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SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1				
		febi 24704 hydraulic fluid Article number: 24704		
1.2	Relevant identified uses of the su	ubstance or mixture and uses advised against		
1.2.1	Relevant uses			
		Hydraulics 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 safe	ety 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)		
SEC	TION 2: Hazards identification			
2.1	Classification of the substance o	r mixture [REGULATION (EC) No 1272/2008]		
		Skin Irrit. 2: H315 Causes skin irritation. 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		
	Hazard statements	H315 Causes skin irritation. H412 Harmful to aquatic life with long lasting effects.		
	Precautionary statements	<ul> <li>P101 If medical advice is needed, have product container or label at hand.</li> <li>P102 Keep out of reach of children.</li> <li>P280 Wear protective gloves / protective clothing.</li> <li>P332+P313 If skin irritation occurs: Get medical advice / attention.</li> <li>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.</li> </ul>		
	Special labelling	Contains: 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, reaction products of P-/N-/S-containing compounds with propionic acid. EUH208 May produce an allergic reaction.		
2.3	Other hazards			
		none		
	Environmental hazards	Does not contain any PBT or vPvB substances.		
	Other hazards	Further hazards were not determined with the current level of knowledge.		

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

### Product-type:

### 3.2 The product is a mixture.

Range [%]	Substance		
30 - < 60	60 Distillates (petroleum), hydrotreated light naphthenic		
	CAS: 64742-53-6, EINECS/ELINCS: 265-156-6, EU-INDEX: 649-466-00-2		
	GHS/CLP: Asp. Tox. 1: H304		
15 - < 30	Distillates (petroleum), hydrotreated light paraffinic		
	CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX		
	GHS/CLP: Asp. Tox. 1: H304		
15 - < 30	Distillates (petroleum), hydrotreated middle		
	CAS: 64742-46-7, EINECS/ELINCS: 265-148-2, EU-INDEX: 649-221-00-X		
	GHS/CLP: Acute Tox. 4: H332 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411		
5 - < 15	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based		
	CAS: 72623-87-1, EINECS/ELINCS: 276-738-4, EU-INDEX: 649-483-00-5		
	GHS/CLP: Asp. Tox. 1: H304		
< 0.5	2,6-di-tert-butylphenol		
	CAS: 128-39-2, EINECS/ELINCS: 204-884-0, Reg-No.: 01-2119490822-33-XXXX		
	GHS/CLP: Skin Irrit. 2: H315 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400		
< 0.25	reaction products of P-/N-/S-containing compounds with propionic acid		
	CAS: 94270-86-7, EINECS/ELINCS: 939-700-4, Reg-No.: 01-2119982395-25		
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1B: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411		
< 0.25	3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid		
	CAS: 268567-32-4, EINECS/ELINCS: 434-070-2, Reg-No.: 01-2119658068-31		
	GHS/CLP: Eye Dam. 1: H318 - Skin Sens. 1B: H317 - Aquatic Chronic 3: H412		

Comment on component parts

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	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

No information available.

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

Treat symptomatically. If swallowed or in the event of vomiting, risk of product entering the lungs. Forward this sheet to the doctor.

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SECTION 5: Fire-fighting measures			
5.1	Extinguishing media Suitable extinguishing media Extinguishing media that must not be used	Foam, dry powder, water spray jet, carbon dioxide. Full water jet.	
5.2	Special hazards arising from the	substance or mixture	
		Risk of formation of toxic pyrolysis products. Carbon monoxide (CO) Sulphur oxides (SOx).	
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.	
SEC	TION 6: Accidental release measur	es	
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 contain	ment 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	
SEC	TION 7: Handling and storage		
7.1	Precautions for safe handling		
	-	Avoid formation of aerosols.	
		Fire class (DIN EN 2): B Do not smoke.	
		Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Cloths contaminated with product should not be kept in trouser pockets. Use barrier skin cream. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.	
7.2	Conditions for safe storage, inclu	ding 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.	
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)

Substance
Distillates (petroleum), hydrotreated light paraffinic
CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX
Long-term exposure: 5 mg/m <sup>3</sup> , ACGIH TLV (OIL MIST)

DNEL

Substance
2,6-di-tert-butylphenol, CAS: 128-39-2
Industrial, inhalative, Long-term - systemic effects: 70,61 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 11,25 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 6,75 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 20,9 mg/m <sup>3</sup> .
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4
Industrial, dermal, Long-term - systemic effects: 1.25 mg/kg bw/d (AF=100).
Industrial, inhalative, Long-term - systemic effects: 4,4 mg/m <sup>3</sup> (AF=25).
general population, inhalative, Long-term - systemic effects: 1.1 mg/m <sup>3</sup> (AF=50).
general population, dermal, Long-term - systemic effects: 0.6 mg/kg bw/d (AF=200).
general population, oral, Long-term - systemic effects: 0.6 mg/kg bw/d (AF=200).
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
Industrial, inhalative, Long-term - local effects: 5,6 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 2,7 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 0,74 mg/kg bw/day.
reaction products of P-/N-/S-containing compounds with propionic acid, CAS: 94270-86-7
Industrial, inhalative, Long-term - systemic effects: 1,3 mg/m <sup>3</sup> (AF=30).
Industrial, dermal, Long-term - systemic effects: 0,4 mg/kg bw/d (AF=120).
general population, dermal, Long-term - systemic effects: 0,2 mg/kg bw/d (AF=240).
general population, inhalative, Long-term - systemic effects: 0,3 mg/m <sup>3</sup> (AF=60).

PNEC

Substance
2,6-di-tert-butylphenol, CAS: 128-39-2
sewage treatment plants (STP), 10 mg/l.
seawater, 0,00 mg/l.
sediment (freshwater), 0,317 mg/kg sediment dw.
sediment (seawater), 0,032 mg/kg sediment dw.
soil, 0,063 mg/kg soil dw.
oral (food), 60 mg/kg food.
freshwater, 0,001 mg/l.
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4
freshwater, 0.072 mg/L (AF=50).
soil, 4.54 mg/kg dw.
sediment (seawater), 2.3 mg/kg dw.
sediment (freshwater), 23 mg/kg dw.
sewage treatment plants (STP), 10 mg/l (AF=10).

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seawater, 0.007 mg/L (AF=500).	
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8	
oral (food), 9,33 mg/kg food.	
reaction products of P-/N-/S-containing compounds with propionic acid, CAS: 94270-86-7	
freshwater, 0,001 mg/l (AF=1000).	
sewage treatment plants (STP), 0,69 mg/l (AF=100).	
seawater, 0 mg/l (AF=10.000).	

# 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. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 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	No information available.
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

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

# 9.1 Information on basic physical and chemical properties

Form	liquid
Color	green-yellow
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	> 90 (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]	ca. 0,86 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	ca. 21 mm²/s (40°C) (DIN 51562/T1)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	ca51 (ISO 3016)
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	> 300

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, because the thermal decomposition starts from > 300°C.

### 10.5 Incompatible materials

Oxidizing agent

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Product	
oral, Based on the available information, the classification criteria are not fulfilled.:	
inhalative, Based on the available information, the classification criteria are not fulfilled.:	
dermal, Based on the available information, the classification criteria are not fulfilled .:	
Substance	
Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6	
LD50, dermal, Rabbit: > 2000 mg/kg.	
LD50, oral, Rat: > 5000 mg/kg.	
2,6-di-tert-butylphenol, CAS: 128-39-2	
LD50, oral, Rat: >5000 mg/kg bw (OECD 401).	
LD0, dermal, Rat: > 36 ml/kg bw (Lit.).	
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4	
LD50, dermal, Rat: > 2000 mg/kg bw.	
LD50, oral, Rat: > 2000 mg/kg bw.	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1	

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

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

LC50, inhalative, Rat: >= 5,53 mg/l (OECD 403)

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

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

LD50, dermal, > 2000 mg/kg bw.

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

reaction products of P-/N-/S-containing compounds with propionic acid, CAS: 94270-86-7

LD5	i0, oral, Rat: 33	13 mg/kg bw.
Serious eye damage/irritation		Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritatio	'n	Toxicological data of complete product are not available. Irritant Calculation method
Respiratory or skin se	nsitisation	Toxicological data of complete product are not available. May produce an allergic reaction. Calculation method
Specific target organ to single exposure	oxicity —	Based on the available information, the classification criteria are not fulfilled.

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

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

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

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

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

Aspiration hazard General remarks

Carcinogenicity

repeated exposure Mutagenicity

**Reproduction toxicity** 

Specific target organ toxicity -

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.

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

### 12.1 Toxicity

Substance
2,6-di-tert-butylphenol, CAS: 128-39-2
LC50, (21d), Daphnia magna: 0,23 mg/l (OECD 211).
LC50, (48h), Daphnia magna: 0,45 mg/l (US EPA TSCA).
LC50, (96h), Pimephales promelas: 1,4 mg/l (OECD 204).
EC50, (24h), Pseudokirchneriella subcapitata: 2,3 mg/l (US EPA 797.1050).
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4
LC50, (96h), fish: 54 mg/l.
EC50, (48h), Daphnia magna: 53 mg/l.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LC50, (96h), fish: > 100 mg/l (OECD 203).
EC50, (48h), Crustacea: > 100 mg/l (OECD 202).
ErC50, (72h), Algae: > 100 mg/l (OECD 201).
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
EL50, (24h), Daphnia magna: >10000 mg/l (OECD 202).
LL50, (96h), Pimephales promelas: >100 mg/l (OECD 203).
NOEL, (72h), Pseudokirchneriella subcapitata: >100 mg/l (OECD 201).
NOEL, (21d), Daphnia magna: >10 mg/l (OECD 211).
reaction products of P-/N-/S-containing compounds with propionic acid, CAS: 94270-86-7
LC50, (96h), 1 - 10 mg/l.
EC50, (48h), Daphnia magna: 1 - 10 mg/l.

### 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
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.

### 12.6 Other adverse effects

Ecological data of complete product are not available. Do not discharge product unmonitored into the environment or into the drainage. 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 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	
		Coordinate disposal with the disposal contractor/authorities if necessary. Disposal in an incineration plant in accordance with the regulations of the local authorities. In according to RoHS!
	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)	150110*
SEC	TION 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	N 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	Transport in bulk according to An	nex II of MARPOL and the IBC Code
	not applicable	
SEC	TION 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);

#### ; 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 Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people. for people - VOC (2010/75/CE) 0%

### 15.2 Chemical safety assessment

not applicable

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

### 16.1 Hazard statements (SECTION 03)

H412 Harmful to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

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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

none

### 16.3 Other information

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method) Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

**Modified position** 

**Classification procedure**