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

# 1.1 Product identifier

antifreeze Article number: 99 90 2374 UFI: MCR3-V232-P00K-VKCK

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

SWAG Autoteile GmbH Am Kiesberg 4-6 42117 Wuppertal / GERMANY Phone +49 (0)202 26454-0 Fax +49 (0)202 26454-5000 Homepage www.swag.de E-mail info@swag.de

	Address enquiries to	
	Technical information	info@swag.de
	Safety Data Sheet	info@swag.de
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. H373 May cause damage to organs through prolonged or repeated exposure.
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>P260 Do not breathe vapours.</li> <li>P270 Do no eat, drink or smoke when using this product.</li> <li>P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.</li> <li>P314 Get medical advice / attention if you feel unwell.</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>

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## 2.3 Other hazards

Human health dangers	If swallowed or in the event of vomiting, risk of product entering the lungs. 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
1 - < 2,5	Potassium isononanoate
	CAS: 84501-71-3, EINECS/ELINCS: 282-991-1
	GHS/CLP: Skin Irrit. 2: H315 - 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**

# 4.1Description of first aid measures<br/>General informationTake off contaminated clothing and wash before reuse.InhalationEnsure supply of fresh air.<br/>In the event of symptoms seek medical treatment.Skin contactIn case of contact with skin wash off immediately with soap and water.<br/>Consult a doctor if skin irritation persists.Eye contactRinse cautiously with water for several minutes. Remove contact lenses, if present and easy<br/>to do. Continue rinsing.<br/>If eye irritation persists: Get medical advice/attention.IngestionDo not induce vomiting.

Rinse out mouth and give plenty of water to drink.

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

Headache Drowsiness

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

Treat symptomatically. Forward this sheet to your doctor.

Consult a doctor immediately.

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SEC	TION 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.
5.3	Advice for firefighters	
0.0	Action in mongine of	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 measu	res
6.1	Personal precautions protective	equipment and emergency procedures
0.1		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	
0.2	Livitonmental 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	
7.1	Frecautions for sale handling	Use only in well-ventilated areas.
		The product is combustible.
		<ul><li>Take off contaminated clothing and wash before reuse.</li><li>Do not eat, drink or smoke when using this product.</li><li>Use barrier skin cream.</li><li>Wash hands before breaks and after work.</li><li>Contaminated work clothing should not be allowed out of the workplace.</li></ul>
7.2	Conditions for safe storage, inclu	uding 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.

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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/m <sup>3</sup> , Vapour, particulate: 10 mg/m <sup>3</sup>
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-X	XX
Eight hours: 20 ppm, 52 mg/m <sup>3</sup> , H	
Short-term (15-minute): 40 ppm, 104 mg/m <sup>3</sup>	

### DNEL

Substance	
Ethylene glycol, CAS	3: 107-21-1
Industrial, dermal, Lo	ong-term - systemic effects, 106 mg/m <sup>3</sup>
Industrial, inhalative,	Long-term - local effects, 35 mg/m <sup>3</sup>
general population, in	nhalative, Long-term - local effects, 7 mg/m <sup>3</sup>
general population, c	lermal, Long-term - systemic effects, 53 mg/m³
Methyl-1H-benzotriaz	zole, CAS: 29385-43-1
Industrial, inhalative,	Long-term - systemic effects, 21.2 mg/m <sup>3</sup>
Industrial, dermal, Lo	ong-term - systemic effects, 300 μg/kg bw/day
general population, in	nhalative, Long-term - systemic effects, 350 µg/m <sup>3</sup>
general population, c	lermal, Long-term - systemic effects, 10 μg/kg bw/day
general population, c	oral, Long-term - systemic effects, 10 μg/kg bw/day
Substance	
Ethylene glycol, CAS	3: 107-21-1
sediment (seawater)	, 3,7 mg/kg
sewage treatment pla	ants (STP), 199,5 mg/l (AF=10)
soil, 1,53 mg/kg	
sediment (freshwate	r), 37 mg/kg
seawater, 1 mg/L	
freshwater, 10 mg/L	
Mothyl 14 honzotria	

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
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

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# 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.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear 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.

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

# 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	yellow
Odor	faintly
Odour threshold	No information available.
pH-value	7,8 - 8,5 (50%)
pH-value [1%]	No information available.
Boiling point or initial boiling point and boiling range [°C]	No information available.
Flash point [°C]	>100 (DIN 51758)
Flammability	not applicable
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/cm³]	ca. 1,12 (DIN 51757) (20 °C / 68,0 °F)
Relative density	not determined
Relative density Bulk density [kg/m³]	not determined not applicable
•	
Bulk density [kg/m³]	not applicable
Bulk density [kg/m³] Solubility in water	not applicable miscible
Bulk density [kg/m³] Solubility in water Solubility other solvents Partition coefficient n-octanol/water	not applicable miscible No information available.
Bulk density [kg/m³] Solubility in water Solubility other solvents Partition coefficient n-octanol/water (log value)	not applicable miscible No information available. No information available.
Bulk density [kg/m³] Solubility in water Solubility other solvents Partition coefficient n-octanol/water (log value) Kinematic viscosity	not applicable miscible No information available. No information available. No information available.
Bulk density [kg/m³] Solubility in water Solubility other solvents Partition coefficient n-octanol/water (log value) Kinematic viscosity Relative vapour density	not applicable miscible No information available. No information available. No information available. No information available.
Bulk density [kg/m³] Solubility in water Solubility other solvents Partition coefficient n-octanol/water (log value) Kinematic viscosity Relative vapour density Melting point [°C]	not applicable miscible No information available. No information available. No information available. No information available. No information available.
Bulk density [kg/m³] Solubility in water Solubility other solvents Partition coefficient n-octanol/water (log value) Kinematic viscosity Relative vapour density Melting point [°C] Auto-ignition temperature [°C]	not applicable miscible No information available. No information available. No information available. No information available. No information available.

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# 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 acids, alkalies and oxidizing agents.

### 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

See SECTION 10.3. Oxidizing agent Strong acids.

# **10.6 Hazardous decomposition products**

No hazardous decomposition products known.



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# **SECTION 11: Toxicological information**

Product

# 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.

ATE-mix,	oral.	544.3	ma/ka	bw

Substance
Ethylene glycol, CAS: 107-21-1
LD50, oral, Rat, 7712 mg/kg bw
ATE, oral, 500 mg/kg (Acute Tox. 4)
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 available data, the classification criteria are not met.

# Product

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

Substance
Ethylene glycol, CAS: 107-21-1
LD50, dermal, mouse, > 3500 mg/kg bw
Methyl-1H-benzotriazole, CAS: 29385-43-1
LD50, dermal, Rabbit, 2000 mg/kg bw

### Acute inhalational toxicity

Based on available data, the classification criteria are not met.

# 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

### Skin corrosion/irritation

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

### Substance

	Cabelance
	Ethylene glycol, CAS: 107-21-1
Ē	

dermal, Rabbit, In vivo study, non-irritating

### Respiratory or skin sensitisation

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

Substance

			Ξ
Ethylene gl	ycol, CA	S: 107-21-1	

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

# 42117 Wuppertal



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 Specific target organ toxicity — single exposure
 Based on the available information, the classification criteria are not fulfilled.

 Specific target organ toxicity — repeated exposure
 May cause damage to organs through prolonged or repeated exposure.

 Substance

 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.

Ethylene glycol, CAS: 107-21-1
in vitro, OECD 471, no adverse effect observed

### **Reproduction toxicity**

Substance

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

# - Fertility

	Substance
ſ	Ethylene glycol, CAS: 107-21-1
Ī	NOAEL, oral, Rat, > 1000 mg/kg bw/day, no adverse effect observed

### - Development

Substance	
Ethylene glycol, CAS: 107-21-1	
NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed	

### Carcinogenicity

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

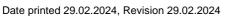
Substance	
Ethylene glycol, CAS: 107-21-1	
NOAEL, oral, Rat, 1000 mg/kg bw/day, In vivo study, no adverse effect observed	

Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	
	Toxicological data of complete product are not available

Toxicological data of complete product are not available.

# 11.2 Information on other hazards

11.2.1 Endocrine disrupting	Contains no ingredients with endocrine-disrupting properties.
properties	
11.2.2 Other information	none





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# **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	
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	Biodegradable.

# 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

# 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage. Ecological data of complete product are not available.

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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
SEC	TION 14: Transport information	
14.1	UN number or ID number	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.2	UN proper shipping name Transport by land according to ADR/RID	NO DANGEROUS GOODS
	Inland navigation (ADN)	NO DANGEROUS GOODS
	Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
	Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"
14.3	Transport hazard class(es) Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable

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14.4	Packing group Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.5	Environmental hazards	
	Transport by land according to ADR/RID	no
	Inland navigation (ADN)	no
	Marine transport in accordance with IMDG	no
	Air transport in accordance with IATA	no

# 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

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# **SECTION 15: Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture		
EEC-REGULATIONS	2008/98/EG (2000/532/EG ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EG) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EG) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021	
- 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 $\geq 0.1\%$ 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%	

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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.
- H315 Causes skin 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, 3.2, 8.1, 8.2, 9.1, 11.1, 11.2, 12.6, 12.7, 15.1, 16.2, 16.3