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# **Safety data sheet** according to Regulation (EC) No 1907/2006, Article 31

Printing date 16.03.2024

Version number 23

Revision: 16.03.2024

· Product identifier	
· Trade name	Konudur 170 TR - Komponente A
<ul> <li>Relevant identified uses of the substance or mixture and uses advised against</li> <li>Application of the substance / the mixture</li> </ul>	No further relevant information available. Epoxy resin
· Details of the supplier of the s	
• Manufacturer/Supplier:	MC-Bauchemie Müller GmbH & Co. KG Am Kruppwald 1-8 D-46238 Bottrop Tel.: +49(0)2041-101-0 Fax.: +49(0)2041-101-400 E-Mail: info@mc-bauchemie.de MC-Bauchemie AG Hagackerstr. 10 CH-8953 Dietikon Tel.: +44-7400510
	Fax : +44-7400533
· Informing department:	msds@mc-bauchemie.de
2 Hazards identification	
· Classification of the substanc	
• Classification of the substanc Acute Tox. 5	H333 May be harmful if inhaled.
<ul> <li>Classification of the substanc</li> <li>Acute Tox. 5</li> <li>Skin Irrit. 2</li> </ul>	H333 May be harmful if inhaled. H315 Causes skin irritation.
<ul> <li>Classification of the substanc</li> <li>Acute Tox. 5</li> <li>Skin Irrit. 2</li> <li>Serious eye damage/irritation –</li> </ul>	H333 May be harmful if inhaled. H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation.
<ul> <li>Classification of the substance</li> <li>Acute Tox. 5</li> <li>Skin Irrit. 2</li> <li>Serious eye damage/irritation –</li> <li>Skin Sens. 1</li> </ul>	H333 May be harmful if inhaled. H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
<ul> <li>Classification of the substanc</li> <li>Acute Tox. 5</li> <li>Skin Irrit. 2</li> <li>Serious eye damage/irritation –</li> </ul>	H333 May be harmful if inhaled. H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
<ul> <li>Classification of the substance</li> <li>Acute Tox. 5</li> <li>Skin Irrit. 2</li> <li>Serious eye damage/irritation –</li> <li>Skin Sens. 1</li> </ul>	H333 May be harmful if inhaled. H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. Route exposure: Inhalation. H373 May cause damage to the lung throug prolonged or repeated exposure. Route
• Classification of the substanc Acute Tox. 5 Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Carc. 2	H333 May be harmful if inhaled. H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. Route exposure: Inhalation. H373 May cause damage to the lung throug
Classification of the substance Acute Tox. 5 Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Carc. 2 STOT RE 2	H333 May be harmful if inhaled. H315 Causes skin irritation. Category 2A H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. Route exposure: Inhalation. H373 May cause damage to the lung throug prolonged or repeated exposure. Route exposure: Inhalation.
Classification of the substance Acute Tox. 5 Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Carc. 2 STOT RE 2 Aquatic Chronic 2	<ul> <li>H333 May be harmful if inhaled.</li> <li>H315 Causes skin irritation.</li> <li>Category 2A H319 Causes serious eye irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H351 Suspected of causing cancer. Route exposure: Inhalation.</li> <li>H373 May cause damage to the lung throug prolonged or repeated exposure. Route exposure: Inhalation.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>
Classification of the substance Acute Tox. 5 Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Carc. 2 STOT RE 2 Aquatic Chronic 2 · Label elements	<ul> <li>H333 May be harmful if inhaled.</li> <li>H315 Causes skin irritation.</li> <li>Category 2A H319 Causes serious eye irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H351 Suspected of causing cancer. Route exposure: Inhalation.</li> <li>H373 May cause damage to the lung throug prolonged or repeated exposure. Route exposure: Inhalation.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>
Classification of the substance Acute Tox. 5 Skin Irrit. 2 Serious eye damage/irritation – Skin Sens. 1 Carc. 2 STOT RE 2 Aquatic Chronic 2 · Label elements · GHS label elements	<ul> <li>H333 May be harmful if inhaled.</li> <li>H315 Causes skin irritation.</li> <li>Category 2A H319 Causes serious eye irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H351 Suspected of causing cancer. Route exposure: Inhalation.</li> <li>H373 May cause damage to the lung throug prolonged or repeated exposure. Route exposure: Inhalation.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>



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Trade name Konudur 170 TR - Komponente A

	(Contd. of page 1)
Hazard-determining	
components of labelling:	epoxide derivates
,	crystalline silica
	titanium dioxide
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]
	dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)
	oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]
	dioxirane
	Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives
	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane
	(1:2)
Hazard statements	May be harmful if inhaled.
	Causes skin irritation.
	Causes serious eye irritation.
	May cause an allergic skin reaction.
	Suspected of causing cancer. Route of exposure: Inhalation.
	May cause damage to the lung through prolonged or repeated
	exposure. Route of exposure: Inhalation.
	Toxic to aquatic life with long lasting effects.
Precautionary statements	Do not breathe dust/fume/gas/mist/vapours/spray.
	Avoid release to the environment.
	Wear protective gloves/protective clothing/eye protection/face
	protection.
	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
	rinsing.
	Store locked up.
Other hazards	
Results of PBT and vPvB as	
PBT:	Not applicable.
vPvB:	Not applicable.

## 3 Composition/information on ingredients

· Chemical characterisation: Mixtures

• **Description:** Mixture consisting of the following components.

· Dangerous components:		
CAS: 1675-54-3	epoxide derivates	50-70%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 9003-36-5	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] dioxirane	
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Acute Tox. 5, H303; Acute Tox. 5, H313	
	(Co	ntd. on page 3)



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		(Co	ontd. of page 2)
CAS: 14	808-60-7	crystalline silica	<10%
		STOT RE 1, H372	
CAS: 68	609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	≥1-<2.5%
		Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 13	463-67-7	titanium dioxide	≥1-<1.5%
		Carc. 2, H351; Acute Tox. 5, H333	
CAS: 93	3999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	<i>≥</i> 1-<1.5%
		Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
· Addition	nal informa	<i>ation</i> For the wording of the listed hazard phrases refer to se	ction 16.

### 4 First aid measures

· Description of first aid measu	ires
General information	Remove contaminated clothing immediately. Consult a doctor if symptoms occur. Move affected person to fresh air.
· After inhalation	Supply fresh air; seek medical advice if symptoms occur. If unconscious, place in recovery position and seek medical advice.
· After skin contact	In case of contact with skin, wash carefully with plenty of soap and water. Consult a doctor in case of skin reactions.
· After eye contact	Rinse opened eye for several minutes under running water. Call a doctor immediately
· After swallowing	Rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. If symptoms persist, consult a doctor.
<ul> <li>Information for doctor</li> <li>Most important symptoms and effects, both acute and</li> </ul>	
delayed	Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

## 5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
  - No further relevant information available.
- Advice for firefighters
- · Protective equipment:
- No special measures required.

### 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

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• Environmental precautions:	(Contd. of page 3) Inform respective authorities in case product reaches water or sewage system.
• Methods and material for	
containment and cleaning up	: Absorb with liquid-binding material (sand, diatomite, acid binders,
	universal binders, sawdust).
	Ensure adequate ventilation.
Reference to other sections	See Section 7 for information on safe handling
	See Section 8 for information on personal protection equipment.
	See Section 13 for information on disposal.

## 7 Handling and storage

· Handling

· Precautions for safe handling Open and handle containers with care.

Precautions for safe handling	Open and handle containers with care.
J	Only use in well-ventilated areas (e.g. open construction, outdoor areas), in rooms without air exchange (e.g. closed rooms, underground car parks) ventilation measures are required. are required.
	Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or damaged gloves and contaminated clothing immediately and wash skin immediately. Mix slowly, partially covering the mixing container. Pour carefully and slowly when repotting. Observe the BGBau technical data sheet and practical guide for handling epoxy resins. Open and handle containers with care.
· Information about protection	,
	Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic discharges.
<ul> <li>Conditions for safe storage, in</li> <li>Storage</li> </ul>	ncluding any incompatibilities
· Requirements to be met by storerooms and containers:	No special requirements

storerooms and containers:No special requirements.Further information about<br/>storage conditions:None.Storage class10

### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

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Control	naramotoro	(Contd. of page
	parameters nents with critica	I values that require monitoring at the workplace:
-	4808-60-7 crystall	
PEL (US	-	Long-term value: 0.05* mg/m³
	,	*resp. dust; 30mg/m3/%SiO2+2
REL (US	SA)	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV (US	SA)	Long-term value: 0.025* mg/m³ *respirable particulate matter, A2
BOELV	(European Union)	Long-term value: 0.1* mg/m³ *respirable fraction
· DNELs		I
CAS: 68	8609-97-2 Oxirane	e, mono[(C12-14-alkyloxy)methyl] derivatives
Oral	DNEL 1 mg/kg	
Dermal	DNEL 1.7 mg/k	
	/e DNEL 0.98 mg	
		···· (· ·· <del>-</del> /
PNECs		
		e, mono[(C12-14-alkyloxy)methyl] derivatives
	0.00072 mg/l (Mew	,
	0.0072 mg/l (Fresh	,
PNEC 8	80.12 mg/kg dwt (E	Bod)
6	6.677 mg/kg dwt (S	Sediment)
6	66.77 mg/kg dwt (F	Fresh water sediment)
· Additio	nal information:	The lists that were valid during the compilation were used as basi
Exposu	re controls	
	al protective equi	pment
	I protective and	
	c measures	Keep away from food, drink and animal feed.
		Remove soiled, soaked clothing immediately.
		Wash hands before breaks and at the end of work.
Broothi	na navinmenti	Avoid contact with eyes and skin.
Dreathl	ng equipment:	If workplace limit values cannot be complied with by ventilation measures or if rooms cannot be technically ventilated, respirato
		protection must be worn: Use combination filter A1-P2 (brow
		white) in rooms that cannot be ventilated. If oxygen deficiency
		expected, use self-contained breathing apparatus. Observ
		wearing time limits according to §9 (3) GefStoffV in conjunction
		with BGR 190.
· Protect	ion of hands:	Selection of the glove material on consideration of the penetration
Matorio	l of gloves	times, rates of diffusion and the degradation
wateria	i or gioves	You can find help with choosing gloves on the website https www.bgbau.de/fileadmin/Gisbau/Projekte.pdf
		For example, we recommend the Sol-vex 37-900 protective glove
		from Ansell GmbH. The breakthrough time of the protective glove
		(Contd. on page



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	(Contd. of page 5) can be found under point 8 "Penetration time of the glove material". The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
	Nitrile rubber
Dens for the state of states	Recommended material thickness: ≥ 0.4 mm
Penetration time of glove	
material	The breakthrough times of the Sol-vex 37-900 protective gloves are around 8 hours.
	The following applies to all other gloves:
	The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.
	Nitrile rubber
	Material thickness: ≥ 0.40 mm
	Penetration time: $\geq$ 480 min
	Butyl rubber:
	Material thickness: > 0.5 mm
	Penetration time: $\geq$ 480 min
· Eye protection:	Tight-fitting safety goggles.
_, , , , , , , , , , , , , , , , , , ,	Safety goggles.
• Body protection:	Protective clothing
Doug protootion.	Suitable protective clothing should be worn when working with
	epoxy resins. In addition to normal work clothing (long trousers,
	long-sleeved shirt or T-shirt), disposable overalls, aprons,
	overshoes, sleeve protectors etc. may be necessary depending on
	the activity. Uncovered areas of skin should be avoided as far as
	possible, even in hot weather. If the work involves kneeling, the
	lower leg area should be protected by protective trousers.

Information on basic physical and o General Information	chemical properties	
Appearance: Form:	Pastv	
Colour:	Whitish	
Smell:	Characteristic	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Not determined	
Initial boiling point and boiling ra	nge: >200 °C	
Flash point:	151 °C	



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Auto-ignition temperature:	460 °C	
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Steam pressure:	Not determined.	
Density at 20 °C	1.2 g/cm <sup>3</sup>	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
Other information		
	uther relevant information available.	

10 Stability and reactivity	
· Reactivity · Chemical stability	No further relevant information available.
Thermal decomposition / conditions to be avoided: Possibility of hazardous	No decomposition if used according to specifications.
reactions	No dangerous reactions known
Conditions to avoid	No further relevant information available.
<ul> <li>Incompatible materials:</li> <li>Hazardous decomposition</li> </ul>	No further relevant information available.
products:	No dangerous decomposition products known

## 11 Toxicological information

Information on toxicological effects
 Acute toxicity

· LD/LC50	· LD/LC50 values that are relevant for classification:		
CAS: 1675-54-3 epoxide derivates			
Dermal LD50 23000 mg/kg (rabbit)			
CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2'- [methylenebis(2,1-phenyleneoxymethylene)]dioxirane			
Oral	LD50	>2000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
		(Contd. on page 8)	

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			(Contd. of page 7)
CAS: 686	09-97-2 Ox	kirane, mol	no[(C12-14-alkyloxy)methyl] derivatives
Oral	LD50	17100 mg/	/kg (rat)
CAS: 134	63-67-7 tit	anium diox	<i>kide</i>
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>10000 mg/kg (rabbit)	
Inhalative	alative LC50/4 h >6.8 mg/l (rat)		
Skin corre Serious e Respirato sensitisat Additiona informatio	ye damag ry or skin tion I toxicolog	e/irritation	Irritant for skin and mucous membranes. No irritant effect. Sensitization possible by skin contact. The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant
CMR effect mutageni reproduct	city and to		Carc. 2

# **12 Ecological information**

CAS: 1675	-54-3 epoxide derivates
IC50	>42.6 mg/l (Bak)
LC50/96h	2 mg/l (Oncorhynchus mykiss)
EC50/48h	1.8 mg/l (Daphnia magna)
ErC50/72h	11 mg/l (Selenastrum capricornutum)
040. 9000	-36-5 Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2' [methylenebis(2,1-phenyleneoxymethylene)]dioxirane
LC50/96h	>100 mg/l (Daphnia magna)
EC50/96h	>100 mg/l (Leucidus idus)
CAS: 6860	9-97-2 Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives
EbC50/72h	843 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>5000 mg/l (Oncorhynchus mykiss)
	1800 mg/l (Lepomis macrochirus)
EC50	>100 mg/l (BEL)
	500 mg/l (Pseudokirchneriella subcapitata)
NOEC	



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· Mobility in soil	No further relevant information available.
Ecotoxical effects:	
Remark:	Toxic for fish
Additional ecological informa	ation:
General notes:	Toxic for aquatic organisms
	Also poisonous for fish and plankton in water bodies.
	Do not allow product to reach ground water, water bodies or
	sewage system.
	Danger to drinking water if even small quantities leak into soil.
Results of PBT and vPvB ass	essment
PBT:	Not applicable.
vPvB:	Not applicable.
Other adverse effects	No further relevant information available.

<b>13 Disposal considerations</b>	

<ul> <li>Waste treatment methods</li> <li>Recommendation</li> </ul>	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
<ul> <li>Uncleaned packagings:</li> <li>Recommendation:</li> </ul>	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

UN-Number	111/2022
ADR, IMDG, IATA	UN3082
· UN proper shipping name	
ADR, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (epoxide derivates)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (epoxide derivates), MARIN POLLUTANT
Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances an articles.
Label	9
· IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
Packing group	
ADR, IMDG, IATA	///



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Environmental hazards:	
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and
	articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
Transport in bulk according to Ann	nex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	(-)
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS
-	SUBSTANCE, LIQUID, N.O.S. (EPOXIDI
	DERIVATES), 9, III

## 15 Regulatory information

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

<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous</li> <li>substances - ANNEX I</li> <li>Seveso category</li> <li>Qualifying quantity (tonnes)</li> <li>for the application of lower</li> </ul>	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment	
for the application of lower- tier requirements Qualifying quantity (tonnes)	200 t	
for the application of upper- tier requirements	500 t	(Contd. on page 11)



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Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet: Contact:	Environment protection department.
Abbreviations and acronyms: * Data compared to the previous version altered.	<ul> <li>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)</li> <li>ICAO: International Civil Aviation Organisation</li> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>ELINCS: European List of Notified Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (REACH)</li> <li>PNEC: Predicted No-Effect Concentration (REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> <li>Acute Tox. 5: Acute toxicity – Category 5</li> <li>Skin Irrit. 2: Skin corrosion/irritation – Category 2</li> <li>Serious eye damage/irritation – Category 1</li> <li>STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1</li> <li>STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 2</li> <li>Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3</li> </ul>
previous version altered.	AE