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Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 28 (replaces version 27)

Revision: 10.12.2024

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

· 1.1 Product identifier			
 Trade name 1.2 Relevant identified uses of the substance or mixture 	MC-Estripox - Komponente B		
and uses advised against Application of the substance	No further relevant information available.		
/ the mixture	Epoxy coating Hardening agent/ Curing agent		
 1.3 Details of the supplier of 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: 1.4 Emergency telephone 	msds@mc-bauchemie.de		
number:	Tel.: +49 / (0)700 24112112 (MCR)		
	Tel.: +1 872 5888271 (MCR)		
SECTION 2: Hazards ide	entification		
• 2.1 Classification of the sub • Classification according to F			
Acute Tox. 4 H302 Harmful if			
Skin Corr. 1A H314 Causes s	evere skin burns and eye damage.		
Eye Dam. 1 H318 Causes s	Eye Dam. 1 H318 Causes serious eye damage.		
Skin Sono 1 4217 May agus			

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

· 2.2 Label elements

- · Labelling according to
- **Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



Danger

· Signal word

(Contd. on page 2)

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· Hazard-determining		
components of labelling:	Benzyl alcohol	
	polymer amine te	erminated
	Polyoxypropylene	ediamine
	Isophorone diam	
 Hazard statements 	H302 Harmful if s	swallowed.
	H314 Causes se	vere skin burns and eye damage.
	H317 May cause	an allergic skin reaction.
 Precautionary statements 	P260	Do not breathe dusts or mists.
	P303+P361+P35	3 IF ON SKIN (or hair): Take off immediately all
		contaminated clothing. Rinse skin with water [or
		shower].
	P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for
		several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER/doctor.
	P321	Specific treatment (see on this label).
	P362+P364	Take off contaminated clothing and wash it before reuse.
· 2.3 Other hazards		
Results of PBT and vPvB as	sessment	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	
	······································	

SECTION 3: Composition/information on ingredients

Mixture consisting of the following components.

CAS: 100-51-6	Benzyl alcohol	30-60%
	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
EC number: 949-140-2	polymer amine terminated	10-30%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
CAS: 9046-10-0	Polyoxypropylenediamine	≥10-<25%
Reg.nr.: 01-2119557899-12	Skin Corr. 1B, H314; Aquatic Chronic 3, H412	
CAS: 15520-10-2	2-methylpentane-1,5-diamine	≥5-<10%
EINECS: 239-556-6	Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335	
CAS: 2855-13-2	Isophorone diamine	≥2.5-<3%
EINECS: 220-666-8 Reg.nr.: 01-2119514687-32	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
	Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	

^{• 3.2} Mixtures • Description:



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rade name MC-Estripox - Ko	omponente B	
		(Contd. of page 2
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	≥1-<2.5%
EINECS: 202-013-9 Reg.nr.: 2119560597-27	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	
· Additional information	For the wording of the listed hazard phrases refer to	section 16.
SECTION 4: First aid		
	d measures Remove contaminated clothing immediately. Cor	sult a doctor
· 4.1 Description of first ai	i d measures Remove contaminated clothing immediately. Cor symptoms occur. Move affected person to fresh air. Supply fresh air; seek medical advice if symptoms c	ccur.
 4.1 Description of first ai General information After inhalation 	i d measures Remove contaminated clothing immediately. Cor symptoms occur. Move affected person to fresh air. Supply fresh air; seek medical advice if symptoms o If unconscious, place in recovery position and seek	ccur. medical advice
• 4.1 Description of first ai • General information	i d measures Remove contaminated clothing immediately. Cor symptoms occur. Move affected person to fresh air. Supply fresh air; seek medical advice if symptoms c	ccur. medical advice
 4.1 Description of first ai General information After inhalation 	id measures Remove contaminated clothing immediately. Cor symptoms occur. Move affected person to fresh air. Supply fresh air; seek medical advice if symptoms o If unconscious, place in recovery position and seek In case of contact with skin, wash carefully with ple	ccur. medical advice nty of soap and

 4.2 Most important symptoms and effects, both acute and delayed

Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

• For safety reasons unsuitable extinguishing agents • 5.2 Special hazards arising	Water with a full water jet.
from the substance or mixture · 5.3 Advice for firefighters	No further relevant information available.
• Protective equipment:	Put on breathing apparatus.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures
 6.2 Environmental precautions:
 Prevent material from reaching sewage system, holes and cellars. (Contd. on page 4)



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6.3 Methods and material for	(Contd. of pag
	Absorb with liquid-binding material (sand, diatomite, acid binde
containinent and cleaning up.	universal binders, sawdust).
	Dispose of contaminated material as waste according to item 13.
	Ensure adequate ventilation.
6.4 Reference to other	One One time 7 for information and a for here dian
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.
SECTION 7: Handling an	d storage
7.1 Precautions for safe	
handling	Open and handle containers with care.
0	Ventilation measures are required in rooms without sufficient
	exchange (e.g. closed rooms),
	because the occupational exposure limit values (see chapter
	could be exceeded. This must be avoided.
	Wear suitable personal protective equipment (see section 8). Av
	contact with eyes, skin and clothing. Change contaminated
	damaged gloves and contaminated clothing immediately and wa
	skin immediately. Mix slowly, partially covering the mix
	container. Pour carefully and slowly when repotting. Observe
	BGBau technical data sheet and practical guide for handling ep
	resins.
Information about protection	
	Ensure sufficient air exchange and/or extraction in the work
against explosions and mes.	areas. Take precautionary measures to avoid electrosta
	discharges.
	-
-	e, including any incompatibilities
Storage	
Requirements to be met by storerooms and containers:	No special requirements.

· Further information about storage conditions: None. · Storage class 8A

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- · Components with critical
- values that require

monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. (Contd. on page 5)

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DNELs			(Contd. of pa
		enzyl alcohol	
Oral		4 mg/kg bw/Tag (ArL)	
Orai	DIVEL	20 mg/kg bw/Tag (Ark)	
Derma		8 mg/kg bw/day (ArL)	
Denna		40 mg/kg bw/day (Ark)	
Inholot			
IIIIaiali	IVE DINEL	22 mg/m ³ (ArL)	
<u> </u>	046 40 0	110 mg/m ³ (Ark)	
Oral		Polyoxypropylenediamine	
		0.04 mg/kg bw/Tag (ArL)	
Derma		2.5 mg/kg bw/day (ArL)	
		2 2-methylpentane-1,5-diamine	
Derma		1.5 mg/kg bw/day (ArL)	
Inhalati	ive DNEL	0.25 mg/m³ (ArL)	
		0.5 mg/m³ (Ark)	
		Isophorone diamine	
Oral		0.526 mg/kg bw/Tag (ArL)	
		20.1 mg/m³ (ArL)	
	-	,6-tris(dimethylaminomethyl)phenol	
		0.31 mg/m³ (ArL)	
PNECs			
		enzyl alcohol	
PNEC	-	/I (Marine water sediment)	
	0.1 mg/l (,	
	÷ .	esh water sediment)	
PNEC	0.456 mg	′kg dwt (Bod)	
	5.27 mg/k	g dwt (Fresh water sediment)	
CAS: 9	9046-10-0	Polyoxypropylenediamine	
PNEC	7.5 mg/l (Sewage Treatment Plant)	
	0.015 mg	/l (Fresh water)	
PNEC	0.0176 m	g/kg dwt (Bod)	
	0.125 mg	/kg dwt (Sediment)	
	0.132 mg/kg dwt (Fresh water sediment)		
CAS: 1	5520-10-2	2-methylpentane-1,5-diamine	
PNEC	0.042 mg	/I (Mew)	
	0.42 mg/l	(Freshwater)	
CAS: 2	2855-13-2	Isophorone diamine	
PNEC	0.006 mg	(I (Mew)	
	0.06 mg/l	(Freshwater)	
	-		(Contd. on pa

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	(Contd. of page 5)
PNEC 0.578 mg/kg dwt (Se	
5.784 mg/kg dwt (Fre	,
· · · · ·	nethylaminomethyl)phenol
PNEC 0.2 mg/l (Sewage Tr	eatment Plant)
0.0084 mg/l (Mew)	
0.084 mg/l (Freshwa	ter)
Additional information:	The lists that were valid during the compilation were used as basis.
[.] 8.2 Exposure controls	
Appropriate engineering	
controls	No further data; see section 7.
 Individual protection meas General protective and 	sures, such as personal protective equipment
hygienic measures	Keep away from food, drink and animal feed.
	Remove soiled, soaked clothing immediately.
	Wash hands before breaks and at the end of work.
	Avoid contact with eyes and skin.
Breathing equipment:	If workplace limit values cannot be complied with by ventilation
	measures or if rooms cannot be technically ventilated, respiratory
	protection must be worn: Use combination filter A1-P2 (brown/ white) in rooms that cannot be ventilated. If oxygen deficiency is
	expected, use self-contained breathing apparatus. Observe
	wearing time limits according to §9 (3) GefStoffV in conjunction
	with BGR 190.
Hand protection	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	You can find help with choosing gloves on the website https://
material of groveo	www.bgbau.de/fileadmin/Gisbau/Projekte.pdf
	For example, we recommend the Sol-vex 37-900 protective gloves
	from Ansell GmbH. The breakthrough time of the protective gloves
	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
	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: ≥ 480 min
	Butyl rubber:
	(Contd. on page 7)



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	(Contra. of page 6)
	Material thickness: ≥ 0.5 mm
	Penetration time: \geq 480 min
 Eye/face protection 	Tight-fitting safety goggles.
· ·	Safety goggles.
 Body protection: 	Protective clothing
	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.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chem	nical properties	
· General Information	incul properties	
· Colour:	Yellow	
· Smell:	Amine-like	
· Melting point/freezing point:	Not determined	
· Boiling point or initial boiling point and		
boiling range	205 °C	
· Lower and upper explosion limit	200 0	
· Lower:	1.3 Vol %	
· Upper:	13 Vol %	
· Flash point:	>100 °C	
· Auto-ignition temperature:	380 °C	
· pH at 20 °C	12.5	
· Viscosity:	12.0	
· Kinematic viscosity	Not determined.	
· dynamic at 20 °C:	195 mPas	
· Solubility	195111 85	
· Water:	Partly miscible	
· Steam pressure at 20 °C:	0.1 hPa	
· Density and/or relative density	0.1111 a	
· Density at 20 °C	1.02 g/cm³	
Density at 20°C	1.02 g/cm²	
[•] 9.2 Other information		
· Appearance:		
· Form:	Fluid	
 Important information on protection of hea 	lth	
and environment, and on safety.		
· Self-inflammability:	Product is not selfigniting.	
• Explosive properties:	Product is not explosive.	
Information with regard to physical haza	ard	
classes		
· Explosives	Void	
		(Oantel 1997 72 2)
		(Contd. on page 8)



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Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity • 10.1 Reactivity No further relevant information available.

· 10.1 Reactivity	No further relevant information available.
 10.2 Chemical stability 	
 Thermal decomposition / 	
conditions to be avoided:	No decomposition if used according to specifications.
· 10.3 Possibility of hazardous	
reactions	No dangerous reactions known
 10.4 Conditions to avoid 	No further relevant information available.
• 10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous	
decomposition products:	No dangerous decomposition products known

SECTION 11: Toxicological information

 \cdot 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Harmful if swallowed.

· LD/LC50 values that are relevant for classification:					
CAS: 100	CAS: 100-51-6 Benzyl alcohol				
Oral	LD50	1230 mg/kg (rat)			
	NOAEL 2nd year study	200 mg/kg (mouse)			
		200 mg/kg (rat)			
Dermal	LD50	2000 mg/kg (rabbit)			
Inhalative	LC50/4 h	>4178 mg/l (rat)			
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CAS: 904	6-10-0 Polyoxypropy	(Contd. of page 8
Oral	LD50	2855 mg/kg (Rat)
••••		2885 mg/kg (rat)
Dermal	LD50	2980 mg/kg (Kan)
Dennar	2000	2980 mg/kg (rabbit)
CAS: 155	20-10-2 2-methylpen	
Oral	LD50	
		1170 mg/kg (rat)
Dermal	LD50	1870 mg/kg (rabbit)
Inhalative		19.6 mg/l (rat)
	5-13-2 Isophorone di	
Oral	LD50	1030 mg/kg (ATE)
		1030 mg/kg (rat)
	NOAEL	250 mg/kg (rat)
Dermal	LD50	1840 mg/kg (rabbit)
		>2000 mg/kg (rat)
		1840 mg/kg (rabbit)
CAS: 90-7	72-2 2,4,6-tris(dimeth	ylaminomethyl)phenol
Oral	LD50	mg/kg (rat)
	NOAEL	15 mg/kg (rat)
	rritant effect: osion/irritation	Causes severe skin burns and eye damage.
		Causes severe skin burns and eye damage. Causes serious eye damage.
· Respirato		
sensitisat		May cause an allergic skin reaction.
	mutagenicity	Based on available data, the classification criteria are not met.
· Carcinog		Based on available data, the classification criteria are not met.
Reproductive toxicity		Based on available data, the classification criteria are not met.
STOT-single exposure		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
STOT-repeated exposure Aspiration hazard		Based on available data, the classification criteria are not met.
	mation on other haza	
- Endocrin	e disrupting properti	es
None of th	e ingredients is listed.	

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity:
- CAS: 100-51-6 Benzyl alcohol
- IC50/72h 700 mg/l (algae)
- LC50/96h 460 mg/l (Pimephales promelas)

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	10 ma/l (Lanamia)	(Contd. of page
CAS: 0046	10 mg/l (Lepomis I - 10-0 Polyoxyprop	
		yreneulannine
LC50/96h	15 mg/l (algae)	
	>15 mg/l (fish)	
EC50/48h	80 mg/l (daphnia)	ntono 1 E diamina
EC50/72h	• •	ntane-1,5-diamine
	5 (5 /	
EC50	1825 mg/l (fish)	
	19.8 mg/l (Daphnia	• /
	-13-2 Isophorone	diamine
LC50/96h	110 mg/l (fish)	
5050	110 mg/l (Leucidus	
EC50	1120 mg/l (Pseudo	omonas putida)
EC50/48h	23 mg/l (daphnia)	
NOFO	23 mg/l (Daphnia i	
NOEC	÷ .	esmus subspicatus)
	3 mg/l (Daphnia m	• /
ErC50//2h		lesmus subspicatus)
	>50 mg/l (algae)	
		thylaminomethyl)phenol
	84 mg/l (Desmode	smus subspicatus)
LC50/96h	175 mg/l (Cyp)	
NOFO	718 mg/l (Daphnia	magna)
NOEC	2 mg/l (BEL)	
40.0 Dansi		desmus subspicatus)
12.2 Persis degradabi		No further relevant information available.
	cumulative	
potential	••••••	No further relevant information available.
12.4 Mobil		No further relevant information available.
	ts of PBT and vPv	
PBT: vPvB:		Not applicable. Not applicable.
	crine disrupting	
properties		The product does not contain substances with endocrine disruption properties.
	adverse effects	
	ecological inform	
General no	nes:	Do not allow product to reach ground water, water bodies sewage system.
		(Contd. on page 1)



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allow product to reach sewage system.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

- Recommendation Must not be disposed of together with household garbage. Do not
- · Uncleaned packagings: · Recommendation:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

SECTION 14: Transport information

14.1 UN number or ID number ADR, IMDG, IATA	UN2735
14.2 UN proper shipping name ADR, IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (2 methylpentane-1,5-diamine Polyoxypropylenediamine)
14.3 Transport hazard class(es)	
ADR Class Label	8 (C7) Corrosive substances. 8
· IMDG, IATA · Class · Label	8 Corrosive substances. 8
14.4 Packing group ADR, IMDG, IATA	11
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Kemler Number: EMS Number: Segregation groups Stowage Category Segregation Code	Warning: Corrosive substances. 80 F-A,S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk accordi IMO instruments	ng to Not applicable.
	(Contd. on page 1



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Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (ÉQ)	Code: E2
(==)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S
-	(2-METHYLPENTANE-1,5-DIAMINE
	POLYOXYPROPYLENEDIAMINE), 8, 11

SECTION 15: Regulatory information

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

No further relevant information available.

[.] Poisons Act

No further relevant information availab

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· 15.2 Chemical safety

assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Relevant phrases

H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage.

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	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H319 Causes serious eye irritation.
	H332 Harmful if inhaled.
	H335 May cause respiratory irritation.
	H412 Harmful to aquatic life with long lasting effects.
	1412 Hanniul to aqualic life with long lasting enects.
 Department issuing data 	
specification sheet:	Environment protection department.
	RID: Règlement international concernant le transport des marchandis
	dangereuses par chemin de fer (Regulations Concerning the Internation
	Transport of Dangerous Goods by Rail)
	ICAO: International Civil Aviation Organisation
	ADR: Accord relatif au transport international des marchandises dangereuses p
	route (European Agreement Concerning the International Carriage of Dangero
	Goods by Road) IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association
	GHS: Globally Harmonised System of Classification and Labelling of Chemicals
	EINECS: European Inventory of Existing Commercial Chemical Substances
	ELINCS: European List of Notified Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	DNEL: Derived No-Effect Level (UK REACH)
	PNEC: Predicted No-Effect Concentration (UK REACH)
	LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	Acute Tox. 4: Acute toxicity – Category 4
	Skin Corr. 1A: Skin corrosion/irritation – Category 1A
	Skin Corr. 1B: Skin corrosion/irritation – Category 1B
	Skin Corr. 1C: Skin corrosion/irritation – Category 1C
	Skin Irrit. 2: Skin corrosion/irritation – Category 2
	Eye Dam. 1: Serious eye damage/eye irritation – Category 1
	Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1
	Skin Sens. 1B: Skin sensitisation – Category 1B
	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
	Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aqua hazard – Category 3
• * Data compared to the	
previous version altered.	