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

#### 1.1 Product identifier

grease

Article number: 28194, 28193, 1000968

#### 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 E-mail info@febi.com

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

Advisory body Call NHS 111 or a doctor +49 (0)89-19240 (24h) (English)

#### **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 pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

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

Contains: Naphthenic acids, zinc salts. EUH208 May produce an allergic reaction.

#### 2.3 Other hazards

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

**Human health dangers** Frequent persistent contact with the skin can cause skin irritation.

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** Does not contain any PBT or vPvB substances.

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 none

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

#### 3.1 Substances

not applicable

## ebi bilstein

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#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance	
1 - < 2,5	Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	
	CAS: 85940-28-9, EINECS/ELINCS: 288-917-4, Reg-No.: 01-2119521201-61-XXXX	
	GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411	
0,1 - < 1	Dilithium tetraborate	
	CAS: 12007-60-2, EINECS/ELINCS: 234-514-3, Reg-No.: 01-2120770724-49-XXXX	
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302 - Repr. 2: H361d	
	SCL [%]: >= 3,8: Repr. 2: H361	
0,1 - < 1	Naphthenic acids, zinc salts	
	CAS: 12001-85-3, EINECS/ELINCS: 234-409-2, Reg-No.: 01-2120783834-41-XXXX	
	GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1B: H317 - Aquatic Chronic 2: H411	

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** Seek medical advice 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

Not combusted hydrocarbons.

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

#### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

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#### **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

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. general-purpose binder). Dispose of absorbed material in accordance within 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.

Do not eat, drink or smoke when using this product.

Use barrier skin cream.

Wash hands before breaks and after work.

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 tightly closed.

Keep container in a well-ventilated place.

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

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

Substance

#### 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		
Naphthenic acids, zinc salts, CAS: 12001-85-3		
Industrial, inhalative, Long-term - systemic effects, 1,18 mg/m³		
Industrial, dermal, Long-term - systemic effects, 3,3 mg/kg bw/day		
general population, dermal, Long-term - systemic effects, 1,7 mg/kg bw/day		
general population, oral, Long-term - systemic effects, 0,17 ng/kg bw/day		
general population, inhalative, Long-term - systemic effects, 0,29 mg/m³		
Dilithium tetraborate, CAS: 12007-60-2		
Industrial, inhalative, Long-term - systemic effects, 7.1 mg/m³ (AF= 12.5)		
Industrial, dermal, Long-term - systemic effects, 333 mg/kg bw/D (AF= 30)		
general population, dermal, Long-term - systemic effects, 166 mg/kg bw/D (AF= 60)		
general population, oral, Long-term - systemic effects, 0.83 mg/kg bw/D (AF= 60)		
general population, inhalative, Long-term - systemic effects, 1.74 mg/m³ (AF= 25)		
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9		
Industrial, inhalative, Long-term - systemic effects, 6,6 mg/m³		
Industrial, dermal, Long-term - systemic effects, 9,6 mg/kg bw/d		
general population, inhalative, Long-term - systemic effects, 1,67 mg/m³		
general population, dermal, Long-term - systemic effects, 4,8 mg/kg bw/d		
general population, oral, Long-term - systemic effects, 0,19 mg/kg bw/d		

#### **PNEC**

Naphthenic acids, zinc salts, CAS: 12001-85-3		
freshwater, 0,004 mg/L		
seawater, 0 mg/L		
sewage treatment plants (STP), 689,7 µg/L		
sediment (freshwater), 0.015 mg/kg dw		
sediment (seawater), 0.002 mg/kg dw		
soil, 0.001 mg/kg dw		
Dilithium tetraborate, CAS: 12007-60-2		
sewage treatment plants (STP), 44 mg/L		
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9		
freshwater, 0,002 mg/l (AF=1000)		
seawater, 0,0002 mg/l (AF=10000)		
sewage treatment plants (STP), 100 mg/l (AF=100)		
sediment (freshwater), 19,3 mg/kg dw		
sediment (seawater), 1,93 mg/kg dw		
soil, 15,7 mg/kg dw		

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#### 8.2 Exposure controls

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.

**Eye protection** If there is a risk of splashing:

safety glasses

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information

> 0,4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3). > 0,4 mm; Butyl rubber, >480 min (EN 374-1/-2/-3).

**Skin protection** light protective clothing

Other 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.

Avoid contact with eyes and skin. **Respiratory protection**Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)

Thermal hazards none

Delimitation and monitoring of the

environmental exposition

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 statesolidFormpastyColorgreenOdorcharacteristicOdour thresholdnot relevantpH-valuenot applicablepH-value [1%]not applicable

**Boiling point or initial boiling point** 

and boiling range [°C]

No information available.

Flash point [°C] not applicable

Flammability

No information available.

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] ca. 0,9 (DIN 51757) (25 °C)

Relative density No information available.

Bulk density [kg/m³] not applicable
Solubility in water insoluble

**Solubility other solvents** No information available.

Partition coefficient n-octanol/water

(log value)

not applicable

Kinematic viscosity

Relative vapour density

Melting point [°C]

Auto-ignition temperature [°C]

No information available.

No information available.

No information available.

No information available.

Particle characteristics not applicable

9.2 Other information

Drop point: > 250°C (IP 396)

NLGI (National Lubricating Grease Institute) consistency number: 3

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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

Reactions with strong oxidizing agents.

#### 10.4 Conditions to avoid

Strong heating.

#### 10.5 Incompatible materials

Oxidizing agent Strong acids. Strong basic compounds

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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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

Product

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

Substance

Naphthenic acids, zinc salts, CAS: 12001-85-3

LD50, oral, Rat, > 2000 mg/kg

Dilithium tetraborate, CAS: 12007-60-2

LD50, oral, Rat, 300 - 2000 mg/kg bw

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9

LD50, oral, Rat, 3080 mg/kg bw

#### Acute dermal toxicity

Product

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

Substance

Dilithium tetraborate, CAS: 12007-60-2

LD50, dermal, Rat, > 2000 mg/kg bw

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9

LD50, dermal, Rabbit, 20000 mg/kg bw

#### Acute inhalational toxicity

Product

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

Substance

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9

LC50, inhalative, Rat, 2.3 mg/L air, 4h

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Substance

Naphthenic acids, zinc salts, CAS: 12001-85-3

Eye, irritant

Dilithium tetraborate, CAS: 12007-60-2

Eye, Causes serious eye damage.

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9

Causes serious eye damage.

**Skin corrosion/irritation**Based on the available information, the classification criteria are not fulfilled.

Substance

Naphthenic acids, zinc salts, CAS: 12001-85-3

dermal, no adverse effect observed

Dilithium tetraborate, CAS: 12007-60-2

dermal, non-irritating

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9

irritant

**Respiratory or skin sensitisation** EUH208: May produce an allergic reaction.

Calculation method

Substance

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dermal, sensitising

Dilithium tetraborate, CAS: 12007-60-2

Naphthenic acids, zinc salts, CAS: 12001-85-3

dermal, non-sensitizing

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9

dermal, non-sensitizing

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

Naphthenic acids, zinc salts, CAS: 12001-85-3

NOAEL, oral, Rat, 89,7 mg/kg bw/day

Dilithium tetraborate, CAS: 12007-60-2

NOAEL, oral, Rat, 150 mg/kg bw/day

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9

NOAEL, oral, Rat, 125 mg/kg bw/day

Mutagenicity

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

Substance

Naphthenic acids, zinc salts, CAS: 12001-85-3

in vitro, negativ

Reproduction toxicity

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

- Fertility

Substance

Naphthenic acids, zinc salts, CAS: 12001-85-3

NOAEL, oral, Rat, 137,9 mg/kg bw/day, no adverse effect observed

Dilithium tetraborate, CAS: 12007-60-2

NOAEL, oral, Rat, 150 mg/kg bw/d (Effect on fertility), no adverse effect observed

- Development

Substance

Naphthenic acids, zinc salts, CAS: 12001-85-3

NOAEL, oral, Rat, 344,8 mg/kg bw/day, no adverse effect observed

Dilithium tetraborate, CAS: 12007-60-2

NOAEL, oral, Rat, 50 mg/kg bw/d (Effect on developmental toxicity)

Carcinogenicity
Aspiration hazard
General remarks

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

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

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

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#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product

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

Substance

Naphthenic acids, zinc salts, CAS: 12001-85-3

EC50, (72h), Algae, 4 mg/L

EL50, (48h), Daphnia magna, 35 mg/L

LL50, (96h), Fish, 100 mg/L

Dilithium tetraborate, CAS: 12007-60-2

LC50, (96h), Fish, 100 mg/L

EC50, (48h), Daphnia magna, 100 mg/L

EC50, (72h), Algae, 100 mg/L

NOEC, (72h), Algae, 32 mg/L

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts, CAS: 85940-28-9

EC50, (48h), Invertebrates, 5.4 mg/L

EC50, (96h), Algae, 2 - 2.1 mg/L

NOEC, (21d), Invertebrates, 400 - 800 µg/L

LL50, (96h), Oncorhynchus mykiss, 4,5 mg/l

#### 12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant

No information available.

**Biological degradability** 

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic

processes, e.g. mechanical separation.

#### 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

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

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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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 disposal contractor/authorities if necessary.

Dispose of as hazardous waste.

Waste no. (recommended)

120112\* spent waxes and fats

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

150110\* packaging containing residues of or contaminated by hazardous substances Waste no. (recommended)

150102 150104

#### **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

NO DANGEROUS GOODS Inland navigation (ADN)

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 ne

**IMDG** 

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 ≥ 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

not applicable

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

not applicable

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#### **SECTION 16: Other information**

#### 16.1 Hazard statements (SECTION 3)

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

#### 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

Modified position

1.1