

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

### 1.1 Product identifier

**Gear oil 75W - 80**  
**Article number: 40580**

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

#### 1.2.1 Relevant uses

Gearbox oil

#### 1.2.2 Uses advised against

None known.

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

**Company** Ferdinand Bilstein GmbH + Co. KG  
Wilhelmstr. 47  
58256 Ennepetal / GERMANY  
Phone +49 2333 911-0  
Fax +49 2333 911-444  
Homepage [www.febi.com](http://www.febi.com)  
E-mail [info@febi.com](mailto:info@febi.com)

#### Address enquiries to

**Technical information** [info@febi.com](mailto:info@febi.com)  
**Safety Data Sheet** [info@febi.com](mailto:info@febi.com)

### 1.4 Emergency telephone number

**Advisory body** Call NHS 111 or a doctor

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

**Hazard pictograms** none

**Signal word** none

**Hazard statements** none

**Precautionary statements** none

**Special labelling** EUH210 Safety data sheet available on request.

Contains: Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). EUH208 May produce an allergic reaction.

### 2.3 Other hazards

**Physico-chemical hazards** No particular hazards known.

**Human health dangers** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Environmental hazards** This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB). The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Other hazards** Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - <100	Distillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
	CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX
	GHS/CLP: Asp. Tox. 1: H304
25 - <50	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
	CAS: 72623-87-1, EINECS/ELINCS: 276-738-4, EU-INDEX: 649-483-00-5, Reg-No.: 01-2119474889-13-XXXX
	GHS/CLP: Asp. Tox. 1: H304
1 - <5	Polysulfides, di-tert-Bu
	CAS: 68937-96-2, EINECS/ELINCS: 273-103-3, Reg-No.: 01-2119540515-43-XXXX
	GHS/CLP: Skin Sens. 1B: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1
	SCL [%]: 6 - 100: Skin Sens. 1: H317
1 - <2,5	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
	EINECS/ELINCS: 931-384-6, Reg-No.: 01-2119493620-38-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
	SCL [%]: 50 - 100: Eye Irrit. 2: H319, 9,4 - 100: Skin Sens. 1: H317
0,1 - <1	O,O,O-Triphenyl phosphorothioate
	CAS: 597-82-0, EINECS/ELINCS: 209-909-9, Reg-No.: 01-2119979545-21-XXXX
	GHS/CLP: Aquatic Chronic 1: H410, M-Factor (chronic): 10
0,1 - <1	Magnesium metaborate
	CAS: 13703-82-7, EINECS/ELINCS: 237-235-5, Reg-No.: 01-2120769073-53-XXXX
	GHS/CLP: Skin Sens. 1B: H317
	SCL [%]: > 15: Skin Sens. 1: H317

#### Comment on component parts

For full text of H-statements: see SECTION 16.  
Contains less than 3% w/w DMSO-extract (only for mineral oils)

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Change soaked clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Do not induce vomiting. Consult a doctor immediately. Rinse out mouth and give plenty of water to drink.

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

Headache  
Irritant effects

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

Treat symptomatically.  
Forward this sheet to your doctor.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Foam, dry powder, water spray jet, carbon dioxide.
<b>Extinguishing media that must not be used</b>	Full water jet.

## 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.  
Carbon monoxide (CO)  
Sulphur oxides (SO<sub>x</sub>).  
Nitrogen oxides (NO<sub>x</sub>).

## 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

Some risk of slipping due to spillage of product.  
Forms slippery surfaces with water.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. oil binder).  
Dispose of absorbed material in accordance with the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No special measures necessary if used correctly.  
Use only in well-ventilated areas.  
Use solvent-resistant equipment.  
The product is combustible.  
Do not eat, drink or smoke when using this product.  
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.  
Use barrier skin cream.  
Contaminated work clothing should not be allowed out of the workplace.  
Take off contaminated clothing and wash before reuse.

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

Keep only in original container.  
Prevent penetration into the ground.  
Do not store together with oxidizing agents.  
Keep container in a well-ventilated place.  
Keep container tightly closed.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**

**Ingredients with occupational exposure limits to be monitored (UK)**

Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX
Long-term exposure: 5 mg/m <sup>3</sup> , oil mist
Short-term exposure (15-minute): 10 mg/m <sup>3</sup>

**Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)**

not relevant

**DNEL**

Substance
O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0
Industrial, inhalative, Long-term - systemic effects, 1.39 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 400 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 340 µg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 200 µg/kg bw/day
general population, oral, Long-term - systemic effects, 200 µg/kg bw/day
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 5.58 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day
general population, inhalative, Long-term - local effects, 1.19 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 740 µg/kg bw/day
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 5.58 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day
general population, oral, Long-term - systemic effects, 0.74mg/kg bw/day
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
Industrial, inhalative, Long-term - systemic effects, 4.28 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 12.5 mg/kg bw/day
Industrial, dermal, Long-term - local effects, 160 µg/cm <sup>2</sup>
Industrial, dermal, Acute - local effects, 160 µg/cm <sup>2</sup>
general population, inhalative, Long-term - systemic effects, 1.09 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 6.25 mg/kg bw/day
general population, dermal, Long-term - local effects, 160 µg/cm <sup>2</sup>
general population, dermal, Acute - local effects, 160 µg/cm <sup>2</sup>
general population, oral, Long-term - systemic effects, 250 µg/kg bw/day
Magnesium metaborate, CAS: 13703-82-7
Industrial, inhalative, Long-term - systemic effects, 5.49 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 7.78 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0.82 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 0.278 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0.28 mg/kg bw/day
Polysulfides, di-tert-Bu, CAS: 68937-96-2
There are no DNEL values established for the substance.

**PNEC**

Substance
O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0

freshwater, 0.17µg/L
seawater, 0.017µg/L
sewage treatment plants (STP), 10mg/L
sediment (freshwater), 33.9mg/kg sediment dw
sediment (seawater), 3.39mg/kg sediment dw
soil, 2.46mg/kg soil dw
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
oral (food), 9.33 mg/kg
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
oral (food), 9.33 mg/kg food
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
freshwater, 2.4 µg/L
seawater, 240 ng/L
sewage treatment plants (STP), 24.33 mg/L
sediment (freshwater), 12.9 µg/kg sediment dw
sediment (seawater), 1.29 µg/kg sediment dw
soil, 1.17 µg/kg soil dw
Magnesium metaborate, CAS: 13703-82-7
freshwater, 0.05 mg/L
seawater, 0.05 mg/L
sewage treatment plants (STP), 100 mg/L
sediment (freshwater), 1.38 mg/kg sediment dw
sediment (seawater), 1.38 mg/kg sediment dw
soil, 0.247 mg/kg soil dw
oral (food), 1.67 mg/kg food
Polysulfides, di-tert-Bu, CAS: 68937-96-2
freshwater, 0.255 µg/L
seawater, 25.5 ng/L
sewage treatment plants (STP), 45 mg/L
sediment (freshwater), 0,106 mg/kg sediment dw
soil, 0,211 mg/kg soil dw

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. General exposure limit for oil mist should be noted.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile butyl rubber (NBR) > 0,38 mm.; (EN 374-1/-2/-3).
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
<b>Thermal hazards</b>	No information available.
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	yellowish
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	not applicable
Flash point [°C]	190 (EN ISO 2592 )
Flammability	Not highly flammable.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm <sup>3</sup> ]	0,88 (DIN 51757) (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water [g/L]	insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	49,8 mm <sup>2</sup> /s 40°C (DIN 51562)
Relative vapour density	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.
Particle characteristics	not applicable

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.  
Reactions with strong alkalies.  
Reactions with strong acids.

### 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

Strong oxidizing agent.  
See SECTION 10.3.



#### **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information**

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

**Acute oral toxicity** Based on available data, the classification criteria are not met.

Product
ATE-mix, oral, > 5000 mg/kg
Substance
O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0
LC50, oral, Rat, >10,000 mg/kg bw, OECD 401
NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 408
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, oral, Rat, > 5000 mg/kg bw
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, oral, Rat, > 5000 mg/kg bw
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
LD50, oral, Rat, 2000 mg/kg bw (OECD 401)
NOAEL, oral, 150 mg/kg bw/day
Magnesium metaborate, CAS: 13703-82-7
LD50, oral, Rat, >2000 mg/kg bw (OECD 420)
Polysulfides, di-tert-Bu, CAS: 68937-96-2
LD50, oral, Rat, > 5000 mg/kg bw

**Acute dermal toxicity** Based on available data, the classification criteria are not met.

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0
LD50, dermal, Rat, >2,000 mg/kg bw, OECD 402
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, dermal, Rabbit, > 5000 mg/kg bw
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, dermal, Rabbit, > 5000 mg/kg bw
Magnesium metaborate, CAS: 13703-82-7
LD50, dermal, Rat, 2000 mg/kg bw

**Acute inhalational toxicity** Based on available data, the classification criteria are not met.

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LC50, inhalative, Rat, > 5 mg/L, 4h

**Serious eye damage/irritation** Based on the available information, the classification criteria are not fulfilled.  
 Non-irritant.  
 Classification was carried out based on substance-specific concentration limits.

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
Eye, non-irritating
Magnesium metaborate, CAS: 13703-82-7



Eye, no adverse effect observed
Polysulfides, di-tert-Bu, CAS: 68937-96-2
Eye, non-irritating

**Skin corrosion/irritation** No classification.  
 Calculation method

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
dermal, non-irritating
Magnesium metaborate, CAS: 13703-82-7
dermal, no adverse effect observed
Polysulfides, di-tert-Bu, CAS: 68937-96-2
dermal, non-irritating

**Respiratory or skin sensitisation** Non-sensitizing.  
 On basis of test data

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
dermal, non-sensitizing
Magnesium metaborate, CAS: 13703-82-7
dermal, sensitising
Polysulfides, di-tert-Bu, CAS: 68937-96-2
dermal, sensitising

**Specific target organ toxicity — single exposure** Based on the available information, the classification criteria are not fulfilled.

**Specific target organ toxicity — repeated exposure** Based on the available information, the classification criteria are not fulfilled.

Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day
NOAEL, dermal, Rabbit, 1000 mg/kg bw/day
NOAEC, inhalative, Rat, 980 mg/m <sup>3</sup> air
LOAEL, oral, Rat, 125 mg/kg bw/day
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
NOAEC, inhalative, Rat, 980 mg/m <sup>3</sup> air
LOAEL, oral, Rat, 125 mg/kg bw/day
Magnesium metaborate, CAS: 13703-82-7
NOAEL, oral, Rat, 125 mg/kg bw/day

**Mutagenicity** Based on the available information, the classification criteria are not fulfilled.

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
in vitro, negativ
Magnesium metaborate, CAS: 13703-82-7
in vivo, negativ
Polysulfides, di-tert-Bu, CAS: 68937-96-2
in vitro, negativ

**Reproduction toxicity** Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility), no adverse effect observed
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1

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NOAEL, oral, Rat, 1000 mg/kg bw/day

<p><b>- Development</b></p> <p><b>Carcinogenicity</b></p> <p><b>Aspiration hazard</b></p> <p><b>General remarks</b></p>	<p>No information available.</p> <p>Based on the available information, the classification criteria are not fulfilled.</p> <p>Based on the available information, the classification criteria are not fulfilled.</p> <p>Toxicological data of complete product are not available.</p>
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11.2 Information on other hazards

<p><b>11.2.1 Endocrine disrupting properties</b></p> <p><b>11.2.2 Other information</b></p>	<p>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</p> <p>none</p>
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**SECTION 12: Ecological information**

12.1 Toxicity

No classification due to toxicological investigations.

Substance
O,O,O-Triphenyl phosphorothioate, CAS: 597-82-0
EC50, (48h), Daphnia magna, >100 mg/L, OECD 202
IC50, (3h), Activated sewage sludge, >100 mg/L, OECD 209
EL50, (72h), Desmodesmus subspicatus, >100 mg/L, OECD 201
NOEC, (90d), Oncorhynchus mykiss, 1.7 µg/L
NOEC, (21d), Daphnia magna, >= 7.24 µg/L
LL50, (96h), Brachidanio rerio, >100 mg/L, OECD 203
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
EC50, (48h), > 10000 mg/l (Gammarus pulex), OECD 202
EC50, (72h), Algae, > 100 mg/l
NOEC, (72h), Pseudokirchneriella subcapitata, ≥ 100 mg/l, OECD 201
NOEC, (21d), Daphnia magna, 10 mg/l, OECD 211
LL50, (96h), Fish, > 100 mg/l, OECD 203
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
EL50, (48h), Invertebrates, > 10000 mg/L
LL50, (4d), Fish, > 100 mg/L
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
EC50, (96h), Algae, 6.4 - 15 mg/L
EC50, (3h), Microorganisms, 2.433 g/L
EL50, (48h), Invertebrates, 91.4 mg/L
EL50, (21d), Invertebrates, 660 - 910 µg/L
LL50, (96h), Fish, 24 mg/L
Magnesium metaborate, CAS: 13703-82-7
EL50, (24h), Daphnia magna, >50mg/l (OECD 202)
EL50, (72h), Pseudokirchneriella subcapitata, >50mg/l (OECD 201)
LL50, (96h), Oncorhynchus mykiss, >50mg/l (OECD 203)
Polysulfides, di-tert-Bu, CAS: 68937-96-2
LC50, (96h), Fish, 0,681 mg/L
EC50, (48h), Invertebrates, 0,255 mg/L
EC50, (72h), Algae, > 1,89 mg/L

## 12.2 Persistence and degradability

### Behaviour in environment compartments

Behaviour in sewage plant No information available.

### Biological degradability

Substance
Distillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
(28d), 31 %, OECD 301 F, The product is not readily biodegradable.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
(28d), 1 - 4 %, OECD 301 B, The product is not readily biodegradable.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).  
CAS: 597-82-0

## 12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

None known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

In according to RoHS!  
Disposal in an incineration plant in accordance with the regulations of the local authorities.

#### Waste no. (recommended)

130205\* mineral-based non-chlorinated engine, gear and lubricating oils

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

#### Waste no. (recommended)

150110\* packaging containing residues of or contaminated by hazardous substances

## SECTION 14: Transport information

### 14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 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

<b>EEC-REGULATIONS</b>	2008/98/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	SVHC (Candidate List of Substances of Very High Concern for authorisation) $\geq$ 0.1% CAS 597-82-0 - O,O,O-Triphenyl phosphorothioate
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq$ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq$ 0.1% of substances with the following restrictions. 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.
<b>TRANSPORT-REGULATIONS</b>	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)
<b>NATIONAL REGULATIONS (UK):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	not relevant

#### 15.2 Chemical safety assessment

not required

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.  
H302 Harmful if swallowed.  
  
H410 Very toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.  
H317 May cause an allergic skin reaction.  
H304 May be fatal if swallowed and enters airways.

## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Modified position

2.3, 8.1, 8.2, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 15.1, 15.2, 16.1, 16.2, 16.3