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

Printing date 11.04.2025 Version number 74 (replaces version 73) Revision: 11.04.2025

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

· 1.1 Product identifier

• Trade name <u>MC-DUR 1200 VK - Komponente B</u>

· Article number: 5

1.2 Relevant identified uses of the substance or mixture

and uses advised against No fo

No further relevant information available.

Application of the substance

/ the mixture

Epoxy impregnation

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:

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:

Benzyl alcohol Isophorone diamine Tetraethylenepentamine

Polymer with amino-functional groups

· 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:		
CAS: 100-51-6	Benzyl alcohol	30-60%
EINECS: 202-859-9	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
CAS: 2855-13-2	Isophorone diamine	≥10-<25%
EINECS: 220-666-8	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4,	
Reg.nr.: 01-2119514687-32	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 %	
EC number: 949-140-2	Polymer with amino-functional groups	10-30%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	

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CAS: 90640-66-7	Tetraethylenepentamine	ontd. of page 2 <i>≥10-</i> <25%
EINECS: 292-587-7 Reg.nr.: 01-2119487290-37	Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	
CAS: 15520-10-2	2-Methylpentamethylenediamine	≥1-<5%
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: 64-17-5	Ethanol (ethyl alcohol) Flam. Liq. 2, H225; Eye Irrit. 2, H319	<1.5%
CAS: 69-72-7	Salicylic acid	<1%
EINECS: 200-712-3	Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302	

SECTION 4: First aid measures

· 4.1 Description of 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.

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.

· 5.3 Advice for firefighters

• **Protective equipment:** Put on breathing apparatus.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and

emergency procedures · 6.2 Environmental

Prevent material from reaching sewage system, holes and cellars.

Wear protective equipment. Keep unprotected persons away.

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

precautions:

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 storage, including any incompatibilities

· Storage

· Requirements to be met by

storerooms and containers: No special requirements.

· Further information about

storage conditions: Protect from heat and direct sunlight.

· Storage class 8A

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		-	meters th critical values that require monitoring at the workplace:	
			hanol (ethyl alcohol)	
			ort-term value: 1000 ppm	
DNELS	S			
		·51-6 B	enzyl alcohol	
Oral			4 mg/kg bw/Tag (ArL)	
			20 mg/kg bw/Tag (Ark)	
Derma	I	DNEL	8 mg/kg bw/day (ArL)	
			40 mg/kg bw/day (Ark)	
Inhalat	ive	DNEL	22 mg/m³ (ArL)	
			110 mg/m³ (Ark)	
CAS: 2	285	5-13-2	Isophorone diamine	
Oral		DNEL	0.526 mg/kg bw/Tag (ArL)	
Inhalat	ive	DNEL	20.1 mg/m³ (ArL)	
CAS: 1	1552	20-10-2	2-Methylpentamethylenediamine	
Derma	al DNEL		1.5 mg/kg bw/day (ArL)	
Inhalat	ive	DNEL	0.25 mg/m³ (ArL)	
			0.5 mg/m³ (Ark)	
PNEC s	S			
CAS: 1	100-	·51-6 B	enzyl alcohol	
PNEC	0.5	27 mg/	(I (Marine water sediment)	
	0.1	mg/l (l	Mew)	
	1 n	ng/I (Fr	esh water sediment)	
PNEC	0.4	!56 mg/	(kg dwt (Bod)	
	5.27 mg/kg dwt (Fresh water sediment)			
			Isophorone diamine	
PNEC		•	(I (Mew)	
	0.06 mg/l (Freshwater)			
PNEC	IEC 0.578 mg/kg dwt (Sediment)			
	5.784 mg/kg dwt (Fresh water sediment)			
			? 2-Methylpentamethylenediamine	
PNEC		-	(I (Mew)	
			(Freshwater)	
Addition	ona	l infori	mation: The lists that were valid during the compilation were used as ba	



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· 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

· Penetration time of glove material

· Eye/face protection

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.



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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Colour: Yellow
 Smell: Amine-like
 Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range 205.3 °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: 100.4 °C

· Auto-ignition temperature: 380 °C (CAS: 2855-13-2 Isophorone diamine)

PH Not determined.

· Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.420 mPas

·Solubility

· Water: Not miscible or difficult to mix

• Steam pressure at 20 °C: 0.2 hPa (CAS: 100-51-6 Benzyl alcohol)

Void

· Vapour pressure at 50 °C: 0.7 hPa

Density and/or relative density

Density at 20 °C 1.06 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. Explosive properties: Product is not explosive.

· Information with regard to physical hazard

classes

· Oxidising liquids

· Explosives Void · 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

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· 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.

10.2 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 relevant	t for classification:	
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)	
CAS: 285	5-13-2 Isophorone dian	nine	
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: 155	CAS: 15520-10-2 2-Methylpentamethylenediamine		
Oral	LD50	1170 mg/kg (rat)	
Dermal	LD50	1870 mg/kg (rabbit)	
Inhalative	LC50/4 h	19.6 mg/l (rat)	
		(Contd. on pa	

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		(Contd. of page 8)
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: 69-7	2-7 Salicylic acid	
Oral	LD50	891 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

Primary irritant effect:

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

· Serious eye damage/irritation Causes serious eye damage.

· Respiratory or skin

sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
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· 11.2 Information on other hazards

· Endocrine dis	srupting properties	
CAS: 69-72-7	Salicylic acid	List II; III
CAS: 78-93-3	butanone	List II

SECTION 12: Ecological information

· 12.1 Toxicity

xicity:	
51-6 Benzyl alcohol	
700 mg/l (algae)	
460 mg/l (Pimephales promelas)	
10 mg/l (Lepomis macrochirus)	
-13-2 Isophorone diamine	
110 mg/l (fish)	
110 mg/l (Leucidus idus)	
1120 mg/l (Pseudomonas putida)	
23 mg/l (daphnia)	
23 mg/l (Daphnia magna)	
1.5 mg/l (Desmodesmus subspicatus)	
3 mg/l (Daphnia magna)	
>50 mg/l (Desmodesmus subspicatus)	
>50 mg/l (algae)	
5	51-6 Benzyl alcohol 700 mg/l (algae) 460 mg/l (Pimephales promelas) 10 mg/l (Lepomis macrochirus) 5-13-2 Isophorone diamine 110 mg/l (fish) 110 mg/l (Leucidus idus) 1120 mg/l (Pseudomonas putida) 23 mg/l (daphnia) 23 mg/l (Daphnia magna) 1.5 mg/l (Desmodesmus subspicatus) 3 mg/l (Daphnia magna) >50 mg/l (Desmodesmus subspicatus)

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CAS: 1552	CAS: 15520-10-2 2-Methylpentamethylenediamine		
EC50/72h	>100 mg/l (algae)		
EC50	1825 mg/l (fish)		
EC50/48h	19.8 mg/l (Daphnia magna)		
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)		

12.2 Persistence and

EC50/3d

EC10/3d

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.

EC50/48h | >10000 mg/l (Daphnia magna)

275 mg/l (Chlorella vulgaris)

11.5 mg/l (Chlorella vulgaris)

· 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.

· European	· 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			

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HP13 Sensitising
HP14 Ecotoxic (Contd. of page 10)

· Uncleaned packagings:

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

SECTION 14: Transport inform	
14.1 UN number or ID number ADR, IMDG, IATA	UN2735
14.2 UN proper shipping name ADR, IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.C (Tetraethylenepentamin ISOPHORONEDIAMINE)
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 according instruments	ding to Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category	1L Code: E2 Maximum net quantity per inner packaging: 30 n Maximum net quantity per outer packaging: 500 2



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· Tunnel restriction code Ε · 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 2735 AMINES, LIQUID, CORROSIVE, N.O.S. · UN "Model Regulation": (TETRAETHYLENEPENTAMINE. ISOPHORONEDIAMINE), 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.

· REGULATION (EC) No

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

CAS: 78-93-3 butanone

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

CAS: 78-93-3 butanone

3

3

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.

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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.

H335 May cause respiratory irritation.

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: 12.10.2021

· 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

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

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

Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1B: Skin sensitisation - Category 1B Repr. 2: Reproductive toxicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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.