



## 1 Identification

- **Product identifier**
- **Trade name:** TRIAL GEAR OIL 75W
- **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
- **Information department:** msds@motorex.com
- **Emergency telephone number:**  
USA + Kanada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
Aquatic Acute 3 H402 Harmful to aquatic life.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**  
  
  
GHS07 GHS08
- **Signal word** Warning
- **Hazard-determining components of labeling:**  
Polysulfides, di-tert-Bu  
Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched)  
Magnesium metaborate
- **Hazard statements**  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H402 Harmful to aquatic life.
- **Precautionary statements**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 If on skin: Wash with plenty of water.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P321 Specific treatment (see on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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P363 Wash contaminated clothing before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0  
 Fire = 1  
 Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = \*0  
 Fire = 1  
 Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

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

- **Dangerous components:**

CAS: 64742-54-7 EINECS: 265-157-1 Index number: 649-467-00-8	Distillates (petroleum), hydrotreated heavy paraffinic Asp. Tox. 1, H304	≥70-≤90%
	Mineral oils (mixture) Asp. Tox. 1, H304	≥1-≤2.5%
EINECS: 273-103-3	Polysulfides, di-tert-Bu Skin Sens. 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	≥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; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Sens. 1, H317; Aquatic Acute 2, H401	1%
CAS: 13703-82-7 EINECS: 237-235-5	Magnesium metaborate Skin Sens. 1, H317	≥0.1-<1%
CAS: 597-82-0 EINECS: 209-909-9	O,O,O-Triphenylthiophosphat Repr. 2, H361	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.

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.

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- **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

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
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).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	140 mg/m <sup>3</sup>
108-94-1	cyclohexanone	60 ppm

- **PAC-2:**

64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	1,500 mg/m <sup>3</sup>
108-94-1	cyclohexanone	830 ppm

- **PAC-3:**

64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	8,900 mg/m <sup>3</sup>
108-94-1	cyclohexanone	5000* ppm

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.

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- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
The recommended storage temperature is (deg.C):  $\leq 50^{\circ}\text{C}$   
Keep receptacle tightly sealed.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components 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.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Do not inhale gases / fumes / aerosols.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.  
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:**



Protective gloves

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

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	Light yellow

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· <b>Odor:</b>	Pungent
· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Pouring point</b>	-45 °C (-49 °F)
· <b>Flash point:</b>	>220 °C (>428 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	0.85 g/cm <sup>3</sup> (7.093 lbs/gal) (ASTM D 4052)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <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>	23.2 mm <sup>2</sup> /s @ 40 °C (73.8 mm <sup>2</sup> /s @ 104 °F)
· <b>Solvent separation test</b>	
<b>VOC content:</b>	0.26-0.35 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **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.

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## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

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

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

Oral	LD50	5,000 mg/kg (rat)
	LOAEL	125 mg/kg/24h (rat)
Dermal	LD50	2,000-5,000 mg/kg (rabbit)
	NOAEL	150 mg/kg/24h (mouse) 30-2,000 mg/kg/24h (rat) 1,000 mg/kg/24h (rabbit)
Inhalative	LOAEL	100 mg/kg/24h (mouse)
	LC50 / 4h	2.18-5.53 mg/l (rat)
	NOEL	220 mg/m <sup>3</sup> (rat)
	NOAEL	980 mg/m <sup>3</sup> (rat)

### 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)

### 13703-82-7 Magnesium metaborate

Oral	LD50	2,000 mg/kg (rat)
	NOAEL	125 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

108-94-1	cyclohexanone	3
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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## 12 Ecological information

### · Toxicity

#### · Aquatic toxicity:

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

LL50	10,000 mg/l/96h (aquatic invertebrates)
	100 mg/l/96h (fish)
LL50	10,000 mg/l/72h (aquatic invertebrates)
LL50	10,000 mg/l/48h (aquatic invertebrates)
LL50	10,000 mg/l/24h (aquatic invertebrates)
EL50	10,000 mg/l/48h (aquatic invertebrates)

##### **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)

##### **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)

##### **13703-82-7 Magnesium metaborate**

EC10	50 mg/l (Alga)
EC50	1,000 mg/l/3h (microorganisms)
EC50	50 mg/l (Alga)
	50 mg/l (aquatic invertebrates)
	1,000 mg/l (microorganisms)
LC50	50 mg/l (fish)
LL50	50 mg/l/96h (fish)
EL50	50 mg/l/48h (aquatic invertebrates)
EL50	50 mg/l/24h (aquatic invertebrates)
EL50	50 mg/l/72h (algae / cyanobacteria)
NOEC	50 mg/l/96h (fish)

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NOEC	1,000 mg/l/3h (microorganisms)
NOELR	50 mg/l/72h (algae / cyanobacteria)
NOELR	50 mg/l/48h (aquatic invertebrates)

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

- **Behavior in environmental systems:**

- **Bioaccumulative potential**

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

Partition coefficient	>6 [---] (log Kow) (Bioaccumulation)
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**Polysulfides, di-tert-Bu**

Partition coefficient	5.6 [---] (log Kow) (Bioaccumulation)
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Biologische Abbaubarkeit	13 % (28d) (Biodegradability) (OECD 301 B)
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**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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**13703-82-7 Magnesium metaborate**

Bioconcentration factor (BCF)	0.893 BCF (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.

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

### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

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

Contact waste processors for recycling information.

- **Uncleaned packagings:**

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

### 14 Transport information

- **UN-Number**

- **DOT, ADR/RID/ADN, IMDG, IATA** Void

- **UN proper shipping name**

- **DOT, ADR/RID/ADN, IMDG, IATA** Void

- **Transport hazard class(es)**

- **DOT, ADR/RID/ADN, ADN, IMDG, IATA**

- **Class** Void

- **Packing group**

- **DOT, ADR/RID/ADN, IMDG, IATA** Void

- **Environmental hazards:**

Not applicable.

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· **Special precautions for user** Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **UN "Model Regulation":** Void

## 15 Regulatory information

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

No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

597-82-0	O,O,O-Triphenylthiophosphat	ACTIVE
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	ACTIVE
108-94-1	cyclohexanone	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

108-94-1	cyclohexanone	A3
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

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.

· **Department issuing SDS:** Abteilung Produktsicherheit

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- **Contact:**

- **Date of preparation / last revision** 03/15/2021 / 1.0

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 3: Acute toxicity – Category 3

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **\* Data compared to the previous version altered.**

US