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

1.1 Product identifier

febi 32931 Engine Oil 10W - 40

Article number: 32931, 32932, 32933, 32934, 32935, 72931, 72935

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

1.2.1 Relevant uses

Engine oil

1.2.2 Uses advised against

For all uses not specified in SECTION 1.2.1

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 (EC) No 1272/2008]

Eye Irrit. 2: H319 Causes serious eye irritation.

Skin Sens. 1: H317 May cause an allergic skin reaction.

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 (EC) No 1272/2008 (CLP).

Hazard pictograms

(!)

Signal word WARNING

Contains: Calcium long chain alkyl aryl sulfonate

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts

Hazard statements H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

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

P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

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

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

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards none

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
2,5 - < 5	Polyolefine polyamine succinimide, polyol
	CAS: 147880-09-9, EINECS/ELINCS: Polymer
	GHS/CLP: Aquatic Chronic 4: H413
1 - < 2	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts
	CAS: 68784-31-6, EINECS/ELINCS: 272-238-5, Reg-No.: 01-2119657973-23-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 2: H411
1 - < 2	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased
	CAS: 68784-26-9
	GHS/CLP: Aquatic Chronic 4: H413,
	M_acute = 1
1 - < 2	Bis(nonylphenyl)amine
	CAS: 36878-20-3, EINECS/ELINCS: 253-249-4, Reg-No.: 01-2119488911-28-XXXX
	GHS/CLP: Aquatic Chronic 4: H413
1 - < 2	Calcium long chain alkyl aryl sulfonate
	CAS: 722503-68-6, EINECS/ELINCS: 682-816-2
	GHS/CLP: Skin Sens. 1: H317 - Aquatic Chronic 4: H413
0,1 - < 0,3	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts
	CAS: 68584-23-6, EINECS/ELINCS: 271-529-4
	GHS/CLP: Skin Sens. 1B: H317
< 0,25	Phenol, dodecyl-, branched
	CAS: 121158-58-5, EINECS/ELINCS: 310-154-3, EU-INDEX: 604-092-00-9, Reg-No.: 01-2119513207-49-XXXX
	GHS/CLP: Skin Corr. 1C: H314 - Repr. 1B: H360 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - Eye Dam. 1:
	H318,
	M_acute = 10

Comment on component parts

All chemical substances in this material are included on or exempted from listing on the

IECSC Inventory.

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

For full text of H-statements: 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 Consult a doctor immediately.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

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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 the 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.

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.

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. 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

Avoid formation of aerosols.

Do not smoke.

Fire class (DIN EN 2): B

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

Take off contaminated clothing and wash before reuse.

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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.

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

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Substance		
Phenol, dodecyl-, branched, CAS: 121158-58-5		
Industrial, dermal, Acute - systemic effects: 166 mg/kg bw.		
Industrial, dermal, Long-term - systemic effects: 0,25 mg/kg bw.		
Industrial, inhalative (mist), Acute - systemic effects: 44,18 mg/m³.		
general population, oral, Long-term - systemic effects: 0,075 mg/kg bw.		
general population, dermal, Acute - systemic effects: 50 mg/kg bw.		
general population, dermal, Long-term - systemic effects: 0,075 mg/kg bw.		
general population, inhalative (mist), Acute - systemic effects: 13,26 mg/m³.		
general population, inhalative (mist), Long-term - systemic effects: 0,79 mg/m³.		
Bis(nonylphenyl)amine, CAS: 36878-20-3		
Industrial, dermal, Long-term - systemic effects: 5 mg/kg bw/day.		
general population, dermal, Long-term - systemic effects: 2,5 mg/kg bw/day.		
general population, oral, Long-term - systemic effects: 0,25 mg/kg bw/day.		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6		
Industrial, dermal, Acute - systemic effects: 100 mg/kg bw/d.		
Industrial, inhalative, Long-term - systemic effects: 2,93 mg/m³.		
Industrial, dermal, Long-term - systemic effects: 10,42 mg/kg bw/d.		
Industrial, inhalative, Acute - systemic effects: 496,4 mg/m³.		
general population, inhalative, Acute - systemic effects: 11,75 mg/m³.		
general population, inhalative, Acute - systemic effects: 198,6 mg/m³.		
general population, dermal, Long-term - systemic effects: 2,1 mg/kg bw/d.		
general population, dermal, Acute - systemic effects: 50 mg/kg bw/d.		
general population, oral, Long-term - systemic effects: 0,21 mg/kg bw/d.		
general population, oral, Acute - systemic effects: 29 mg/kg bw/d.		
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, CAS: 68584-23-6		
Industrial, inhalative, Long-term - systemic effects: 11,75 mg/m³.		
Industrial, dermal, Long-term - systemic effects: 3,33 mg/kg bw/day.		
Industrial, dermal, Long-term - local effects: 1,03 mg/cm².		
general population, oral, Long-term - systemic effects: 0,833 mg/kg bw/day.		
general population, inhalative, Long-term - systemic effects: 2,9 mg/m³.		
general population, dermal, Long-term - systemic effects: 1,667 mg/kg bw/day.		
general population, dermal, Long-term - local effects: 0,513 mg/cm².		

PNEC

Substance	
Phenol, dodecyl-, branched, CAS: 121158-58-5	
oral (food), 4 mg/kg.	
soil, 0,188 mg/kg.	
seawater, 0,0000074 mg/l.	
sediment (seawater), 0,0226 mg/kg.	
sediment (freshwater), 0,226 mg/kg.	

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freehunter 0.000074 mg/l	
freshwater, 0,000074 mg/l.	
Bis(nonylphenyl)amine, CAS: 36878-20-3	
seawater, 0,01 mg/l.	
freshwater, 0,1 mg/l.	
sewage treatment plants (STP), 1 mg/l.	
sediment (freshwater), 132000 mg/kg.	
soil, 263000 mg/kg.	
sediment (seawater), 13200 mg/kg.	
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6	
oral (food), 8,33 mg/kg.	
sediment (freshwater), 0,0701 mg/l.	
sediment (seawater), 0,00701 mg/l.	
freshwater, 0,0040 mg/l.	
soil, 0,0548 mg/kg.	
sewage treatment plants (STP), 3,8 mg/l.	
seawater, 0,0046 mg/l.	
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, CAS: 68584-23-6	
sewage treatment plants (STP), 1000 mg/l.	
freshwater, 1 mg/l.	
oral (food), 16,667 mg/kg food.	
seawater, 1 mg/l.	

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.

General exposure limit for oil mist should be noted.

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).

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form liquid

Coloryellow-brownOdorcharacteristicOdour thresholdnot applicablepH-valuenot applicablepH-value [1%]not applicable

Boiling point [°C] No information available.

Flash point [°C] > 200 (ISO 2592)

Flammability (solid, gas) [°C] No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Oxidising properties no

Vapour pressure/gas pressure [kPa] < 0,01 (20°C)

Density [g/ml] 0,87 (DIN 51757) (15 °C / 59,0 °F)

Bulk density [kg/m³] not applicable

Solubility in water immiscible

Partition coefficient [n-octanol/water] No information available.

Viscosity > 20,5 mm²/s (40° C)

ca. 13,5 - 15,5 mm²/s (100°C) (DIN 51562/T1)

Relative vapour density determined

in air

No information available.

Evaporation speed No information available.

Melting point [°C] ca. -27 (ISO 3016)

Autoignition temperature [°C] No information available.

Decomposition temperature [°C] No information available.

9.2 Other information

none

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

10.6 Hazardous decomposition products

In the case of heating following (decomposition) products may occure: $> 65^{\circ}\text{C}$ / Hydrogen sulfide (H2S).

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product

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

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

ATE-mix, oral, > 5000 mg/kg bw.

Substance

Phenol, dodecyl-, branched, CAS: 121158-58-5

LD50, dermal, Rabbit: 15000 mg/kg bw.

LD50, oral, Rat: 2100 mg/kg bw.

Bis(nonylphenyl)amine, CAS: 36878-20-3

LD50, dermal, Rat: >2000 mg/kg (OECD 402).

LD50, oral, Rat: >5000 mg/kg (OECD 401).

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6

LD50, dermal, Rabbit: >5000 mg/kg bw.

LD50, oral, Rat: 2750 mg/kg bw

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, CAS: 68584-23-6

LD50, dermal, Rabbit: >5000 mg/kg bw

LD50, oral, Rat: >5000 mg/kg bw.

LC50, inhalative, Rat: >1,9 mg/l.

Serious eye damage/irritation Toxicological data of complete product are not available.

Irritant

Calculation method

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

Toxicological data of complete product are not available. Respiratory or skin sensitisation

May cause an allergic skin reaction.

Calculation method

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.

Mutagenicity

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

Reproduction toxicity

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

Carcinogenicity **Aspiration hazard**

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

On basis of test data

General remarks Frequent persistent contact with the skin can cause skin irritation.

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

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SECTION 12: Ecological information

12.1 Toxicity

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

Product		
Based on the available information, the classification criteria are not fulfilled.:		
Substance		
Phenol, dodecyl-, branched, CAS: 121158-58-5		
EC50, (72h), Scenedesmus subspicatus: 0,15 mg/l.		
EC50, (21d), Daphnia magna: 0,008 mg/l.		
EC50, (48h), Daphnia magna: 0,037 mg/l.		
EL50, (96h), Pimephales promelas: 40 mg/l.		
Bis(nonylphenyl)amine, CAS: 36878-20-3		
EC50, (48h), Daphnia magna: >100 mg/l (OECD 202).		
LC0, (96h), Brachidanio rerio: 58 mg/l (OECD 203).		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, CAS: 68784-31-6		
EC50, (16h), Pseudomonas putida: 380 mg/l.		
IC50, (21d), Daphnia magna: >0,8 mg/l.		
EL50, (48h), Daphnia magna: 75 mg/l.		
EL50, (72h), Desmodesmus subspicatus: 410 mg/l.		
NOEC, (21d), Daphnia magna: 0,8 mg/l.		
NOELR, (96h), Oncorhynchus mykiss: 3,2 mg/l.		
NOELR, (48h), Daphnia magna: 32 mg/l.		
LL50, (96h), Oncorhynchus mykiss: 4,4 mg/l.		
EC0, (16h), Pseudomonas putida: 200 mg/l.		
LOEC, (21d), Daphnia magna: 0,8 mg/l.		
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, CAS: 68584-23-6		
EC50, (48h), Daphnia magna: >1000 mg/l.		
EC50, (72h), Pseudokirchneriella subcapitata: >1000 mg/l.		
NOEC, (72h), Pseudokirchneriella subcapitata: 1000 mg/l.		
LL50, (96h), fish: >10000 mg/l.		
EC0, (48h), Daphnia magna: 1000 mg/l.		

12.2 Persistence and degradability

Behaviour in environment not determined

LL0, (96h), fish: 10000 mg/l.

compartments

Behaviour in sewage plant not determined **Biological degradability** not determined

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.

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12.6 Other adverse effects

Ecological data of complete product are not available.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c 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)

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.

150110* Waste no. (recommended)

SECTION 14: Transport information

14.1 UN 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 NOT CLASSIFIED AS "DANGEROUS GOODS"

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

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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 not applicable

IMDG

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to

not applicable

ADR/RID

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 no

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions

for people

no

- 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 03)

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H360 May damage fertility or the unborn child. H314 Causes severe skin burns and eye damage. H411 Toxic to aquatic life with long lasting effects.

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H413 May cause long lasting harmful effects to aquatic life.

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

ELINCS = European List of Notified Chemical Substances 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

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

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 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

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

Modified position none