



**Shell Chemicals**

# Cargo Handling Sheet

Shell GTL Solvent GS 310

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Revision 6

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

## Product Details

Product Name:	Shell GTL Solvent GS 310
Shipping Name:	Gas Oil (See Cargo Handling Requirement note below)
Chemical Family:	Distillates C8 – C26 branched and linear
Product Code:	Q6544, Q6539

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

## Physical Properties

Density:	< 800 kg/m <sup>3</sup> (15 °C / 59 °F)
Kinematic Viscosity:	Typical 9.5 mm <sup>2</sup> /s (25 °C / 77 °F)
Vapor Pressure:	Data not available
Boiling Point:	300 - 380 °C / 572 - 716 °F
Melting Point:	Data not available
Flash Point:	170 °C / 338 °F
Appearance:	Colourless liquid, hydrocarbon 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:** This product is a Static Accumulator.

## 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:	Annex I
IMO Ship Type:	Double Hull vessels certified for carriage of oil
Inland Barges:	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:	No
Adjacent Space Purge:	No
Loading Temperature Range:	Ambient – 30 °C / 86 °F
Transit Temperature Range:	0°C / 32 °F – Loading Temp
Discharge Temperature Range:	0°C / 32 °F – Loading Temp
Maximum Heating Coil Temperature:	50 °C / 122 °F; may need heat to maintain temperature above 0°C
Adjacent Maximum Cargo Temperature:	55 °C / 131 °F

**Note 1:** Shipping name is "Gas Oil". However, when product is shipped by Shell Chemicals, it should be treated as a water-white chemical susceptible to aromatics.

### 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
Banned Prior Cargo:	No
Wall Wash Required:	Yes, After Aromatics only; WWT 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
Appearance	Clear and free from suspended matter	ASTM D4176
Chlorides	≤ 5.0 ppm	IMPCA 002-98
Hydrocarbons	= Pass	ASTM D1722

**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.



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