



**Shell Chemicals**

# Cargo Handling Sheet

Shell DACO

Document Date: 28 July 2017  
Revision 3

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

This product shipped on behalf of Shell Base Oil.

### Product Details

Product Name:	Shell DACO
Shipping Name:	Base Oil
Product Description:	Residual Oil Solvent Extract
Product Code:	001C5761
SDS:	Provided by loading terminal

### Physical Properties

Density:	Typical 980 kg/m <sup>3</sup> at 15 °C / 59 °F
Kinematic Viscosity:	Typical 60 mm <sup>2</sup> /s at 100 °C / 212 °F
Vapor Pressure:	< 0.5 Pa at 20 °C / 68 °F
Boiling Point:	> 280 °C / 536 °F
Pour Point:	Typical 15 °C / 59 °F
Flash Point:	Typical 300 °C / 572 °F
Appearance:	Brown, viscous liquid

**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

### 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 Loading:	No
N2 Blanket Required:	see charter party
Loading Temperature Range:	ca 70 °C; may be more if coming direct from plant.
Transit Temperature Range:	60 – 85 °C / 140 – 185 °F
Discharge Temperature Range:	70 – 85 °C / 158 – 185 °F
Maximum Heating Coil Temperature:	100 °C / 212 °F
Adjacent Maximum Cargo Temperature:	85 °C / 185 °F

### 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:

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 +17132413945 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.