

HonuBio STL

Stern Tube Lubricant



Next Generation Sustainable Lubrication Technologies

PRODUCT NAME

HonuBio STL
Stern Tube Lubricant

DESCRIPTION

HonuBio STL is a high performance, biodegradable product formulated from high quality synthetic ester technologies.

HonuBio STL's lubricating film resists water, which keeps stern tube systems protected for extended periods of time and under severe operating conditions. In addition, this product is miscible with petroleum products commonly used for stern tube lubrication.

HonuBio STL fluid is available in ISO grades 68, 100 and 150.

FEATURES AND BENEFITS

Designed for use in the marine industry. The propulsion system in ships is a complex design including: the engine, propeller shaft, seals, bearings, lubricating oil, and the stern tube. Inside the stern tube is the propeller shaft, seals, bearings, and of course the lubricating oil that keeps the friction down and dissipates the heat generated during operation.

APPROVALS AND CERTIFICATIONS

- SKF Blohm-Voss Seal Approval
- Classified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's guidance document that defines standards for Environmentally Acceptable Lubricants (EPA 800-R-11-002) and as required by EPA's 2013 U.S. Vessel General Permit (VGP).

PACKAGE SIZES

5 Gal Pails, 55 Gal Drums, 275 Gal Totes



APPLICATION

Follow recommendations provided in your equipment's owner's manual. Follow your organization's manuals and/or best practices for preparation, cleaning, conversion, application and ongoing maintenance practices. If you have further questions, please contact Honu Eco Tech Services by filling out the contact us form on honueco.com

STORAGE

Keep in a cool, dry and well-ventilated place. Store in a properly labelled, original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. To help maintain product quality, do not store in heat or direct sunlight.

CAUTIONS

Ensure adequate ventilation. Do not breathe vapor/dust. Use personal protective equipment and avoid contact with skin, eyes, and clothing. Wash thoroughly after

AVAILABILITY

- Worldwide

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Typical Properties

Properties	Test Method	STL 68	STL 100	STL 150
Product Code		HBSTL68	HBSTL100	HBSTL150
ISO Grade		68	100	150
Specific Gravity	D1298	0.92	0.92	0.92
Viscosity @40°C, cSt	D445	68	100	150
Viscosity @100°C, cSt	D445	10.6	13.8	18.6
Viscosity Index	D2270	>140	>140	>140
Pour Point °C	D97	-34	-33	-33
Flash Point °C	D92	320	320	320
Readily Biodegradability % (meaning>60%)		Pass	Pass	Pass
Biodegradability %	OECD 301B	>73	>73	>73
Minimally Toxic		Pass	Pass	Pass
Algae (EC 50), 72 hr, mg/L	OECD 201	>27,000 mg/L	>27,000 mg/L	>27,000 mg/L
Daphnia (EC 50), 48 hr, mg/L	OECD 202	>16,000 mg/L	>16,000 mg/L	>16,000 mg/L
Fish (LC 50), 96 hr, mg/L	OECD 203	>48,000 mg/L	>48,000 mg/L	>48,000 mg/L
Not Bioaccumulative (Calculated value as per EPA standard)		Pass	Pass	Pass

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