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

Printing date 09.03.2024 Version number 24 (replaces version 23) Revision: 09.03.2024

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

· 1.1 Product identifier

· Trade name MC-DUR rapid - Komponente B

970 · Article number:

· 1.2 Relevant identified uses of the substance or mixture

and uses advised against No further relevant information available.

· Application of the substance

/ the mixture Epoxy coating

Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

MC-Bauchemie Müller GmbH & Co. KG Manufacturer/Supplier:

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:

number:

1.4 Emergency telephone

Tel.: +49 / (0)700 24112112 (MCR)

Tel.: +1 872 5888271 (MCR)

msds@mc-bauchemie.de

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction.

Aguatic Chronic 3 H412 Harmful to aguatic 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.

· Hazard pictograms



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· Signal word

Danger

· Hazard-determining

· Hazard statements

components of labelling: Benzyl alcohol

1,3-Cyclohexanedimethanamine polymer amine terminated

Formaldehyde, oligomeric reaction products with 3,3'-

iminodi(propylamine)

3-aminomethyl-3,5,5-trimethylcyclohexylamine 2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid

m-phenylenebis(methylamine) H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

• **Precautionary statements** P260 Do not breathe dusts or mists.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or

shower].

P305+P351+P338 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 assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components:		
CAS: 100-51-6	Benzyl alcohol	10-30%
	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: 2579-20-6	1,3-Cyclohexanedimethanamine	≥10-<25%
EINECS: 219-941-5	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox.	
Reg.nr.: 01-2119543741-41-	4, H312; Skin Sens. 1, H317; Aquatic Chronic 3,	
XXXX	H412	

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CAS: 61788-44-1 EINECS: 262-975-0	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin	≥10-<25%
	Sens. 1, H317	
CAS: 161278-35-9	Formaldehyde, oligomeric reaction products with 3,3'-iminodi(propylamine) Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	10-30%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50	m-phenylenebis(methylamine) Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥1-<2.5%
CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	≥1-<2.5%
CAS: 64-17-5	Ethanol (ethyl alcohol) Flam. Liq. 2, H225; Eye Irrit. 2, H319	<2.5%
CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32	3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1A, H317 ATE: LD50 oral: 1030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C≥ 0.001 %	≥0.1-<0.5%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• **General information** Immediately remove any clothing contaminated with the product.

Take affected persons into the open air.

After inhalation
 After skin contact
 After eye contact
 Supply fresh air and call for doctor for safety reasons.
 Instantly wash with water and soap and rinse thoroughly.
 Rinse opened eye for several minutes under running water.

Call a doctor immediately.

· After swallowing Drink copious amounts of water and provide fresh air. Instantly call

for doctor.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents Use fire fighting measures that suit the environment.

· 5.2 Special hazards arising from the substance or

mixture No further relevant information available.

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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 Wear protective equipment. Keep unprotected persons away.

6.2 Environmental

precautions: Prevent material from reaching sewage system, holes and cellars.

· 6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

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 Store in cool, dry place in tightly closed containers.

Open and handle container with care.

· Information about protection

against explosions and fires: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

Storage

· Requirements to be met by

storerooms and containers: No special requirements.

· Information about storage in

one common storage facility: Not required.

· Further information about

storage conditions: Keep container tightly sealed.

Storage class 8A

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

CAS: 64-17-5 Ethanol (ethyl alcohol)

WEL Long-term value: 1920 mg/m³, 1000 ppm

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			(Contd. of pa
DNELs			
CAS: 10		enzyl alcohol	
Oral	DNEL	4 mg/kg bw/Tag (ArL)	
		20 mg/kg bw/Tag (Ark)	
Dermal	DNEL	8 mg/kg bw/day (ArL)	
		40 mg/kg bw/day (Ark)	
Inhalative	DNEL	22 mg/m³ (ArL)	
		110 mg/m³ (Ark)	
CAS: 25	79-20-6	1,3-Cyclohexanedimethanamine	
Inhalative	DNEL	0.00947 mg/m³ (Workers)	
CAS: 14	77-55-0	m-phenylenebis(methylamine)	
Dermal	DNEL	0.33 mg/kg bw/day (Workers)	
Inhalative	DNEL	1.2 mg/m³ (Workers)	
CAS: 90	-72-2 2,4	,6-tris(dimethylaminomethyl)phenol	
		0.31 mg/m³ (ArL)	
CAS: 28	55-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Oral	DNEL	0.526 mg/kg bw/Tag (ArL)	
Inhalative	DNEL	20.1 mg/m³ (ArL)	
PNECs	·		
CAS: 10	0-51-6 B	enzyl alcohol	
PNEC 0	.527 mg/	/I (Marine water sediment)	
0	.1 mg/l (l	Mew)	
1	mg/l (Fr	esh water sediment)	
PNEC 0	.456 mg/	/kg dwt (Bod)	
5	.27 mg/k	g dwt (Fresh water sediment)	
CAS: 25	79-20-6	1,3-Cyclohexanedimethanamine	
PNEC 0	.003 mg/	(Mew)	
PNEC 0	.033 mg/	/I (Fresh water)	
CAS: 14	77-55-0	m-phenylenebis(methylamine)	
PNEC 1	0 mg/l (k	(la)	
0	.009 mg/	(I (Mew)	
0	.094 mg/	/I (Freshwater)	
PNEC 0	.045 mg/	/kg dwt (Bod)	
0	.43 mg/k	g dwt (Marine water sediment)	
0	.43 mg/k	g dwt (Fresh water sediment)	
CAS: 90	-72-2 2,4	l,6-tris(dimethylaminomethyl)phenol	
PNEC 0	.2 mg/l (Sewage Treatment Plant)	
0	.0084 m	g/l (Mew)	
	001 ma	/l (Freshwater)	



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CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

PNEC 0.006 mg/l (Mew)

0.06 mg/l (Freshwater)

PNEC 0.578 mg/kg dwt (Sediment)

5.784 mg/kg dwt (Fresh water sediment)

• 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 measures, such as personal protective equipment

· General protective and

hygienic measures Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Avoid contact with the 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 Protective gloves.

Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

• Material of gloves

The selection of the suitable gloves does not only depend on the

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

application.

· Penetration time of glove

material

The exact breakthrough time must be obtained from the protective

glove manufacturer and must be observed.

· Eye/face protection

Not required.

· Body protection:

Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Yellow · Smell: Amine-like

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Melting point/freezing point: Not determined

Boiling point or initial boiling point and boiling range 205.4 °C (CAS: 100-51-6 Benzyl alcohol)

· Lower and upper explosion limit

· Lower: 1.3 Vol % (CAS: 100-51-6 Benzyl alcohol) · Upper: 13 Vol % (CAS: 100-51-6 Benzyl alcohol)

· Flash point: 98 °C

· pH Not determined.

· Viscosity: Kinematic viscosity Not determined.

· dynamic: Not determined. Solubility

· Water: Not miscible or difficult to mix

· Steam pressure at 20 °C: 0.1 hPa (CAS: 100-51-6 Benzyl alcohol)

Vapour pressure at 50 °C: 0.7 hPa

Density and/or relative density

Density at 20 °C 1.08 g/cm³

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

· Self-inflammability: Product is not selfigniting. Product is not explosive. Explosive properties:

· Information with regard to physical hazard

classes · Explosives Void Flammable gases Void · Aerosols Void Void · Oxidising gases · 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



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SECTION 10: Stability and reactivity

· 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

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

Acute tox		armful if swallowed.
	values that are relevan	t for classification:
	-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)
CAS: 257	9-20-6 1,3-Cyclohexane	edimethanamine
Oral	LD50	700 mg/kg (rat)
Dermal	LD50	1700 mg/kg (rat)
CAS: 147	7-55-0 m-phenylenebis	(methylamine)
Oral	LD50	1180 mg/kg (mouse)
		930 mg/kg (rat)
Dermal	LD50	>3100 mg/kg (rabbit)
CAS: 90-7	72-2 2,4,6-tris(dimethyla	aminomethyl)phenol
Oral	LD50	mg/kg (rat)
	NOAEL	15 mg/kg (rat)
CAS: 64-1	17-5 Ethanol (ethyl alco	hol)
Oral	LD50	7060 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>20 mg/l (rat)
CAS: 285	5-13-2 3-aminomethyl-3	3,5,5-trimethylcyclohexylamine
Oral	LD50	1030 mg/kg (ATE)
		1030 mg/kg (rat)

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	NOAEL	250 mg/kg (rat)	
Dermal	LD50	1840 mg/kg (rabbit)	
		>2000 mg/kg (rat)	

Causes severe skin burns and eye damage. · Skin corrosion/irritation

· Serious eye damage/irritation Causes serious eye damage.

· Respiratory or skin

May cause an allergic skin reaction. sensitisation

· Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity 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. · STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

· Endocrine disrup	oting properties	
CAS: 61788-44-1	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid	List II
CAS: 78-93-3	butanone	List II

SECTION 12: Ecological information

Aquatic to	oxicity:	
	51-6 Benzyl alcohol	
IC50/72h	700 mg/l (algae)	
LC50/96h	460 mg/l (Pimephales promelas)	
	10 mg/l (Lepomis macrochirus)	
CAS: 2579	2-20-6 1,3-Cyclohexanedimethanamine	
EC50/24h	90 mg/l (Pseudokirchneriella subcapitata)	
EC50	90 mg/l (Pseudomonas putida)	
LC50/48h	130 mg/l (Leucidus idus)	
CAS: 1477	7-55-0 m-phenylenebis(methylamine)	
IC50/72h	12 mg/l (algae)	
EC50/72h	12 mg/l (Scenedesmus subspicatus)	
LC50/96h	>100 mg/l (Oncorhynchus mykiss)	
	87.6 mg/l (Ory)	
EC50/48h	15.2 mg/l (Daphnia magna)	
CAS: 90-7	2-2 2,4,6-tris(dimethylaminomethyl)phenol	
EC50/72h	84 mg/l (Desmodesmus subspicatus)	
LC50/96h	175 mg/l (Cyp)	
	718 mg/l (Daphnia magna)	
NOEC	2 mg/l (BEL)	



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	6.25 mg/l (Desmodesmus subspicatus)
CAS: 64-17	7-5 Ethanol (ethyl alcohol)
EC50/24h	858 mg/l (Artemia salina)
LC50/24h	11200 mg/l (Salmo gairdneri)
LC50/96h	15300 mg/l (Pimephales promelas)
EC50/4h	5800 mg/l (Paramaecium caudatum)
LC50/48h	5012 mg/l (Ceriodaphnia dubia)
EC50/48h	>10000 mg/l (Daphnia magna)
EC50/3d	275 mg/l (Chlorella vulgaris)
EC10/3d	11.5 mg/l (Chlorella vulgaris)
CAS: 2855	-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine
LC50/96h	110 mg/l (Leucidus idus)
EC50	1120 mg/l (Pseudomonas putida)
EC50/48h	23 mg/l (Daphnia magna)
NOEC	1.5 mg/l (Desmodesmus subspicatus)
	3 mg/l (Daphnia magna)
ErC50/72h	>50 mg/l (Desmodesmus subspicatus)

12.2 Persistence and

degradability No further relevant information available.

· 12.3 Bioaccumulative

potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

· 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

· 12.6 Endocrine disrupting

properties For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

· Additional ecological information:

• General notes: Do not allow product to reach ground water, water bodies or

sewage system.

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.

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· Uncleaned packagings:

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

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. (1, Cyclohexanedimethanamine, Formaldehydoligomeric reaction products with 3,3 iminodi(propylamine))
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	II
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	ing to Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 n
Transport category Tunnel restriction code	2 E

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·IMDG

· 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

· UN "Model Regulation": UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.

(1,3-CYCLOHEXANEDIMETHANAMINE, FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 3,3'-

IMINODI(PROPYLAMINE)), 8, II

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

· 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 H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

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.

H411 Toxic to aquatic life with long lasting effects.

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H412 Harmful to aquatic life with long lasting effects.

Department issuing data specification sheet:

Environment protection department.

Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises 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)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

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. 1A: Skin sensitisation – Category 1A Skin Sens. 1B: Skin sensitisation - Category 1B

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic

hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic

hazard - Category 3

· * Data compared to the previous version altered.

GB