

# Sinova Marine Stern EAL 220

## Biodegradable Oil

### Product description:

Sinova Marine Stern EAL 220 is designed for use in environmentally sensitive areas where there is a risk of incidental spillage.

Sinova Marine Stern EAL 220 is a range of high-quality, synthetic, biodegradable lubricants with outstanding anti-wear and anti-corrosion properties, high viscosimetric performance, and good low-temperature behaviour, offering an extensive operating temperature range.

### Application:

Sinova Marine Stern EAL 220 is an Environmentally Acceptable Lubricant (EAL) as defined in the US 2013 Vessel General Permit (VGP). Sinova Marine Stern EAL 220 is particularly recommended. It is used to lubricate sliding and rolling bearings. These are used in stern tubes. This helps to minimise environmental impacts.

### Typical Properties

| Property                     | Unit               | Test method | Typical value |
|------------------------------|--------------------|-------------|---------------|
| ISO viscosity grade          | -                  | -           | 220           |
| Density at 15°C              | g/cm <sup>3</sup>  | ASTM D 4052 | 0.963         |
| Kinematic Viscosity at 40°C  | mm <sup>2</sup> /s | ASTM D 445  | 220.0         |
| Kinematic Viscosity at 100°C | mm <sup>2</sup> /s | ASTM D 445  | 29.00         |
| Viscosity Index              | -                  | ASTM D 2270 | >170          |
| Flash Point, COC             | °C                 | ASTM D 92   | >250          |
| Pour Point                   | °C                 | ASTM D 97   | -28           |
| Biodegradability             | %                  | OECD 301B   | >60           |
| Foaming                      | ml/ml              | ISO 6614    | 0/0           |

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

### Performance claims

- US Vessel General Permit Compliant
- WÄRTSILÄ PROPULSION
- BLOHM & VOSS (SIMPLEX)

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### 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 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.