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Safety data sheet according to UK REACH

Printing date 11.04.2025

Version number 50 (replaces version 49)

Revision: 11.04.2025

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

Trade name	MC-DUR 1277 WV - Komponente A
Article number: 1.2 Relevant identified uses of the substance or mixture	39
and uses advised against Application of the substance	No further relevant information available.
/ the mixture	Epoxy impregnation
1.3 Details of the supplier of the supplier of the Manufacturer/Supplier:	he safety data sheet 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 identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to

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

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Hazard pictograms	(Contro	l. of page ′
	GHS02 GHS07 GHS08 GHS09	
Signal word	Danger	
Hazard-determining		
components of labelling:	Reaction mass of ethylbenzene and xylene 4,4'-Methylenediphenyldiglycidyl ether	
Hazard statements	H226 Flammable liquid and vapour.	
	H315 Causes skin irritation.	
	H319 Causes serious eye irritation.	
	H317 May cause an allergic skin reaction.	
	H335 May cause respiratory irritation.	
	H373 May cause damage to organs through prolonged or exposure.	repeate
	H304 May be fatal if swallowed and enters airways.	
	H411 Toxic to aquatic life with long lasting effects.	
Precautionary statements	P260 Do not breathe dust/fume/gas/mist/ spray.	vapour
	P301+P310 IF SWALLOWED: Immediately call a CENTER/ doctor.	POISO
	P321 Specific treatment (see on this label).	
	P331 Do NOT induce vomiting.	
	P303+P361+P353 IF ON SKIN (or hair): Take off immed contaminated clothing. Rinse skin with shower].	
	P305+P351+P338 IF IN EYES: Rinse cautiously with several minutes. Remove contact I present and easy to do. Continue rinsir	enses,
	P362+P364 Take off contaminated clothing and before reuse.	
	P403+P233 Store in a well-ventilated place. Keep tightly closed.	containe
Additional information:	EUH205 Contains epoxy constituents. May produce a reaction.	n allerg
2.3 Other hazards		
Results of PBT and vPvB as	ssessment	
PBT:	Not applicable.	
vPvR·	Not applicable	

- · vPvB:
- Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description:

Resin mixture with colouring agents. Mixture consisting of the following components.

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· Dangerous components:			
CAS: 1675-54-3	4,4'-Methylenediphenyldiglycidyl ether	30-60%	
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317		
EC number: 905-588-0	Reaction mass of ethylbenzene and xylene	30-60%	
Reg.nr.: 01-2119488216-32	Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1,		
01-2119486136-34	H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335		
CAS: 107-98-2	1-Methoxy-2-propanol	oanol <10%	
EINECS: 203-539-1	Flam. Liq. 3, H226; STOT SE 3, H336		
Reg.nr.: 01-2119457435-35-			
XXXX			
· Additional information	For the wording of the listed hazard phrases refer to section	on 16.	

SECTION 4: First aid measures

 4.1 Description of first aid 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.
 4.2 Most important sympt and effects, both acute ar 	
delayed	Advice for the doctor: Elementary aid, decontamination,

Auvice 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 wit water jet or alcohol-resistant foam.	h
 For safety reasons unsuitable extinguishing agents 5.2 Special hazards arising 		
from the substance or mixture	No further relevant information available. (Contd. on page	4)



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 5.3 Advice for firefighters 	
· Protective equipment:	

Put on breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and	
emergency procedures • 6.2 Environmental	Wear protective equipment. Keep unprotected persons away.
precautions:	Prevent material from reaching sewage system, holes and cellars.
6.3 Methods and material for	Absorb with liquid-binding material (sand, diatomite, acid binders,
containment and cleaning up	universal binders, sawdust).
	Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.
· 6.4 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.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling	Open and handle containers with care. Ventilation measures are required in rooms without sufficient air exchange (e.g. closed rooms), because the occupational exposure limit values (see chapter 8) could be exceeded. This must be avoided. 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.
 Information about protection against explosions and fires: 	Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic discharges.
 7.2 Conditions for safe storag Storage Requirements to be met by storerooms and containers: Further information about storage conditions: 	ye, including any incompatibilities No special requirements. Keep container tightly closed in a well-ventilated place.
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Storage class

		meters	
	ents wit		es that require monitoring at the workplace:
CAS: 107	-98-2 1	Methoxy-2-pro	panol
		value: 560 mg/r	
Lon Sk	ig-term	/alue: 375 mg/n	1 ³ , 100 ррт
DNELs			
Reaction	mass o	of ethylbenzene	e and xylene
Oral	DNEL	1.6 mg/kg bw/1	Fag (ArL)
		mg/kg bw/Tag	(Workers)
Dermal	DNEL	180 mg/kg bw/	day (ArL)
Inhalative	DNEL	211 mg/m³ (Ari	L)
CAS: 107	-98-2 1	Methoxy-2-pro	panol
Oral	DNEL	3.3 mg/kg bw/1	Fag (ArL)
Dermal		50.6 mg/kg bw	
Inhalative	DNEL	369 mg/m³ (Ar	L)
CASN	o. Desi	gnation of mate	erial % Type Value Unit
· Additiona	al Occu	pational Expos	sure Limit Values for possible hazards during processing:
CAS: 133	0-20-7	cylene	
		value: 441 mg/r	
	g-term BMGV	/alue: 220 mg/n	1°, 50 ppm
CAS: 100	-41-4 e	hylbenzene	
		value: 552 mg/r	
Lon Sk	ig-term	/alue: 441 mg/n	1 ³ , 100 ррт
Additiona	al infori	nation:	The lists that were valid during the compilation were used as bas
· 8.2 Expos	sure co	ntrols	
Appropri		ineering	
controls	Invata		No further data; see section 7.
· Individua · General p			s, such as personal protective equipment
hygienic			Keep away from food, drink and animal feed.
			Remove soiled, soaked clothing immediately.
			Wash hands before breaks and at the end of work.
Breathing	n equin		Avoid contact with eyes and skin. If workplace limit values cannot be complied with by ventilat
Dieaunių	g equip		measures or if rooms cannot be technically ventilated, respirat
			protection must be worn: Use combination filter A1-P2 (brow



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	expected, use self-contained breathing apparatus. Observ
	wearing time limits according to §9 (3) GefStoffV in conjunction
	with BGR 190.
· Hand protection	Selection of the glove material on consideration of the penetratio
hana protocion	times, rates of diffusion and the degradation
· Material of gloves	You can find help with choosing gloves on the website https
material of gloves	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
	can be found under point 8 "Penetration time of the glove materia
	The selection of a suitable glove depends not only on the materia
	but also on other quality features and varies from manufacturer
	manufacturer. As the product
	is a preparation of several substances, the resistance of glov
	materials cannot be calculated in advance and must therefore b
	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 glove
	are around 8 hours.
	The following applies to all other gloves:
	The exact breakthrough time must be obtained from the protectiv
	glove manufacturer and adhered to.
	Nitrile rubber
	Material thickness: \geq 0.40 mm
	Penetration time: \geq 480 min
	Butyl rubber: 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 wi
	epoxy resins. In addition to normal work clothing (long trouser
	long-sleeved shirt or T-shirt), disposable overalls, apron
	averabase cleave protectors at may be personary depending
	overshoes, sleeve protectors etc. may be necessary depending o
	the activity. Uncovered areas of skin should be avoided as far a

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Colour:
- · Smell:

Yellow Characteristic

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<i>Melting point/freezing point:</i> <i>Boiling point or initial boiling point and</i>	Not determined	
boiling range	136 °C (Reaction mass of ethylbenzene an	
	xylene)	
Lower and upper explosion limit		
Lower:	1 Vol % (Reaction mass of ethylbenzene and	
	xylene)	
Upper:	8 Vol % (Reaction mass of ethylbenzene and	
	xylene)	
Flash point:	25 °C	
Auto-ignition temperature:	184 °C	
pH	Not determined.	
Viscosity:		
Kinematic viscosity at 20 °C	14 s (DIN 53211/4)	
dynamic:	Not determined.	
Solubility		
Water:	Not miscible or difficult to mix	
Steam pressure at 20 °C:	8 hPa (Reaction mass of ethylbenzene an	
	xylene)	
Vapour pressure at 50 °C:	45 hPa	
Density and/or relative density		
Density at 20 °C	1.01 g/cm³	
0.2 Other information	-	
9.2 Other information		
Appearance:	Fluid	
Form:	Fluid	
Important information on protection of hea	ann	
and environment, and on safety.	Draduct is not calfirmiting	
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.	
Information with regard to physical haz		
Information with regard to physical haz classes		
classes Explosives	ard Void	
Information with regard to physical haz classes Explosives Flammable gases	ard Void Void	
classes Explosives Flammable gases Aerosols	ard Void	
classes Explosives Flammable gases	ard Void Void	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	ard Void Void Void Void Void Void	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	ard Void Void Void Void Void	
classes Explosives Flammable gases Aerosols	ard Void Void Void Void Void Void	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	ard Void Void Void Void Void Flammable liquid and vapour.	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	ard Void Void Void Void Void Flammable liquid and vapour. Void	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	ard Void Void Void Void Void Flammable liquid and vapour. Void Void	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	ard Void Void Void Void Void Flammable liquid and vapour. Void Void Void	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	ard Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	ard Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	ard Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void	
classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	ard Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void	

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Void	
Void	
Void	
	Void

0.1 Reactivity	No further relevant information available.
0.2 Chemical stability	
hermal decomposition /	
onditions to be avoided:	No decomposition if used according to specifications.
0.3 Possibility of hazardous	
actions	No dangerous reactions known
0.4 Conditions to avoid	No further relevant information available.
0.5 Incompatible materials:	No further relevant information available.
).6 Hazardous	
ecomposition products:	No dangerous decomposition products known

SECTION 11: Toxicological information

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

- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

LD/LC30	values tila	at are relevant for classification.	
CAS: 167	5-54-3 4,4	'-Methylenediphenyldiglycidyl ether	
Oral	LD50	11400 mg/kg (rat)	
Dermal	LD50	23000 mg/kg (rabbit)	
		>2000 mg/kg (rat)	
Reaction	mass of e	ethylbenzene and xylene	
Oral	LD50	3523-4000 mg/kg (rat)	
Dermal	LD50	1100 mg/kg (rabbit)	
Inhalative	LC50/4 h	11 mg/l (rat)	
CAS: 107-	-98-2 1-Me	ethoxy-2-propanol	
Oral	LD50	4016 mg/kg (rat)	
Dermal	LD50	13000 mg/kg (rabbit)	
Inhalative	LC50/4 h	54.6 mg/l (rat)	
· Primary in · Skin corre	rritant effe osion/irrita ye damag ory or skin tion I mutagen enicity ctive toxic	ect: fation Causes skin irritation. ge/irritation Causes serious eye irritation. May cause an allergic skin reaction. May cause an allergic skin reaction. May cause an allergic skin reaction. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.	

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· STOT-repeated exposure

(Contd. of page 8) May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Aspiration hazard

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

	· · ·		
· Aquatic to	•		
CAS: 1675	-54-3 4,4'-Methylene	ediphenyldiglycidyl ether	
LC50/72h	>11 mg/l (algae)		
IC50	>42.6 mg/l (Bak)		
LC50/96h	2 mg/l (Oncorhynch	us mykiss)	
	1.3 mg/l (fish)		
EC50/48h	2.1 mg/l (daphnia)		
	1.8 mg/l (Daphnia n	nagna)	
ErC50/72h	11 mg/l (Selenastru	m capricornutum)	
Reaction n	nass of ethylbenzer	ne and xylene	
EC50/72h	2.2 mg/l (Selenastru	ım capricornutum)	
LC50/96h	2.6 mg/l (Oncorhynchus mykiss)		
NOEC	16 mg/l (BEL)		
CAS: 107-9	98-2 1-Methoxy-2-pi	ropanol	
IC50	1000 mg/l (BEL)		
LC50/96h	6812 mg/l (Leucidus idus)		
LC50/48h	23300 mg/l (Daphnia magna)		
EC50/48h			
· 12.2 Persis	stence and		
degradabi	-	No further relevant information available.	
12.3 Bioac	cumulative		
potential		No further relevant information available.	
· 12.4 Mobili	ity in soli its of PBT and vPvB	No further relevant information available.	
· PBT:	IS OF FOT AND VEVE	Not applicable.	
· vPvB:		Not applicable.	
12.6 Endo	crine disrupting		
properties		The product does not contain substances with endocrine disrupting properties.	
	adverse effects		
	ecological informa		
· General no	otes:	Do not allow product to reach ground water, water bodies or sewage system.	
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Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- 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	11011120
ADR, IMDG, IATA	UN1139
<i>14.2 UN proper shipping name ADR</i>	COATING SOLUTION, ENVIRONMENTALLY HAZARDOUS
IMDG IATA	COATING SOLUTION, MARINE POLLUTANT COATING SOLUTION
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substances: Epoxide resin
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Kemler Number:	30
EMS Number:	F-E, <u>S-E</u>
Stowage Category	A
14.7 Maritime transport in bulk accordi	ing to
IMO instruments	Not applicable.



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• 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: 100
	ml
Transport category	3
 Tunnel restriction code 	D/E
·IMDG	
· Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 100
	ml
· UN "Model Regulation":	UN 1139 COATING SOLUTION, 3, III
5	ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

· Poisons Act

 Regulated explosives precurs 	sors
None of the ingredients is listed	
· Regulated poisons	
None of the ingredients is listed	
· Reportable explosives precur	sors
None of the ingredients is listed	
· Reportable poisons	
None of the ingredients is listed	
· Directive 2012/18/EU	
· Qualifying quantity (tonnes)	
for the application of lower-	
tier requirements	200 t
· Qualifying quantity (tonnes)	
for the application of upper-	
tier requirements	500 t
· 15.2 Chemical safety	
assessment:	A Chemical Safety Assessment has not been carried out.

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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 H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. · Department issuing data specification sheet: Environment protection department. RID: Règlement international concernant le transport des marchandises · Abbreviations and acronyms: dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 • * Data compared to the previous version altered. GB