:	-20 °C / -4 °F
Flash Point:	> 219 °C / 426 °F
Appearance:	Colourless

**Note 1:** Physical Properties are for reference only; see loading terminal for specific properties.

**Note 2:** This product may be a static accumulator.

**Transhipments** Prior to arranging transhipment Charterer must agree to Owner's proposed plan

### Marpol Details

Marpol Annex:	I
IMO Ship Type:	Double hull vessels certified for carriage of oil
Inland Barge:	Double Hull
IMO Pollution Category:	Annex I
IBC 16.2.6:	Not applicable
IBC 16.2.9:	Not applicable

Pre-wash Required: Not Applicable; wash/disposal as per Annex I

Compatibility Group: USCG compatibility group 33

### Cargo Handling Requirements

N2 Purge Cargo Tanks Prior to Loading:	No
N2 Blanket Required:	No; see notes below
Adjacent Space Purge:	No
Loading Temperature Range:	Ambient – 35°C / 95°F; see notes below
Transit Temperature Range:	Ambient – 35°C / 95°F
Discharge Temperature Range:	30 – 50 °C / 86 - 122 °F (Check with receiver)
Maximum Heating Coil Temperature:	60 °C / 140 °F
Adjacent Maximum Cargo Temperature:	50 °C / 122 °F

**Note 1:** Consult supplier regarding N2 blanket.

**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:** Consult supplier regarding carriage temperatures.

### Regional Requirements

None

### 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 N2, and blanked off.

Stainless Steel or Coated Tank:	Either, carrier to verify suitability of coating for product
Prior Cargo Restrictions:	No
Wall Wash Required:	No

## 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 for vessels on Shell charter.

International Registered Vessels: 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.

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