

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

**Gear oil SAE 80W-90 (GL-4/5)**  
**Article number: 170166, 170167, 170168, 196599**

**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)  
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**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

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Date printed 01.08.2025, Revision 01.08.2025

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**3.2 Mixtures**

The product is a mixture.

Range [%]	Substance
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**

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

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Change soaked clothing.

**Inhalation**

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

**Skin contact**

In case of contact with skin wash off immediately with plenty of water.  
Consult a doctor if skin irritation persists.

**Eye contact**

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.

**Ingestion**

Consult a doctor immediately.  
Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.

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

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****Suitable extinguishing media**

Foam, dry powder, water spray jet, carbon dioxide

**Extinguishing media that must not be used**

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

High risk of slipping due to leakage/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.

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.

Cloths contaminated with product should not be kept in trouser pockets.

Take off contaminated clothing and wash before reuse.

Contaminated work clothing should not be allowed out of the workplace.

### 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 tightly closed.

Keep container in a well-ventilated place.

### 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)

not relevant

#### 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
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, 0.17 µg/L
seawater, 0.017 µg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 33.9 mg/kg sediment dw
sediment (seawater), 3.39 mg/kg sediment dw
soil, 2.46 mg/kg soil dw
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

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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>	<p>Ensure adequate ventilation on workstation.</p> <p>General exposure limit for oil mist should be noted.</p> <p>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.</p>
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	<p>The details concerned are recommendations. Please contact the glove supplier for further information.</p> <p>Nitrile butyl rubber (NBR) &gt; 0,38 mm.; (EN 374-1/-2/-3).</p>
<b>Skin protection</b>	Light protective clothing.
<b>Other</b>	<p>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.</p> <p>Do not inhale gases/vapours/aerosols.</p> <p>Avoid contact with eyes and skin.</p>
<b>Respiratory protection</b>	not applicable
<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	brown
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]	No information available.
Flash point [°C]	200
Flammability	Not highly flammable.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	0,89 (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water [g/L]	immiscible
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	142 mm²/s (40°C)
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

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

No special measures necessary.

### 10.5 Incompatible materials

Strong oxidizing agent.  
 Strong basic compounds  
 Strong acids.

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

**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
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
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
Magnesium metaborate, CAS: 13703-82-7





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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
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
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.

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

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

**General remarks**  
Toxicological data of complete product are not available.

11.2 Information on other hazards

**11.2.1 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.

**11.2.2 Other information** none

## 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, (21d), Daphnia magna, >= 7.24 µg/L
NOEC, (90d), Oncorhynchus mykiss, 1.7 µg/L
LL50, (96h), Brachidanio rerio, >100 mg/L, OECD 203
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

### 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.

<b>Product</b>	In according to RoHS! Disposal in an incineration plant in accordance with the regulations of the local authorities.
<b>Waste no. (recommended)</b>	130205* mineral-based non-chlorinated engine, gear and lubricating oils
<b>Contaminated packaging</b>	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
<b>Waste no. (recommended)</b>	150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

<b>Transport by land according to ADR/RID</b>	not applicable
<b>Inland navigation (ADN)</b>	not applicable
<b>Marine transport in accordance with IMDG</b>	not applicable
<b>Air transport in accordance with IATA</b>	not applicable

14.2 UN proper shipping name

<b>Transport by land according to ADR/RID</b>	NO DANGEROUS GOODS
<b>Inland navigation (ADN)</b>	NO DANGEROUS GOODS
<b>Marine transport in accordance with IMDG</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
<b>Air transport in accordance with IATA</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

<b>Transport by land according to ADR/RID</b>	not applicable
<b>Inland navigation (ADN)</b>	not applicable
<b>Marine transport in accordance with IMDG</b>	not applicable
<b>Air transport in accordance with IATA</b>	not applicable



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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

EEC-REGULATIONS	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) ≥ 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 ≥ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 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.
TRANSPORT-REGULATIONS	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)
NATIONAL REGULATIONS (UK):	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

For this product a chemical safety assessment has not been carried out.

**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.

**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** none