

**Ferdinand Bilstein GmbH + Co. KG**

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

**1.1 Product identifier**

**automatic transmission fluid (ATF)**  
**Article number: 34608, 38935, 38936, 38937**

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

**1.2.1 Relevant uses**

Lubricant

**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]**

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

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

**Hazard pictograms** none

**Signal word** none

**Hazard statements** H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/national regulation.

**Special labelling** Contains: 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. EUH208 May produce an allergic reaction.

**2.3 Other hazards**

**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 no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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** No particular hazards known.

**SECTION 3: Composition / Information on ingredients**

**3.1 Substances**  
**not applicable**

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### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
20 - < 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	Phenol derivates GHS/CLP: Aquatic Chronic 4: H413
0,1 - <1	4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate CAS: 93882-40-7, EINECS/ELINCS: 299-434-3, Reg-No.: 01-2120735527-50-XXXX GHS/CLP: Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Aquatic Chronic 2: H411
0,01 - <0,25	Alkyl thiophosphites EINECS/ELINCS: 424-820-7, Reg-No.: 01-0000017126-75-XXXX GHS/CLP: Skin Corr. 1B: H314 - Acute Tox. 4: H312 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M-Factor (acute): 10, M-Factor (chronic): 10

**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

**General information** Take off contaminated clothing and wash before reuse.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

**Skin contact**

When in contact with the skin, clean with soap and 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**

Do not induce vomiting.

Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

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

Headache

### 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.

Fire extinguishing method of surrounding areas must be considered.

**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)

Carbon dioxide (CO2)

### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**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.  
Do not discharge into the subsoil/soil.  
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

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

Take up with absorbent material (e.g. oil binder).  
Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).  
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**

Avoid formation of aerosols.  
Use only in well-ventilated areas.  
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.  
Take off contaminated clothing and wash before reuse.  
Contaminated work clothing should not be allowed out of the workplace.  
Cloths contaminated with product should not be kept in trouser pockets.

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

Keep only in original container.  
Prevent penetration into the ground.  
Do not store together with food and animal food/diet.  
Keep container in a well-ventilated place.  
Keep container tightly closed.

**7.3 Specific end use(s)**

See product use, SECTION 1.2

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**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
Alkyl thiophosphites
Industrial, inhalative, Long-term - systemic effects, 1,76 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 0,5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0,43 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 0,25 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,25 mg/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
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
Industrial, inhalative, Long-term - systemic effects, 3,526 mg/m <sup>3</sup> (AF= 75)
Industrial, dermal, Long-term - systemic effects, 2 mg/kg bw/d (AF= 300)
general population, oral, Long-term - systemic effects, 0,5mg/kg bw/day

**PNEC**

Substance
Alkyl thiophosphites
freshwater, 900 ng/l
seawater, 90 ng/l
sewage treatment plants (STP), 54 mg/l
sediment (freshwater), 0,073 mg/kg
sediment (seawater), 0,007 mg/kg
soil, 0,015 mg/kg
oral (food), 10 mg/kg
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
oral (food), 9,33 mg/kg food
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
freshwater, 0,009 mg/L (AF= 1000)
seawater, 0,001 mg/L (AF= 10 000)
sewage treatment plants (STP), 100 mg/L (AF= 10)
sediment (freshwater), 542 229,75 mg/kg dw
sediment (seawater), 54 222,98 mg/kg dw
soil, 259 870,48 mg/kg dw
oral (food), 20 mg/kg food (AF=300)

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### 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted. 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.
<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. In full contact: >= 0,38 mm: Nitrile rubber, >120 min (EN 374-1/-2/-3).
<b>Skin protection</b>	light protective clothing
<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>	No special measures necessary.
<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

<b>Physical state</b>	liquid
<b>Form</b>	liquid
<b>Color</b>	yellow
<b>Odor</b>	characteristic
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	No information available.
<b>Boiling point or initial boiling point and boiling range [°C]</b>	not applicable
<b>Flash point [°C]</b>	198°C / 389 °F (EN ISO 2592)
<b>Flammability</b>	Combustible
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/cm³]</b>	0,84 (DIN 51757) (15 °C / 59,0 °F)
<b>Relative density</b>	No information available.
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water [g/L]</b>	insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	not applicable
<b>Kinematic viscosity</b>	28,3 mm²/s, 40 °C / 104 °F (DIN 53211/4)
<b>Relative vapour density</b>	No information available.
<b>Melting point [°C]</b>	No information available.
<b>Auto-ignition temperature [°C]</b>	not applicable
<b>Decomposition temperature [°C]</b>	No information available.
<b>Particle characteristics</b>	not applicable

### 9.2 Other information

none

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No dangerous reactions known if used as directed.

**10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

**10.3 Possibility of hazardous reactions**

No hazardous reactions known.

**10.4 Conditions to avoid**

Strong heating.

**10.5 Incompatible materials**

Oxidizing agent  
Strong basic compounds  
Strong acids.

**10.6 Hazardous decomposition products**

No decomposition if used and stored according to specifications.  
In the event of fire: See SECTION 5.

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## SECTION 11: Toxicological information

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

#### Acute oral toxicity

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

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

Substance
Alkyl thiophosphites
LD50, oral, Rat, > 2000 mg/kg
NOAEL, oral, Rat, 50 - 150 mg/kg bw/day
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, oral, Rat, > 5000 mg/kg bw
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
LD50, oral, Rat, > 10 000 mg/kg bw

#### Acute dermal toxicity

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

Product
dermal, Based on the available information, the classification criteria are not fulfilled.

Substance
Alkyl thiophosphites
LD50, dermal, Rabbit, > 500 mg/kg
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, dermal, Rabbit, > 5000 mg/kg bw
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
LD50, dermal, Rat, > 3160 mg/kg

#### Acute inhalational toxicity

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

Product
inhalative, 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
LC50, inhalative, Rat, > 5 mg/L, 4h

#### Serious eye damage/irritation

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
Eye, non-irritating
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
Eye, irritant

#### Skin corrosion/irritation

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
dermal, non-irritating

#### Respiratory or skin sensitisation

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
dermal, non-sensitizing
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
dermal, sensitising

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**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
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
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
NOAEL, oral, Rat, 300 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
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
in vitro, negativ

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

**- Fertility**

Substance
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
NOAEL, oral, Rat, 1000 mg/kg bw/day
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
NOAEL, oral, Rat, 450 mg/kg bw/day

**- Development**

Substance
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
NOAEL, oral, Rat, 450 mg/kg bw/day

**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.  
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

## 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** Does not contain a relevant substance that meets the classification criteria.

**11.2.2 Other information** none

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## SECTION 12: Ecological information

### 12.1 Toxicity

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

Substance
Alkyl thiophosphites
EL50, (72h), Selenastrum capricornutum, 0,31 mg/l
EL50, (48h), Daphnia magna, 0,09 mg/l
LL50, (21d), Daphnia magna, 0,22 mg/l
LL50, (24h), Oncorhynchus mykiss, 2 mg/l
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
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate, CAS: 93882-40-7
LC50, (96h), Fish, > 100 mg/l (OECD 203)
EL50, (48h), Daphnia magna, 9,5 mg/l (OECD 202)
NOEC, (72h), Algae, > 100 mg/l (OECD 201)
Phenol derivates
EC50, (48h), Daphnia magna, > 101 mg/L
NOEC, (21d), Daphnia magna, >= 1 mg/L

### 12.2 Persistence and degradability

**Behaviour in environment compartments** No information available.

**Behaviour in sewage plant** No information available.

#### Biological degradability

Substance
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

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

### 12.7 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

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## 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!  
Coordinate disposal with the authorities if necessary.

#### 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)

150102

150104

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

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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/EWG ((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** Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

**- 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 subject to the following restrictions. 3

**TRANSPORT-REGULATIONS** ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025, 66th Edition)

**NATIONAL REGULATIONS (UK):** EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

**- Observe employment restrictions for people** no

**- VOC (2010/75/CE)** not relevant

### 15.2 Chemical safety assessment

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

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## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H413 May cause long lasting harmful effects to aquatic life.  
 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

#### Classification procedure

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

#### Modified position

2.1, 2.2, 3.2, 6.2, 8.1, 9.1, 11.1, 11.2, 12.1, 12.6, 15.1, 16.1, 16.3