

# Cargo Handling Sheet

Non-Shell Chemical Product

Ethanol BIO

Document Date: 14 February 2020

Revision 0

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

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

### Product Details

Product Name:	Ethanol BIO
Shipping Name:	Ethyl Alcohol
Chemical Family:	Alcohol
Product Code:	S8120 (Shell Chemical Code)
SDS:	3 <sup>rd</sup> Party Supplier to Provide

### Physical Properties

Relative Density:	792 kg/m <sup>3</sup> @ 15 °C / 59 °F
Kinematic Viscosity:	1.1 mm <sup>2</sup> /s @ 40 °C / 104 °F
Vapor Pressure:	16 kPa @ 38 °C / 100 °F
Boiling Point:	78 °C /172 °F
Freezing Point:	Data Not Available
Flash Point:	13 °C /55 °F
Appearance:	Clear, colourless liquid with weak ethereal alcohol odour

**Note 1:** Physical Properties are for reference only and valid as of date of this revision; see loading terminal for parcel specific physical properties.

**Note 2:** This product is a static accumulator

### 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:	II
IMO Ship Type:	3
Inland Barge:	Double Hull
IMO Pollution Category:	Z

IBC 16.2.6:	Not Applicable
IBC 16.2.9:	Not Applicable
Pre-Wash Required:	No
Compatibility Group:	USCG Compatibility Group 20

### Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading:	No
N2 Blanket Required:	Not a PQ requirement; see notes below
Adjacent Space Purge:	No
Loading Temperature Range:	Ambient
Transit Temperature Range:	Ambient
Discharge Temperature Range:	Ambient
Maximum Heating Coil Temperature:	Not Applicable
Adjacent Maximum Cargo Temperature:	40 °C / 104 °F

**Note 1:** If vessel must inert tanks in accordance with regulation and/or Shell Chemical Inert Gas Clause, then only N2 will be accepted as an inerting medium.

**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

### 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:** No

**Note 1:** Currently this product is being shipped on European barges only, which do not require WWT prior to loading. Contact the Regional Shell Chemical MTA for WWT instructions if this product is scheduled to load onboard a deep-sea vessel.

## 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.

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