

Page 1/13

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

Printing date 29.03.2024 Version number 33 (replaces version 32) Revision: 29.03.2024

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

· 1.1 Product identifier

Trade name MC-Injekt 1264 compact - Komponente B

· Article number: 2992

· 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 resin Injektion

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. 1A 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.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful 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.

(Contd. on page 2)



Page 2/13

(Contd. of page 1)

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

Revision: 29.03.2024 Printing date 29.03.2024 Version number 33 (replaces version 32)

Trade name MC-Injekt 1264 compact - Komponente B

· Hazard pictograms



· Signal word Danger

· Hazard-determining

components of labelling: 2-methylpentane-1,5-diamine

Isophorone diamine

polymer amine terminated

Benzyl alcohol

· Hazard statements H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements P260 Do not breathe dusts or mists.

P403+P233

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

contaminated clothing. Rinse skin with water [or

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. Store in a well-ventilated place. Keep container

tightly closed.

· 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: Binding agent with colouring agents.

Mixture consisting of the following components.

(Contd. on page 3)



Page 3/13

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

Printing date 29.03.2024 Version number 33 (replaces version 32) Revision: 29.03.2024

Trade name MC-Injekt 1264 compact - Komponente B

Dangerous components:	(Co	ntd. of page 2
CAS: 15520-10-2 EINECS: 239-556-6	2-methylpentane-1,5-diamine Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335	30-60%
CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32	66-8 Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4,	
EC number: 949-140-2	polymer amine terminated Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	10-30%
CAS: 100-51-6	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	10-30%
CAS: 9046-10-0 Reg.nr.: 01-2119557899-12	Polyoxypropylenediamine Skin Corr. 1B, H314; Aquatic Chronic 3, H412	<i>≥</i> 5-<10%
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-<1.5%

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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Page 4/13

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

Printing date 29.03.2024 Version number 33 (replaces version 32) Revision: 29.03.2024

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 3)

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: No special measures required.

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.

Only use in well-ventilated areas (e.g. open construction, outdoor areas), in rooms without air exchange (e.g. closed rooms, underground car parks) ventilation measures are required.

are required.

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. Open and handle containers with care.

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.

(Contd. on page 5)



Page 5/13

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

Printing date 29.03.2024 Version number 33 (replaces version 32) Revision: 29.03.2024

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 4)

· 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: Keep container tightly closed in a well-ventilated place.

· 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.

CAS: 155	20-10-2	? 2-methylpentane-1,5-diamine	
Dermal	DNEL	1.5 mg/kg bw/day (ArL)	
Inhalative	DNEL	0.25 mg/m³ (ArL)	
		0.5 mg/m³ (Ark)	
CAS: 285	5-13-2	Isophorone diamine	
Oral	DNEL	0.526 mg/kg bw/Tag (ArL)	
Inhalative	DNEL	20.1 mg/m³ (ArL)	
CAS: 100	-51-6 B	enzyl alcohol	
Oral	DNEL	4 mg/kg bw/Tag (ArL)	
		20 mg/kg bw/Tag (Ark)	
Dermal DNI	DNEL	8 mg/kg bw/day (ArL)	
		40 mg/kg bw/day (Ark)	
Inhalative	DNEL	22 mg/m³ (ArL)	
		110 mg/m³ (Ark)	
CAS: 904	6-10-0 l	Polyoxypropylenediamine	
Oral	DNEL	0.04 mg/kg bw/Tag (ArL)	
Dermal	DNEL	2.5 mg/kg bw/day (ArL)	
CAS: 90-7	72-2 2,4	,6-tris(dimethylaminomethyl)phenol	
Inhalative	DNEL	0.31 mg/m³ (ArL)	
PNECs			
CAS: 155	20-10-2	? 2-methylpentane-1,5-diamine	
PNEC 0.0	042 mg/	(I (Mew)	
0.4	12 mg/l	(Freshwater)	
CAS: 285	5-13-2	Isophorone diamine	
PNEC 0.0	006 ma/	(I (Mew)	





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

Printing date 29.03.2024 Version number 33 (replaces version 32) Revision: 29.03.2024

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 5) 0.06 mg/l (Freshwater) PNEC 0.578 mg/kg dwt (Sediment) 5.784 mg/kg dwt (Fresh water sediment) 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) 5.27 mg/kg dwt (Fresh water sediment) CAS: 9046-10-0 Polyoxypropylenediamine PNEC 7.5 mg/l (Sewage Treatment Plant) 0.015 mg/l (Fresh water) PNEC 0.0176 mg/kg dwt (Bod) 0.125 mg/kg dwt (Sediment) 0.132 mg/kg dwt (Fresh water sediment) CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol PNEC 0.2 mg/l (Sewage Treatment Plant) 0.0084 mg/l (Mew) 0.084 mg/l (Freshwater)

· 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 (Contd. on page 7)



Page 7/13

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

Revision: 29.03.2024 Printing date 29.03.2024 Version number 33 (replaces version 32)

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 6)

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:

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: Transparent · Smell: Amine-like · Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

193 °C (CAS: 15520-10-2 2-methylpentane-1,5boiling range

diamine)

Not determined.

· Lower and upper explosion limit

1.3 Vol % · Lower: 13 Vol % Upper: 82 °C · Flash point:

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

· pH

· Viscosity:

· Kinematic viscosity at 20 °C 19 s (DIN 53211/4)

(Contd. on page 8)



Page 8/13

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

Printing date 29.03.2024 Version number 33 (replaces version 32) Revision: 29.03.2024

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 7)

· dynamic:

Solubility

· Water: Not miscible or difficult to mix

· Steam pressure at 20 °C: 0.3 hPa (CAS: 15520-10-2 2-methylpentane-1,5-

diamine) 0.7 hPa

Not determined.

· Vapour pressure at 50 °C:

· Density and/or relative density

· Density at 20 °C 0.94 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

Void · Explosives · 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 Void flammable gases in contact with water Void · Oxidising liquids · Oxidising solids Void · Organic peroxides Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Corrosive to metals

Desensitised explosives

Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

Void

Void

· 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.

(Contd. on page 9)



Page 9/13

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

Printing date 29.03.2024 Version number 33 (replaces version 32) Revision: 29.03.2024

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 8)

· 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 toxicity Harmful if swallowed.

Acute tox	icity 11	attitut it Swalloweu.
· LD/LC50 v	values that are relevant	t for classification:
CAS: 155	20-10-2 2-methylpentar	ne-1,5-diamine
Oral	LD50	1170 mg/kg (rat)
Dermal	LD50	1870 mg/kg (rabbit)
Inhalative	LC50/4 h	19.6 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)
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: 904	6-10-0 Polyoxypropylei	nediamine
Oral	LD50	2855 mg/kg (Rat)
Dermal	LD50	2980 mg/kg (Kan)
CAS: 90-7	2-2 2,4,6-tris(dimethyla	aminomethyl)phenol
Oral	LD50	mg/kg (rat)
	NOAEL	15 mg/kg (rat)

· 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
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

· STOT-single exposure May cause respiratory irritation.

• 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.

(Contd. on page 10)



Page 10/13

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

Printing date 29.03.2024 Version number 33 (replaces version 32) Revision: 29.03.2024

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 9)

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· 12.1 I OXICI	пу
· Aquatic to	xicity:
CAS: 1552	0-10-2 2-methylpentane-1,5-diamine
EC50/72h	>100 mg/l (algae)
EC50	1825 mg/l (fish)
EC50/48h	19.8 mg/l (Daphnia magna)
CAS: 2855	-13-2 Isophorone diamine
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)
CAS: 100-5	51-6 Benzyl alcohol
IC50/72h	700 mg/l (algae)
LC50/96h	460 mg/l (Pimephales promelas)
	10 mg/l (Lepomis macrochirus)
CAS: 90-72	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)
	6.25 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 The product does not contain substances with endocrine disrupting

properties.

(Contd. on page 11)



Page 11/13

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

Printing date 29.03.2024 Version number 33 (replaces version 32) Revision: 29.03.2024

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 10)

· 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.

· 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. methylpentane-1,5-diamin 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	Warning: Corrosive substances. 80 F-A,S-B (SGG18) Alkalis A
· Segregation Code	SG35 Stow "separated from" SGG1-acids



Page 12/13

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

Revision: 29.03.2024 Printing date 29.03.2024 Version number 33 (replaces version 32)

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 11)

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable. · Transport/Additional information: · 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 · Tunnel restriction code · Remarks: 1Kg: LQ · 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": (2-METHYLPENTANE-1,5-DIAMINE, 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.

· 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

H302 Harmful if swallowed. · Relevant phrases

(Contd. on page 13)



Page 13/13

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

Revision: 29.03.2024 Printing date 29.03.2024 Version number 33 (replaces version 32)

Trade name MC-Injekt 1264 compact - Komponente B

(Contd. of page 12)

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.

H335 May cause respiratory irritation.

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

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 aquatic

hazard - Category 3

· * Data compared to the previous version altered.