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

Printing date 15.03.2025 Version number 30 (replaces version 29) Revision: 15.03.2025

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

· 1.1 Product identifier

· Trade name Mycoflex Resyst Adhesive - Komponente B

· Article number: 3367

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

· 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:

nt: msds@mc-bauchemie.de

1.4 Emergency telephone

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

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 CLP regulation.

· Hazard pictograms



GHS05 GHS07



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· Signal word

Danger

· Hazard-determining

components of labelling: polymer amine terminated

Isophorone diamine Benzyl alcohol

m-phenylenebis(methylamine) Phenol, mono- und distyrolisiert

Hydrocarbons, C9-unsaturated, polymerised

Tetraethylenepentamine

· Hazard statements 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.

Determination of endocrine-disrupting properties

CAS: 69-72-7 salicylic acid List II; III

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Binding agent with colouring agents.

Mixture consisting of the following components.

Dangerous components:

EC number: 949-140-2 polymer amine terminated

30-60%

Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317

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CAS: 100-51-6	Benzyl alcohol	ontd. of page 2 10-30%
EINECS: 202-859-9	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32	Isophorone diamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412 ATE: LD50 oral: 1030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	≥10-<25%
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	≥10-<25%
CAS: 90640-66-7 EINECS: 292-587-7 Reg.nr.: 01-2119487290-37	Tetraethylenepentamine Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	<i>≥</i> 5-<10%
EC number: 701-443-9	Phenol, mono- und distyrolisiert Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1A, H317	≥2.5-<10%
CAS: 71302-83-5 EC number: 701-299-7	Hydrocarbons, C9-unsaturated, polymerised Asp. Tox. 1, H304; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	≥2.5-<5%
CAS: 69-72-7 EINECS: 200-712-3	salicylic acid Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302	<1%

SECTION 4: First aid measures

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 symptoms and effects, both acute and

delayed Advice for the doctor: Elementary aid, decontamination,

symptomatic treatment.

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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

Water with a full water jet.

· 5.2 Special hazards arising from the substance or

mixture

Formation of toxic gases is possible during heating or in case of

fire

Can be released in case of fire

Nitrogen oxides (NOx) Carbon monoxide (CO)

· 5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

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:
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.

Prevent material from reaching sewage system, holes and cellars.

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

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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 storage, including any incompatibilities

·Storage

· Requirements to be met by

storerooms and containers: No special requirements.

· Further information about

storage conditions: Caution when reopening containers with broken seal.

Protect from heat and direct sunlight.

· Storage class 8A

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components w	∕ith critical v	alues that	require monit	toring at t	he workplace:

CAS: 1477-55-0 m-phenylenebis(methylamine)

OEL (Ireland) Long-term value: 0.1 mg/m³

· DNELs

CAS: 100-51-6 Benzyl 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: 2855-13-2 Isophorone diamine

Oral DNEL 0.526 mg/kg bw/Tag (ArL)

Inhalative DNEL 20.1 mg/m³ (ArL)

CAS: 1477-55-0 m-phenylenebis(methylamine)

Dermal DNEL 0.33 mg/kg bw/day (Workers)

Inhalative DNEL 1.2 mg/m³ (Workers)

· PNECs

CAS: 100-51-6 Benzyl alcohol

PNEC 0.527 mg/l (Marine water sediment)

0.1 mg/l (Mew)

1 mg/l (Fresh water sediment)

PNEC 0.456 mg/kg dwt (Bod)

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	5.27 mg/kg dwt (Fresh water sediment)
CAS: 2	2855-13-2 Isophorone diamine
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)
CAS: 1	1477-55-0 m-phenylenebis(methylamine)
PNEC	10 mg/l (Kla)
	0.009 mg/l (Mew)
	0.094 mg/l (Freshwater)
PNEC	0.045 mg/kg dwt (Bod)
	0.43 mg/kg dwt (Marine water sediment)
	0.43 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 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://

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

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· 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:

Material thickness: ≥ 0.5 mm Penetration time: ≥ 480 min 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 chemical properties

· General Information

· Eye/face protection

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

Lower: 1.3 Vol %
Upper: 13 Vol %
Flash point: 101 °C
Auto-ignition temperature: 380 °C

· **pH** Not determined.

Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.900 mPas

· Solubility

Water: Partly miscibleSteam pressure at 20 °C: 0.1 hPa

· Density and/or relative density

Density at 20 °C 1.03 g/cm³

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· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

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

· Information with regard to physical hazard

classes

· Explosives Void Flammable gases Void Void · Aerosols · Oxidising gases Void · Gases under pressure Void Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void Void

· Pyrophoric liquids · 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 Void · Organic peroxides Void · Corrosive to metals · Desensitised explosives Void

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 Reacts with acids and oxidizing agents

· 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous

Nitrous vitriol gases decomposition products: Corrosive gases/vapours

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CAS: 100-	alues that are relevar	nt for classification:		
		it for classification.		
Oral .	51-6 Benzyl alcohol			
	LD50	1230 mg/kg (rat)		
	NOAEL 2nd year study	,		
		200 mg/kg (rat)		
Dermal	LD50	2000 mg/kg (rabbit)		
nhalative	LC50/4 h	>4178 mg/l (rat)		
CAS: 2855	5-13-2 Isophorone dia	mine		
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: 1477	7-55-0 m-phenylenebis	s(methylamine)		
Oral	LD50	1180 mg/kg (mouse)		
		930 mg/kg (rat)		
Dermal	LD50	>3100 mg/kg (rabbit)		
CAS: 69-7	2-7 salicylic acid			
Oral	LD50	891 mg/kg (rat)		
Dermal	LD50	>2000 mg/kg (rat)		
Primary iri	ritant effect:			
		Causes severe skin burns and eye damage.		
		Causes serious eye damage.		
Respirator		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		
Reproduct	tive toxicity E	Based on available data, the classification criteria are not met.		
		Based on available data, the classification criteria are not met		
STOT-repe Aspiration		Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met		



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SECTION 12: Ecological information

· 12.1 Toxic	ity				
· Aquatic toxicity:					
CAS: 100-5	CAS: 100-51-6 Benzyl alcohol				
IC50/72h	700 mg/l (algae)				
LC50/96h	460 mg/l (Pimephales promelas)				
	10 mg/l (Lepomis macrochirus)				
CAS: 2855	-13-2 Isophorone diamine				
LC50/96h	110 mg/l (fish)				
	110 mg/l (Leucidus idus)				
EC50	1120 mg/l (Pseudomonas putida)				
EC50/48h	23 mg/l (daphnia)				
	23 mg/l (Daphnia magna)				
NOEC	1.5 mg/l (Desmodesmus subspicatus)				
	3 mg/l (Daphnia magna)				
ErC50/72h	>50 mg/l (Desmodesmus subspicatus)				
	>50 mg/l (algae)				
CAS: 1477	-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)				

· 12.2 Persistence and

No further relevant information available. degradability

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.

EC50/48h | 15.2 mg/l (Daphnia magna)

· 12.6 Endocrine disrupting

properties For information on endocrine disrupting properties see section 11.

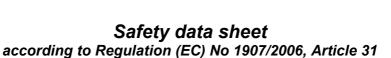
12.7 Other adverse effects

· 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.



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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

BE SURE. BUILD SURE.

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

	· · · · · · · · · · · · · · · · · · ·
· European	waste catalogue
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP6	Acute Toxicity
HP8	Corrosive
HP13	Sensitising
HP14	Ecotoxic

· Uncleaned packagings:

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

14.1 UN number or ID number ADR, IMDG, IATA	UN2289
14.2 UN proper shipping name ADR, IMDG, IATA	ISOPHORONEDIAMINE solution
14.3 Transport hazard class(es)	
ADR	
Class	8 (C7) Corrosive substances.
Label	8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IĂTA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Kemler Number:	80
EMS Number:	F-A,S-B
Stowage Category	A





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	•	•	-	
SG35 Stow "separated from" SGG1-	-acids			
				-

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14.7 Maritime transport in bulk according to IMO instruments Not applicable.

· Transport/Additional information:

Segregation Code

· 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 E

· IMDG

· Limited quantities (LQ) 5

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000

ml

UN 2289 ISOPHORONEDIAMINE SOLUTION, 8,

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SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/ legislation specific for the

substance or mixture

No further relevant information available.

REGULATION (EC) No 1907/2006 ANNEX XVII

1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety

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

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.H304 May be fatal if swallowed and enters airways.

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.

H361d Suspected of damaging the unborn child. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

· Department issuing data

specification sheet: Environment protection department.

· Date of previous version: 18.10.2021

· Version number of previous

version:

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 (REACH)

PNEC: Predicted No-Effect Concentration (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 Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B 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

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Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation – Category 1A Skin Sens. 1B: Skin sensitisation – Category 1B Repr. 2: Reproductive toxicity – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

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.

- IE