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

### 1.1 Product identifier

antifreeze 18 LC

Article number: 183409, 783409, 183410, 183411

UFI: HGXC-4H86-J003-REHP

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

1.2.1 Relevant uses

Anti-freezing agents

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** +49 (0)89-19240 (24h) (English)

### **SECTION 2: Hazards identification**

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

Acute Tox. 4: H302 Harmful if swallowed.

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

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

Hazard pictograms





Signal word WARNING

Contains: Ethylene glycol

Hazard statements H302 Harmful if swallowed.

 ${
m H373~May}$  cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 Do not breathe vapours.

P264 Wash hands thoroughly after handling.

P270 Do no eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.

P314 Get medical advice / attention if you feel unwell.

P405 Store locked up.

P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of

disposal.

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#### 2.3 Other hazards

Physico-chemical hazards No particular hazards known.

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

**Environmental hazards**Does not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

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
60 - < 100	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX
	GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
2,5 - < 5	Disodium sebacate
	CAS: 17265-14-4, EINECS/ELINCS: 241-300-3, Reg-No.: 01-2120762063-61-XXXX
	GHS/CLP: Eye Irrit. 2: H319
0,1 - < 0,3	Methyl-1H-benzotriazole
	CAS: 29385-43-1, EINECS/ELINCS: 249-596-6, Reg-No.: 01-2119979081-35-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Aquatic Chronic 2: H411

Comment on component parts

For full text of H-statements and R-phrases: see SECTION 16.

### **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 In case of contact with skin wash off immediately 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.

Rinse out mouth and give plenty of water to drink.

Do not induce vomiting.

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

No information available.

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

Treat symptomatically.

Forward this sheet to your doctor.



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### **SECTION 5: Fire-fighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media Fire extinguishing method of surrounding areas must be considered.

Carbon dioxide. Water spray jet. Dry powder. Foam.

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)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

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

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. Ensure adequate ventilation.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

### 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

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous

earth).

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

Use only in well-ventilated areas.

Take off contaminated clothing and wash before reuse.

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

Use barrier skin cream.

Wash hands before breaks and after work.

Contaminated work clothing should not be allowed out of the workplace. Cloths contaminated with product should not be kept in trouser pockets.



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### 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.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from heat/overheating.

### 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)

Substance

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX

Long-term exposure: 20 ppm, 52 mg/m³, Vapour, particulate: 10 mg/m³

Short-term exposure (15-minute): 40 ppm, 104 mg/m<sup>3</sup>

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

Substance / EC LIMIT VALUES

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX

Eight hours: 20 ppm, 52 mg/m3, H

Short-term (15-minute): 40 ppm, 104 mg/m<sup>3</sup>

#### **DNEL**

Substance

Ethylene glycol, CAS: 107-21-1

Industrial, dermal, Long-term - systemic effects, 106 mg/m<sup>3</sup>

Industrial, inhalative, Long-term - local effects, 35 mg/m<sup>3</sup>

general population, inhalative, Long-term - local effects, 7 mg/m<sup>3</sup>

general population, dermal, Long-term - systemic effects, 53 mg/m<sup>3</sup>

Disodium sebacate, CAS: 17265-14-4

Industrial, inhalative, Long-term - systemic effects, 35.26 mg/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects, 10 mg/kg bw/day

general population, inhalative, Long-term - systemic effects, 8.7 mg/m³

general population, dermal, Long-term - systemic effects, 5 mg/kg bw/day

general population, oral, Long-term - systemic effects, 5 mg/kg bw/day

Methyl-1H-benzotriazole, CAS: 29385-43-1

Industrial, inhalative, Long-term - systemic effects, 21.2 mg/m³

Industrial, dermal, Long-term - systemic effects, 300 µg/kg bw/day

general population, inhalative, Long-term - systemic effects, 350 μg/m³

general population, dermal, Long-term - systemic effects, 10 µg/kg bw/day

general population, oral, Long-term - systemic effects, 10 μg/kg bw/day

### **PNEC**

Substance

Ethylene glycol, CAS: 107-21-1

sediment (seawater), 3,7 mg/kg

sewage treatment plants (STP), 199,5 mg/l (AF=10)

soil, 1,53 mg/kg

sediment (freshwater), 37 mg/kg

seawater, 1 mg/L

freshwater, 10 mg/L

Disodium sebacate, CAS: 17265-14-4

freshwater, 0.018 mg/L

seawater, 0.002 mg/L



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sewage treatment plants (STP), 10 mg/L	
sediment (freshwater), 0.548 mg/kg sediment dw	
sediment (seawater), 0.055 mg/kg sediment dw	
soil, 0.099 mg/kg soil dw	
Methyl-1H-benzotriazole, CAS: 29385-43-1	
freshwater, 8 µg/L	
seawater, 20 µg/L	
sewage treatment plants (STP), 39.4 mg/L	
sediment (freshwater), 117 μg/kg sediment dw	
sediment (seawater), 292 µg/kg sediment dw	
soil, 18.7 µg/kg soil dw	

### 8.2 Exposure controls

Additional advice on system design 
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.

**Eye protection** Safety glasses. (EN 166:2001)

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).

**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.

Do not inhale vapours.

appropriate respiratory protection.

Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

Thermal hazards No information available.

Delimitation and monitoring of the environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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### **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

Physical state liquid **Form** liquid Color green-yellow Odor characteristic

**Odour threshold** No information available. pH-value ~8,5 (ASTM D1287) No information available. pH-value [1%] Boiling point or initial boiling point >170 (ASTM D 1120)

and boiling range [°C]

Flash point [°C] ~125 (ASTM D-92) Flammability not applicable

No information available. Lower explosion limit No information available. Upper explosion limit

**Oxidising properties** no

Vapour pressure/gas pressure [kPa] ~0,2 hPa (20°C)

Density [g/cm<sup>3</sup>] ca. 1,124 (ASTM D1122) (20 °C / 68,0 °F)

Relative density not determined Bulk density [kg/m³] not applicable Solubility in water miscible

Solubility other solvents No information available. Partition coefficient n-octanol/water No information available.

(log value)

~25,6 mm<sup>2</sup>/s (ASTM D-7042) (20°C) Kinematic viscosity

Relative vapour density No information available. Melting point [°C] No information available. No information available. Auto-ignition temperature [°C] Decomposition temperature [°C] No information available. Particle characteristics No information available.

9.2 Other information

Pour point: ~ -37°C (ASTM D1177) [1:1 H2O]

### **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 acids, alkalies and oxidizing agents.

### 10.4 Conditions to avoid

Strong heating



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### 10.5 Incompatible materials

Oxidizing agent 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

Based on the available information, the classification criteria are fulfilled.

Product

ATE-mix, oral, 523,4 mg/kg bw

Substance

Ethylene glycol, CAS: 107-21-1

LD50, oral, Rat, 7712 mg/kg bw

ATE, oral, 500 mg/kg (Acute Tox. 4)

Disodium sebacate, CAS: 17265-14-4

LD50, oral, Rat, >5000 mg/kg

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

Methyl-1H-benzotriazole, CAS: 29385-43-1

LD50, oral, Rat, 720 mg/kg

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

### Acute dermal toxicity

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

Product

ATE-mix, dermal, >2000 mg/kg bw

Substance

Ethylene glycol, CAS: 107-21-1

LD50, dermal, mouse, > 3500 mg/kg bw

Disodium sebacate, CAS: 17265-14-4

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

Methyl-1H-benzotriazole, CAS: 29385-43-1

LD50, dermal, Rabbit, 2000 mg/kg bw

### Acute inhalational toxicity

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

Product

ATE-mix, inhalation (vapour ), >20 mg/L

Substance

Ethylene glycol, CAS: 107-21-1

LC50, inhalative, Rat, > 2,5 mg/L air, 6h

### Serious eye damage/irritation

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

Substance

Ethylene glycol, CAS: 107-21-1

Eye, Rabbit, In vivo study, non-irritating

Disodium sebacate, CAS: 17265-14-4

irritant

### Skin corrosion/irritation

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

Substance

Ethylene glycol, CAS: 107-21-1



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dermal, Rabbit, In vivo study, non-irritating

Disodium sebacate, CAS: 17265-14-4

no adverse effect observed

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

dermal, Guinea pig, In vivo study, non-sensitizing

Disodium sebacate, CAS: 17265-14-4

dermal, The effects observed are not sufficient for classification.

Specific target organ toxicity — single exposure

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

Specific target organ toxicity — repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, dermal, Dog, 2200 mg/kg bw/day, adverse effect observed

NOEL, oral, Rat, 150 mg/kg bw/day, OECD 408, adverse effect observed

Mutagenicity

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

Substance

Ethylene glycol, CAS: 107-21-1

in vitro, OECD 471, no adverse effect observed

Disodium sebacate, CAS: 17265-14-4

in vitro, negativ

in vivo, negativ

### Reproduction toxicity

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

- Fertility

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, > 1000 mg/kg bw/day, no adverse effect observed

Disodium sebacate, CAS: 17265-14-4

NOAEL, oral, Rat, > 500 mg/kg, no adverse effect observed

- Development

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed

Disodium sebacate, CAS: 17265-14-4

NOAEL, oral, Rat, > 500 mg/kg, no adverse effect observed

Carcinogenicity

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

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, 1000 mg/kg bw/day, In vivo study, no adverse effect observed



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**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

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

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

### 12.1 Toxicity

Substance	
Ethylene glycol, CAS: 107-21-1	
LC50, (3d), fish, 72.86 g/L	
LC50, (28d), fish, 1,5 g/L	
EC50, (48h), Invertebrates, 100 mg/L	
EC50, (21d), Invertebrates, 33,911 g/L	
EC50, (4d), Invertebrates, 3,536 - 13 g/L	
Disodium sebacate, CAS: 17265-14-4	
LC50, (96h), Danio rerio, > 100 mg/L (OECD 203)	
EC50, (48h), Daphnia magna, > 100 mg/L (OECD 202)	
EL50, (72h), Skeletonema costatum, 38.7 mg/L (ISO 10253)	
Methyl-1H-benzotriazole, CAS: 29385-43-1	
LC50, (96h), fish, 55 - 180 mg/L	
EC50, (48h), Invertebrates, 8.58 - 15.8 mg/L	
EC50, (72h), Algae, 29 - 75 mg/L	
NOEC, (21d), Invertebrates, 18.4 mg/L	

### 12.2 Persistence and degradability

Behaviour in environment

compartments

Behaviour in sewage plant not determined

Biological degradability No information available.

### 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

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

none



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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** 

Dispose of as hazardous waste.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 160114\*

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

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

Inland navigation (ADN) NO DANGEROUS GOODS

**IMDG** 

Marine transport in accordance with 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

no

Inland navigation (ADN)

Marine transport in accordance with 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) 517/2014; (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 I (REACH) The product is not subject to Annex I restrictions.

- 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 (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

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 young people.

- VOC (2010/75/CE) 0%

### 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)

H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H302 Harmful if swallowed.

### 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 Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

(Calculation method)

**Modified position** 1.3, 2.3, 3.2, 8.1, 8.2, 9.1, 11.1, 11.2, 12.6, 12.7, 15.1, 16.2, 16.3