

# Sinova Marine BIO HLP EAL 32

## Biodegradable Oil

### Product description:

Sinova Marine BIO HLP-EAL 32 is a high-performance, anti-wear hydraulic oil designed for modern, high-pressure hydraulic systems. They provide excellent performance across a wide temperature range, surpassing the capabilities of non-synthetic environmentally acceptable oils. The Sinova Marine BIO HLPEAL 32 oil is specially formulated from ester base stocks. This oil provides exceptional anti-wear and film strength characteristics. These characteristics are necessary for hydraulic systems operating under high load and high pressures.

### Application:

- In systems where fluids that are readily biodegradable and minimally toxic may be required
- Circulation systems containing gears and bearings with mild extreme pressure characteristics are desired.
- Systems containing servo-valves
- Hydraulic systems operating with oil temperatures in the range of -30°C to +100°C
- Marine and mobile equipment operating in environmentally sensitive areas
- Circulation systems that operate under mild to moderate service conditions.

### Features & Benefits:

- Outstanding load-carrying and anti-wear properties.
- High viscosity index and shear stability help sustain component protection over a wide temperature range.
- Excellent thermal/oxidation stability
- Excellent demulsibility ensures ease of water removal in below-waterline applications.
- Good elastomer compatibility

### Typical Properties

Property	Unit	Test method	Typical value
ISO viscosity grade	-	-	32
Density at 15°C	g/cm <sup>3</sup>	ASTM D 4052	0.910
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D 445	32.00
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D 445	6.110
Viscosity Index	-	ASTM D 2270	140
Flash Point, COC	°C	ASTM D 92	183
Pour Point	°C	ASTM D 97	-54
Bioaccumulation, Partition Coefficient, Log Pow	-	OECD 117	<3
Rust-Preventing Characteristics, A&B	-	ASTM D665	Pass
FZG test	-	ISO 1635-1	11
Shake-Flask Test, CO <sub>2</sub> Evolution (Mod. Sturm)	%	OECD 301B	>60
Acute Algae Toxicity EC50/72h	mg/l	OECD 201	>1000
Acute Daphnia Toxicity EC50/48h	mg/l	OECD 202	>1000
Acute Fish Toxicity EC50/96h	mg/l	OECD 203	>1000

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Typical property characteristics are based on current production. Whilst future production will conform to Sinova specifications, variations in these characteristics may occur.

## Performance claims

- DENISON HF-1/2/6
- EATON BROCHURE No.03-401-2010 Rev 1
- US EPA VGP:2013

### Health, Safety & Environment:

#### Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website:

[www.sinovagroup.ch](http://www.sinovagroup.ch)

#### Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

### Available pack sizes:

- 20 L Canister plastic
- 30 L Canister plastic
- 200 L Drum sheet metal
- 1000 L Container

## Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

## Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products

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safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.

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