

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 17-5-2018 Revision date: 27-9-2022 Supersedes version of: 7-1-2019 Version: 1.3

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Uni Gear 80W90 LD/LS  
Product code : NS-A.20.03  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Industrial use, Professional use, Consumer use  
Use of the substance/mixture : Transmission oil  
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

Maxol Lubricants Limited  
Unit D Airport Business Campus  
Santry, Dublin  
D09 YW74

T 00353 (1)806 0300

#### 1.4. Emergency telephone number

| Country        | Organisation/Company  | Address                                  | Emergency number   | Comment                              |
|----------------|---|--|--|--------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                                  | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| United Kingdom | National Poisons Information Service<br>(Cardiff Centre)<br>University Hospital Llandough | Penlan Road<br>CF64 2XX Llandough        | 0344 892 0111  | Only for healthcare<br>professionals |

### SECTION 2: Hazards identification

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

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

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412  
Full text of H- and EUH-statements: see section 16

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

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Signal word (CLP) : -  
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|                                |   |
|--------------------------------|---|
| Precautionary statements (CLP) | : P102 - Keep out of reach of children.<br>P273 - Avoid release to the environment.<br>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| EUH-statements                 | : EUH208 - Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), Magnesium metaborate. May produce an allergic reaction.                                |

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component  |   |
|--|---|
| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : Highly refined mineral oils and additives.

| Name  | Product identifier   | %         | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                |
|---|--|-----------|--|
| Polysulfides, di-tert-Bu  | CAS-No.: 68937-96-2<br>EC-No.: 273-103-3<br>REACH-no: 01-2119540515-43                               | 2,5 – 5   | Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412   |
| Blend of mineral oils *<br>(*)(Note L)  | -  | 1 – 5     | Asp. Tox. 1, H304  |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | EC-No.: 931-384-6<br>REACH-no: 01-2119493620-38  | 0,3 – 2,5 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |
| Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl                               | EC-No.: 943-540-0<br>REACH-no: 01-2120120371-74  | 0,3 – 2,5 | Skin Sens. 1B, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                        |
| Distillates (petroleum), solvent-dewaxed light paraffinic<br>substance with a Community workplace exposure limit (Note L)                     | CAS-No.: 64742-56-9<br>EC-No.: 265-159-2<br>EC Index-No.: 649-469-00-9<br>REACH-no: 01-2119480132-48 | < 1       | Asp. Tox. 1, H304  |
| Magnesium metaborate  | CAS-No.: 13703-82-7<br>EC-No.: 237-235-5<br>REACH-no: 01-2120769073-53                               | < 1       | Skin Sens. 1B, H317  |

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Name   | Product identifier   | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-------|---|
| 4-methylpentan-2-ol<br>substance with national workplace exposure limit(s)<br>(GB, IE) | CAS-No.: 108-11-2<br>EC-No.: 203-551-7<br>EC Index-No.: 603-008-00-8<br>REACH-no: 01-2119473979-13 | < 0,1 | Flam. Liq. 3, H226<br>STOT SE 3, H335                           |

| Specific concentration limits:  |  |   |
|---|--|---|
| Name  | Product identifier   | Specific concentration limits   |
| Polysulfides, di-tert-Bu  | CAS-No.: 68937-96-2<br>EC-No.: 273-103-3<br>REACH-no: 01-2119540515-43                             | ( 46 <C ≤ 100) Skin Sens. 1B, H317  |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | EC-No.: 931-384-6<br>REACH-no: 01-2119493620-38  | ( 9,39 <C ≤ 100) Skin Sens. 1, H317<br>( 50 <C ≤ 100) Eye Dam. 1, H318<br>( 50 <C ≤ 100) Eye Irrit. 2, H319 |
| Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl                               | EC-No.: 943-540-0<br>REACH-no: 01-2120120371-74  | ( 13 ≤C < 100) Skin Sens. 1B, H317  |
| 4-methylpentan-2-ol   | CAS-No.: 108-11-2<br>EC-No.: 203-551-7<br>EC Index-No.: 603-008-00-8<br>REACH-no: 01-2119473979-13 | ( 25 ≤C < 100) STOT SE 3, H335  |

Comments : The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

\*: contains one or more of the following CAS-numbers (REACH registration numbers):

64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30), 64741-95-3 (01-2119487081-40), 64741-96-4 (01-2119483621-38), 64741-97-5 (01-2119480374-36), 64742-01-4 (01-2119488707-21), 64742-52-5 (01-2119467170-45), 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-57-0 (01-2119489287-22), 64742-62-7 (01-2119480472-38), 64742-65-0 (01-2119471299-27), 64742-71-8 (01-2119485040-48), 72623-85-9 (01-2119555262-43), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 74869-22-0 (01-2119495601-36)

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : No additional information available.

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

Treat symptomatically.

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Combustible liquid.  
Hazardous decomposition products in case of fire : Toxic fumes may be released. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.  
Storage temperature : 0 – 40 °C

#### 7.3. Specific end use(s)

No additional information available

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

| Uni Gear 80W90 LD/LS  |   |
|---|---|
| EU - Indicative Occupational Exposure Limit (IOEL)  |   |
| Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended | 5 mg/m <sup>3</sup> - ACGIH TLV (inhalable fraction).   |
| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)  |   |
| EU - Indicative Occupational Exposure Limit (IOEL)  |   |
| IOEL TWA  | 5 mg/m <sup>3</sup>   |
| 4-methylpentan-2-ol (108-11-2)  |   |
| Ireland - Occupational Exposure Limits  |   |
| Local name  | Methyl isobutyl carbinol [4-Methylpentan-2-ol]  |
| OEL TWA [1]   | 100 mg/m <sup>3</sup>   |
| OEL TWA [2]   | 25 ppm  |
| OEL STEL  | 160 mg/m <sup>3</sup>   |
| OEL STEL [ppm]  | 40 ppm  |
| Remark  | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body)                           |
| Regulatory reference  | Chemical Agents Code of Practice 2021   |
| United Kingdom - Occupational Exposure Limits   |   |
| Local name  | 4-Methylpentan-2-ol   |
| WEL TWA (OEL TWA) [1]   | 106 mg/m <sup>3</sup>   |
| WEL TWA (OEL TWA) [2]   | 25 ppm  |
| WEL STEL (OEL STEL)   | 170 mg/m <sup>3</sup>   |
| WEL STEL (OEL STEL) [ppm]   | 40 ppm  |
| Remark  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference  | EH40/2005 (Fourth edition, 2020). HSE   |

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

| Eye protection |                      |                 |          |
|----------------|----------------------|-----------------|----------|
| Type           | Field of application | Characteristics | Standard |
| Safety glasses | Droplet              | clear           | EN 166   |

##### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

| Hand protection |                      |                   |                |             |            |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Type            | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥0.35          |             | EN ISO 374 |

##### Other skin protection

##### Materials for protective clothing:

Wear suitable protective clothing

##### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                 |                  |
|-----------------|------------------|
| Physical state  | : Liquid         |
| Colour          | : brown.         |
| Odour           | : Not available  |
| Odour threshold | : Not available  |
| Melting point   | : Not applicable |

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|   |  |
|---|--|
| Freezing point                                  | : -36 °C - ASTM D5950 (pour point)                 |
| Boiling point                                   | : Not available                                    |
| Flammability                                    | : Not applicable                                   |
| Explosive properties                            | : Presents no particular fire or explosion hazard. |
| Explosive limits                                | : Not available                                    |
| Lower explosion limit                           | : Not available                                    |
| Upper explosion limit                           | : Not available                                    |
| Flash point                                     | : 204 °C - ASTM D92 (COC)                          |
| Auto-ignition temperature                       | : Not available                                    |
| Decomposition temperature                       | : Not available                                    |
| pH  | : Not available                                    |
| Viscosity, kinematic                            | : 143 mm²/s (40 °C) - ASTM D7279                   |
| Solubility                                      | : Water: Insoluble / Slightly miscible             |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                    |
| Vapour pressure                                 | : Not available                                    |
| Vapour pressure at 50 °C                        | : Not available                                    |
| Density   | : 0,901 kg/l (15 °C) - ASTM D4052                  |
| Relative density                                | : Not available                                    |
| Relative vapour density at 20 °C                | : Not available                                    |
| Particle characteristics                        | : Not applicable                                   |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts violently with (strong) oxidizers.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No decomposition if stored normally.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|  |  |
|--|--|
| <b>Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)</b>  |  |
| LD50 oral rat  | > 5000 mg/kg   |
| LD50 dermal rabbit   | > 5000 mg/kg   |
| LC50 Inhalation - Rat (Dust/Mist)  | 5,53 mg/l/4h   |
| <b>Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)</b> |  |
| LD50 oral rat  | 2000 mg/kg (OECD 401 method)   |
| <b>Blend of mineral oils *</b>   |  |
| LD50 oral rat  | > 5000 mg/kg Data from similar product   |
| LD50 dermal rabbit   | > 5000 mg/kg Data from similar product   |
| LC50 Inhalation - Rat (Dust/Mist)  | > 5 mg/l/4h Data from similar product  |
| <b>Magnesium metaborate (13703-82-7)</b>   |  |
| LD50 oral rat  | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)      |
| LD50 dermal rat  | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))   |
| <b>4-methylpentan-2-ol (108-11-2)</b>  |  |
| LD50 oral rat  | 2590 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2260 - 2970  |
| LC50 Inhalation - Rat (Dust/Mist)  | > 16 mg/l/4h   |
| <b>Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl</b>                               |  |
| LD50 oral rat  | 2000 – 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure) |
| LD50 dermal rat  | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Remarks on results: other:                                       |
| Skin corrosion/irritation  | : Not classified   |
| <b>Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)</b>  |  |
| pH   | 7  |
| Serious eye damage/irritation  | : Not classified   |
| <b>Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)</b>  |  |
| pH   | 7  |
| Respiratory or skin sensitisation  | : Not classified   |
| Germ cell mutagenicity   | : Not classified   |
| Carcinogenicity  | : Not classified   |
| Reproductive toxicity  | : Not classified   |
| STOT-single exposure   | : Not classified   |
| <b>4-methylpentan-2-ol (108-11-2)</b>  |  |
| STOT-single exposure   | May cause respiratory irritation.  |
| STOT-repeated exposure   | : Not classified   |
| <b>Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)</b>  |  |
| LOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight/day   |



# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|  |   |
|--|---|
| <b>Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)</b>  |   |
| NOAEL (subchronic, oral, animal/male, 90 days)   | ≥ 2000 mg/kg bodyweight   |
| NOAEL (subchronic, oral, animal/female, 90 days)   | ≥ 2000 mg/kg bodyweight   |
| <b>Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)</b> |   |
| NOAEL (oral, rat, 90 days)   | 150 mg/kg bodyweight Animal: rat  |
| <b>Magnesium metaborate (13703-82-7)</b>   |   |
| NOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| <b>4-methylpentan-2-ol (108-11-2)</b>  |   |
| NOAEC (inhalation, rat, vapour, 90 days)   | 3698 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)   |

Aspiration hazard : Not classified

|   |                                |
|---|--------------------------------|
| <b>Uni Gear 80W90 LD/LS</b>   |                                |
| Viscosity, kinematic  | 143 mm²/s (40 °C) - ASTM D7279 |
| <b>Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)</b> |                                |
| Viscosity, kinematic  | < 20,5 mm²/s                   |
| Aliphatic, alicyclic or aromatic hydrocarbon                                  | Yes                            |
| <b>Blend of mineral oils *</b>  |                                |
| Viscosity, kinematic  | < 20,5 mm²/s                   |
| Aliphatic, alicyclic or aromatic hydrocarbon                                  | Yes                            |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.  
Not rapidly degradable

|  |  |
|--|--|
| <b>Polysulfides, di-tert-Bu (68937-96-2)</b>   |  |
| EC50 - Crustacea [1]   | 63 mg/l  |
| EC50 72h - Algae [1]   | 0,838 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1]   | > 100 mg/l   |
| <b>Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)</b> |  |
| LC50 - Fish [1]  | 24 mg/l (Oncorhynchus mykiss, 96h) (OECD 203 method)   |
| LC50 - Fish [2]  | 8,5 mg/l (Pimephales promelas, 96h) (OECD 203 method)  |

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|  |  |
|--|--|
| <b>Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)</b> |  |
| EC50 - Crustacea [1]   | 91,4 mg/l (Daphnia magna, 48h) (OECD 202 method)   |
| EC50 96h - Algae [1]   | 6,4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [2]   | 15 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |
| NOEC chronic crustacea   | 0,12 mg/l (Daphnia magna, 21d) (OECD 211 method)   |
| NOEC chronic algae   | 1,7 mg/l (Pseudokirchnerella subcapitata, 96h) (OECD 201 method)   |
| <b>Blend of mineral oils *</b>   |  |
| LC50 - Fish [1]  | > 100 mg/l Data from similar product   |
| EC50 - Crustacea [1]   | > 10000 mg/l Data from similar product   |
| EC50 72h - Algae [1]   | > 100 mg/l Data from similar product   |
| NOEC chronic crustacea   | > 10 mg/l  |
| NOEC chronic algae   | > 10 mg/l (Water flea (Daphnia magna), 21 d)   |
| <b>4-methylpentan-2-ol (108-11-2)</b>  |  |
| LC50 - Fish [1]  | > 92,4 mg/l Test organisms (species): Pimephales promelas  |
| EC50 - Crustacea [1]   | 337 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]   | 139 mg/l   |
| NOEC (chronic)   | 288 mg/l   |
| <b>Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl</b>                               |  |
| EC50 - Crustacea [1]   | 8,3 mg/l (48h, Daphnia magna)  |
| ErC50 algae  | 0,75 mg/l (3d, Pseudokirchneriella subcapitat)   |
| NOEC chronic algae   | 0,32 mg/l (3d, Pseudokirchneriella subcapitat)   |
| <b>12.2. Persistence and degradability</b>   |  |
| <b>Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)</b>  |  |
| Persistence and degradability  | Potentially biodegradable.   |
| <b>Polysulfides, di-tert-Bu (68937-96-2)</b>   |  |
| Biodegradation   | 13 % (Sturm, 28 d)   |
| <b>Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)</b> |  |
| Biodegradation   | 3,6 % Sturm (28 d) [ASTM D-5864-95]  |
| <b>4-methylpentan-2-ol (108-11-2)</b>  |  |
| BOD (% of ThOD)  | 69 % ThOD (4 days)   89% ThOD (28 days)  |
| <b>Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl</b>                               |  |
| Biodegradation   | 24 % 28d - (OECD 301B method)  |

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.3. Bioaccumulative potential

#### Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | > 3 |
|---|-----|

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

|   |                                      |
|---|--------------------------------------|
| Partition coefficient n-octanol/water (Log Kow) | 6 (Octanol/water coefficient, 0,1 d) |
|---|--------------------------------------|

#### Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

|   |                                |
|---|--------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | < 0,3 (40°C) (OECD 117 method) |
|---|--------------------------------|

#### 4-methylpentan-2-ol (108-11-2)

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 1,9 |
|---|-----|

#### Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl

|   |            |
|---|------------|
| Partition coefficient n-octanol/water (Log Kow) | 5,14 @25°C |
|---|------------|

### 12.4. Mobility in soil

#### Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)

|                |                     |
|----------------|---------------------|
| Ecology - soil | Insoluble in water. |
|----------------|---------------------|

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.                     |
| European List of Waste (LoW) code          | : 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils                 |

## SECTION 14: Transport information

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

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR                                    | IMDG           | IATA           | ADN            | RID            |
|--|----------------|----------------|----------------|----------------|
| <b>14.4. Packing group</b>             |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>     |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available |                |                |                |                |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

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

##### REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) |   |
|--|---|
| Reference code                         | Applicable on   |
| 3.                                     | Polysulfides, di-tert-Bu ; Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)                        |
| 3(b)                                   | Polysulfides, di-tert-Bu ; Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)                        |
| 3(c)                                   | Uni Gear 80W90 LD/LS ; Polysulfides, di-tert-Bu ; Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) |

##### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

##### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

### VOC Directive (2004/42)

VOC content : 0 %

### Biocide Regulation (528/2012)

Child-resistant fastening : Not applicable

Tactile warning : Not applicable

### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

**For the following substances of this mixture a chemical safety assessment has been carried out:**

Distillates (petroleum), solvent-dewaxed light paraffinic

## SECTION 16: Other information

| Indication of changes |  |          |          |
|-----------------------|--|----------|----------|
| Section               | Changed item                                     | Change   | Comments |
|                       | Supersedes                                       | Modified |          |
|                       | Revision date                                    | Modified |          |
| 1.2                   | Use of the substance/mixture                     | Added    |          |
| 1.2                   | Function or use category                         | Added    |          |
| 4.1                   | First-aid measures after ingestion               | Modified |          |
| 4.2                   | Symptoms/effects                                 | Modified |          |
| 5.2                   | Hazardous decomposition products in case of fire | Modified |          |
| 9.1                   | Solubility in water                              | Added    |          |
| 10.3                  | Possibility of hazardous reactions               | Modified |          |
| 12.1                  | Ecology - general                                | Modified |          |
| 15.1                  | REACH Annex XVII                                 | Modified |          |
| 16                    | Abbreviations and acronyms                       | Modified |          |

### Abbreviations and acronyms:

|     |   |
|-----|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road             |

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| ATE                         | Acute Toxicity Estimate  |
| BCF                         | Bioconcentration factor  |
| BLV                         | Biological limit value   |
| BOD                         | Biochemical oxygen demand (BOD)  |
| COD                         | Chemical oxygen demand (COD)   |
| DMEL                        | Derived Minimal Effect level   |
| DNEL                        | Derived-No Effect Level  |
| EC-No.                      | European Community number  |
| EC50                        | Median effective concentration   |
| EN                          | European Standard  |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration  |
| LD50                        | Median lethal dose   |
| LOAEL                       | Lowest Observed Adverse Effect Level   |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |

# Maxol Uni Gear 80W90 LD

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Asp. Tox. 1                         | Aspiration hazard, Category 1   |
| EUH208                              | Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), Magnesium metaborate. May produce an allergic reaction. |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1   |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2   |
| Flam. Liq. 3                        | Flammable liquids, Category 3   |
| H226                                | Flammable liquid and vapour.  |
| H302                                | Harmful if swallowed.   |
| H304                                | May be fatal if swallowed and enters airways.   |
| H317                                | May cause an allergic skin reaction.  |
| H318                                | Causes serious eye damage.  |
| H319                                | Causes serious eye irritation.  |
| H335                                | May cause respiratory irritation.   |
| H400                                | Very toxic to aquatic life.   |
| H411                                | Toxic to aquatic life with long lasting effects.  |
| H412                                | Harmful to aquatic life with long lasting effects.  |
| Skin Sens. 1                        | Skin sensitisation, Category 1  |
| Skin Sens. 1B                       | Skin sensitisation, category 1B   |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation  |

Safety Data Sheet (SDS), EU

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.