



# Marine Gear Oil Sterndrive High Performance

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Marine Gear Oil Sterndrive High Performance  
 Product code : BL052000

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
 Use of the substance/mixture : Automotive care products  
 Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

MPM International Oil Company  
 Cyclotronweg 1  
 2629 HN Delft - Nederland  
 T +31 (0)15 2514030 - F +31 (0)15 2514031  
[info@mpmoil.nl](mailto:info@mpmoil.nl) - [www.mpmoil.nl](http://www.mpmoil.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

| Country        | Official advisory body  | Address                                     | Emergency number | Comment |
|----------------|---|---|------------------|---------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                                      | Beaumont Hospital Beaumont Road<br>9 Dublin | : +353 1 8379964 |         |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road<br>SE14 5ER London             | 0870 243 2241    |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

CLP Signal word : Warning  
 Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
 Precautionary statements (CLP) : P102 - Keep out of reach of children.  
 P101 - If medical advice is needed, have product container or label at hand.  
 P280 - Wear eye protection, protective gloves.  
 P302+P352 - IF ON SKIN: Wash with plenty of water/...  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P501 - Dispose of contents/container to officially registered waste disposal company.

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### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier  | %          | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                |
|--|---|------------|--|
| Methacrylate copolymer   | (EC-No.) 931-551-3  | 10 - 24,9  | Eye Irrit. 2, H319   |
| Polysulfides, di-tert-Bu   | (CAS-No.) 68937-96-2<br>(EC-No.) 273-103-3<br>(REACH-no) 01-2119540515-43 | 1 - 4,99   | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                           |
| Mineral oil  | (CAS-No.) 64742-54-7<br>(EC-No.) 265-157-1<br>(EC Index-No.) 649-467-00-8 | 1 - 2,49   | Asp. Tox. 1, H304  |
| Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl | (EC-No.) 931-384-6<br>(REACH-no) 01-2119493620-38                         | 1 - 2,49   | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |
| O,O,O-triphenyl phosphorothioate   | (CAS-No.) 597-82-0<br>(EC Index-No.) 209-909-9                            | 0,1 - 0,99 | Repr. 2, H361fd<br>Aquatic Chronic 4, H413   |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                    |  |
|--------------------|--|
| After inhalation   | : Not required.  |
| After skin contact | : Wash with plenty of soap and water.  |
| After eye contact  | : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. |
| After ingestion    | : IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.                               |

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : water spray, powder, foam and CO <sub>2</sub> . |
| Unsuitable extinguishing media | : High power water jet.                           |

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

|                             |  |
|-----------------------------|--|
| Precautionary measures fire | : Do not enter fire area without proper protective equipment, including respiratory protection.                                    |
| Other information           | : Exercise caution when fighting any chemical fire. Use water spray/stream to protect personnel and to cool endangered containers. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : When using do not smoke.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and gloves.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves.

### 6.2. Environmental precautions

Do not flush into surface water or sewer system. Notify authorities if liquid enters sewers or public waters.

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### 6.3. Methods and material for containment and cleaning up

- For containment : Prevent spreading over great surfaces (e.g. by damming or installing oil booms).  
Methods for cleaning up : Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).  
Other information : Can be slippery on hard, smooth walking area.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Keep away from food, drink and animal feedingstuffs.  
Hygiene measures : When using do not eat, drink or smoke. Wash hands before breaks and at the end of work.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Store in a well-ventilated place. Keep container tightly closed.  
Incompatible products : alkali. Strong acid.  
Storage temperature :  $\geq 40$  °C  
Storage area : Ensure adequate ventilation of the storage area.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Marine Gear Oil Sterndrive High Performance |                                |                     |
|---|--------------------------------|---------------------|
| EU  | IOELV TWA (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup> |

- Additional information : Based on ACGIH TLV, a concentration of 5 mg/m<sup>3</sup> oilspray (TWA, 8 hour workday) is recommended.

### 8.2. Exposure controls

#### Technical measures:

If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

#### Personal protective equipment:

Gloves. Safety glasses.

#### Hand protection:

In case of repeated or prolonged contact wear gloves

| Type | Material             | Permeation        | Thickness (mm) | Penetration | Standard |
|------|----------------------|-------------------|----------------|-------------|----------|
|      | Nitrile rubber (NBR) | 6 (> 480 minutes) | > 0.35 mm      |             |          |

#### Eye protection:

Safety glasses

#### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

#### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation



#### Other information:

When using do not eat, drink or smoke. The usual precautions for handling chemicals should be observed.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid

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|  |   |
|--|---|
| Appearance                                 | : Oily.   |
| Colour                                     | : Yellowbrown.  |
| Odour                                      | : Oily.   |
| Odour threshold                            | : No data available   |
| pH   | : Not applicable  |
| Relative evaporation rate (butylacetate=1) | : No data available   |
| Melting point                              | : No data available   |
| Freezing point                             | : No data available   |
| Boiling point                              | : No data available   |
| Flash point                                | : > 200 °C ASTM D 92  |
| Auto-ignition temperature                  | : No data available   |
| Decomposition temperature                  | : No data available   |
| Flammability (solid, gas)                  | : No data available   |
| Vapour pressure                            | : No data available   |
| Relative vapour density at 20 °C           | : No data available   |
| Relative density                           | : No data available   |
| Density                                    | : 868 g/l   |
| Solubility                                 | : Slightly soluble, the product remains on the water surface.<br>Water: Negligible. |
| Log Pow                                    | : No data available   |
| Viscosity, kinematic                       | : 75 mm <sup>2</sup> /s 40C   |
| Viscosity, dynamic                         | : No data available   |
| Explosive properties                       | : No data available   |
| Oxidising properties                       | : No data available   |
| Explosive limits                           | : 1 - 6 vol %   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal use.

### 10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Oxidizing substances. Acids and bases.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Mineral oil (64742-54-7)   |                |
|----------------------------|----------------|
| LD50 oral                  | > 5000 mg/kg   |
| LD50 dermal rabbit         | > 5000 mg/kg   |
| LC50 inhalation rat (mg/l) | > 5000 mg/l/4h |

Skin corrosion/irritation : Not classified

pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: Not applicable

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

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|                        |                  |
|------------------------|------------------|
| Carcinogenicity        | : Not classified |
| Reproductive toxicity  | : Not classified |
| STOT-single exposure   | : Not classified |
| STOT-repeated exposure | : Not classified |

### Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

|                            |                               |
|----------------------------|-------------------------------|
| NOAEL (oral, rat, 90 days) | 150 mg/kg bodyweight/day @28d |
|----------------------------|-------------------------------|

Aspiration hazard : Not classified

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|                      |                           |
|----------------------|---------------------------|
| Viscosity, kinematic | 75 mm <sup>2</sup> /s 40C |
| Hydrocarbon          | Yes                       |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Polysulfides, di-tert-Bu (68937-96-2)

|                                |                             |
|--------------------------------|-----------------------------|
| EC50 Daphnia 1                 | 63 mg/l @2d                 |
| EC50 other aquatic organisms 1 | > 100 mg/l @3d              |
| EC50 72h algae (1)             | ≈ 63 mg/l @2d Waterflea     |
| EC50 72h algae (2)             | > 100 mg/l @3d              |
| EC50 96h algae (1)             | > 10000 mg/l @0.1d sediment |

#### Mineral oil (64742-54-7)

|                    |                                    |
|--------------------|------------------------------------|
| LC50 fish 1        | > 100 mg/l Pimephales promelas @4d |
| EC50 Daphnia 1     | > 10000 mg/l                       |
| EC50 Daphnia 2     | > 10 mg/l @21d                     |
| EC50 96h algae (1) | > 100 mg/l 3d - Chlorophyta        |
| NOEC (chronic)     | > 10 mg/l 21d                      |

### Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

|                                |                                       |
|--------------------------------|---------------------------------------|
| LC50 fish 1                    | 24 mg/l @4d Oncorhynchus mykiss       |
| LC50 fish 2                    | 8,5 mg/l @4d Pimephales promelas      |
| EC50 Daphnia 1                 | 91,4 mg/l @2d                         |
| EC50 Daphnia 2                 | 0,66 mg/l @21 d                       |
| EC50 other aquatic organisms 1 | 6,4 mg/l @4d selenastrum capricomutum |
| EC50 72h algae (1)             | 91,4 mg/l @2d waterflea               |
| EC50 72h algae (2)             | 0,66 mg/l @21d waterflea              |
| EC50 96h algae (1)             | 2433 mg/l @0.1d slib                  |
| NOEC chronic crustacea         | 0,12 mg/l @21 d waterflea             |
| NOEC chronic algae             | 1,7 mg/l @4d selenastrum capricomutum |

### 12.2. Persistence and degradability

#### Marine Gear Oil Sterndrive High Performance

|                               |  |
|-------------------------------|--|
| Persistence and degradability | Not soluble in water, so only minimally biodegradable. |
|-------------------------------|--|

#### Polysulfides, di-tert-Bu (68937-96-2)

|                |                    |
|----------------|--------------------|
| Biodegradation | 13 % @28 d OECD TG |
|----------------|--------------------|

#### Mineral oil (64742-54-7)

|                |                          |
|----------------|--------------------------|
| Biodegradation | 31 % 28d - OECD TG 301 B |
|----------------|--------------------------|

### Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

|                 |                                   |
|-----------------|-----------------------------------|
| BOD (% of ThOD) | 3,6 % ThOD @28d inherent sediment |
| Biodegradation  | 7,4 % Sturm (28d)                 |

### 12.3. Bioaccumulative potential

#### Polysulfides, di-tert-Bu (68937-96-2)

|         |                                  |
|---------|----------------------------------|
| Log Pow | 6 octanol-watercoefficient @0.1d |
|---------|----------------------------------|

### 12.4. Mobility in soil

No additional information available

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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Waste disposal according to official state regulations.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                     | IMDG  |
|---|---|
| <b>14.1. UN number</b>                  |   |
| Not applicable                          | Not applicable  |
| <b>14.2. UN proper shipping name</b>    |   |
| Not applicable                          | Not applicable  |
| <b>14.3. Transport hazard class(es)</b> |   |
| Not applicable                          | Not applicable  |
| Not applicable                          | Not applicable  |
| <b>14.4. Packing group</b>              |   |
| Not applicable                          | Not applicable  |
| <b>14.5. Environmental hazards</b>      |   |
| Dangerous for the environment : No      | Dangerous for the environment : No<br>Marine pollutant : No |
| No supplementary information available  |   |

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information

Indication of changes:

|      |  |          |  |
|------|--|----------|--|
|      | Hydrocarbon                            | Added    |  |
| 3    | Composition/information on ingredients | Modified |  |
| 12.1 | Ecology - water                        | Removed  |  |
| 12.6 | Other adverse effects                  | Removed  |  |
| 16   | Abbreviations and acronyms             | Added    |  |

Abbreviations and acronyms:

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|  |  |
|--|--|
|  | ACGIH: American Conference of Governmental Industrial Hygienists. TWA: Time Weighted Average. TLV: Threshold Limit Value. ASTM: American Society for Testing and Materials . ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route . RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail . ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin. IMDG: International Maritime Dangerous Goods. ICAO: International Civil Aviation Organization . IATA: International Air Transport Association. STEL: Short Term Exposure Limit. LD50: median Lethal Dose for 50% of subjects. ATE: acute toxicity estimate. LC50: median Lethal Concentration for 50% of subjects. EC50: concentration producing 50% effect. |
|--|--|

### Full text of H- and EUH-statements:

|                     |  |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4  |
| Aquatic Chronic 2   | Hazardous to the aquatic environment — Chronic Hazard, Category 2        |
| Aquatic Chronic 3   | Hazardous to the aquatic environment — Chronic Hazard, Category 3        |
| Aquatic Chronic 4   | Hazardous to the aquatic environment — Chronic Hazard, Category 4        |
| Asp. Tox. 1         | Aspiration hazard, Category 1  |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1                            |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                            |
| Repr. 2             | Reproductive toxicity, Category 2  |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2                                    |
| Skin Sens. 1        | Skin sensitisation, Category 1   |
| H302                | Harmful if swallowed.  |
| H304                | May be fatal if swallowed and enters airways.                            |
| H315                | Causes skin irritation.  |
| H317                | May cause an allergic skin reaction.                                     |
| H318                | Causes serious eye damage.   |
| H319                | Causes serious eye irritation.   |
| H361fd              | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H411                | Toxic to aquatic life with long lasting effects.                         |
| H412                | Harmful to aquatic life with long lasting effects.                       |
| H413                | May cause long lasting harmful effects to aquatic life.                  |

### SDS MPM REACH

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*