

## 1 Identification

- **Product identifier**
- **Trade name:** GEAR OIL HYPOID SAE 80W/90
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Gear Oil  
Only for proper handling.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
  
MOTOREX AG  
Bern–Zürich–Strasse 31, Postfach  
CH–4901 Langenthal  
Tel. +41 (0)62 919 75 75  
www.motorex.com  
  
A1 Accessory Imports  
60-62 Burchill St.  
Loganholme  
4129 QLD  
Australia  
Phone : 07 3451 1300
- **Further information obtainable from:** msds@motorex.com
- **Emergency telephone number:**  
In case of a medical emergency following exposure to a chemical, call Poisons Information Centre  
Australia 13 11 26

## 2 Hazard(s) Identification

- **Classification of the substance or mixture**  
The product is not classified, according to the Globally Harmonised System (GHS).

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- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition and Information on Ingredients

- **Chemical characterisation:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

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**· Dangerous components:**

CAS: 68937-96-2 EINECS: 273-103-3	polysulfides, di-tert-Bu Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1-<2.5%
EC number: 931-384-6	Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched) Acute Tox. 3, H301; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317	≥0.25-<1%

**· Additional information:**

Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346.  
For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
The recommended storage temperature is (deg.C): ≤50°C

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- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · DNELs

##### 68937-96-2 polysulfides, di-tert-Bu

Oral	DNEL/general population/Systemic effects/Long-term	0.167 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Local Effects / Long-term	173.75 mg/cm2 (worker)
	DNEL / Workers / Systemic effects / Long-term	3.33 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	1.66 mg/kg/24h (consumer)
Inhalative	DNEL/general population/Local effects/Long-term	86.88 mg/cm2 (consumer)
	DNEL / Workers / Systemic effects / Long-term	14.5 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	2.6 mg/m3 (consumer)
<b>Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)</b>		
Oral	DNEL/general population/Systemic effects/Long-term	0.25 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	12.5 mg/kg/24h (worker)
	DNEL/general popul/Local effects/acute-short term	0.0235 mg/cm2 (consumer)
	DNEL/general population/Systemic effects/Long-term	6.25 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	8.56 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	2.2 mg/m3 (consumer)

#### · PNECs

##### 68937-96-2 polysulfides, di-tert-Bu

Oral	PNEC / Predators / Secondary poisoning	6.66 mg/kg food (aquatic organisms)
	PNEC / Aquatic organisms / Freshwater	0.00024-0.063 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.000024-0.0063 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	4.51-45 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	0.94-94,130 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	0.094-9.413 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	1,513-311,504 mg/kg (terrestrial organisms)
<b>Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)</b>		
Oral	PNEC / Predators / Secondary poisoning	10 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	0.0012 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	0.00012 mg/l (aquatic organisms)
	PNEC / Aquatic org / intermittent releases (freshwater)	0.085 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	24.33 mg/l (aquatic organisms)

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PNEC / Aquatic organisms / Sediment (freshwater)	14.4 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	1.44 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil	2.94 mg/kg (terrestrial organisms)

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**  
Not necessary if room is well-ventilated.  
Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

## 9 Physical and Chemical Properties

- **General Information**
- **Appearance:**
- **Form:** Fluid
- **Colour:** Yellow-brown
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** Undetermined.
- **Flash point:** >220 °C
- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 0.891 g/cm<sup>3</sup> (ASTM D 4052)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.

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- |  |  |
|--|--|
| <b>· Solubility in / Miscibility with</b>        |  |
| · <b>water:</b>                                  | Not miscible or difficult to mix.          |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| · <b>Dynamic:</b>                                | Not determined.                            |
| · <b>Kinematic:</b>                              | 147 mm <sup>2</sup> /s @ 40 °C             |
| · <b>Solvent separation test:</b>                |  |
| · <b>VOC (EC)</b>                                | 0.00 %                                     |
| · <b>Other information</b>                       | No further relevant information available. |

## 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

### 68937-96-2 polysulfides, di-tert-Bu

Oral	LD0	2,000 mg/kg (rat)
	NOAEL	50-100 mg/kg/24h (rat)
	LOAEL	200-300 mg/kg/24h (rat)
Dermal	LD0	2,000 mg/kg (rat)
Inhalative	NOAEC	196 ppm (rat)

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

Oral	LD50	2,000 mg/kg (rat)
	NOEL	50 mg/kg/24h (rat)
	NOAEL	150 mg/kg/24h (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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## 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

**68937-96-2 polysulfides, di-tert-Bu**

LC50	0.088 mg/l/96h (fish)
LC0	0.088 mg/l/96h (fish)
EC50	0.299 g/kg/28d (sediment)
EC50	0.27 mg/l/24h (aquatic invertebrates)
EC10	0.092-0.472 mg/l/72h (algae / cyanobacteria)
EC50	0.299-2.45 mg/l/72h (algae / cyanobacteria)
EC50	0.24 mg/l/48h (aquatic invertebrates)
EL50	63 mg/l/48h (aquatic invertebrates)
EL50	100 mg/l/72h (algae / cyanobacteria)
NOEC	0.094-0.388 g/kg/28d (sediment)
NOEC	0.1 mg/l/72h (algae / cyanobacteria)
NOEC	0.088 mg/l/96h (fish)
NOEC	45.1 mg/l/28d (microorganisms)
NOELR	18 mg/l/48h (aquatic invertebrates)
LOELR	32 mg/l/96h (aquatic invertebrates)
LOEC	0.12-0.32 mg/l/48h (algae / cyanobacteria)
LOEC	0.178 mg/l/21d (sediment)
LOEC	0.088 mg/l/72h (fish)

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

EC50	2,433 mg/l/3h (microorganisms)
EC50	6.4-15 mg/l/96h (algae / cyanobacteria)
LL50	24 mg/l/96h (fish)
EL50	91.4 mg/l/48h (aquatic invertebrates)
EL50	0.66 mg/l/21d (aquatic invertebrates)
NOEC	1.7-3.3 mg/l/96h (algae / cyanobacteria)
NOELR	3.2 mg/l/96h (fish)

- **Persistence and degradability** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential**

**68937-96-2 polysulfides, di-tert-Bu**

Partition coefficient	5.6 [---] (log Kow) (Bioaccumulation)
Biodegradability	13 % (28d) (Biodegradability) (OECD 301 B)

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

Partition coefficient	0.3-7.1 [---] (log Kow) (Bioaccumulation)
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- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA**

Not classified as hazardous for transport

· **UN proper shipping name**

· **ADG, IMDG, IATA**

Not classified as hazardous for transport

· **Transport hazard class(es)**

· **ADG, ADN, IMDG, IATA**

· **Class**

Not classified as hazardous for transport

· **Packing group**

· **ADG, IMDG, IATA**

Not classified as hazardous for transport

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

Not classified as hazardous for transport

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**

64742-57-0 Residual oils (petroleum), hydrotreated

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

68937-96-2 polysulfides, di-tert-Bu

8042-47-5 White mineral oil (petroleum)

95-38-5 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol

· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

*The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.*

*No special training instructions to ensure protection of human health and environment are required.*

- **purity requirement**
- **Relevant phrases**
  - H301 Toxic if swallowed.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
- **Department issuing SDS:** Abteilung Produktsicherheit
- **Contact:**
- **Abbreviations and acronyms:**
  - Acute Tox. 3: Acute toxicity – Category 3
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
  - Skin Sens. 1: Skin sensitisation – Category 1
- \* **Data compared to the previous version altered.**

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