

according to 1907/2006/EC, Article 31

Printing date 11.05.2018 Version number 7 Revision: 11.05.2018

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

1.1 Product identifier

KEMPEROL 1K-PUR - Trade name:

- 1.2 Relevant identified uses of the substance or mixture and uses advised

Identified use: intended for professional use only! Waterproofing

- Application of the substance / the mixture - 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier: KEMPER SYSTEM GmbH & Co. KG

Holländische Strasse 32-36

34246 Vellmar

Deutschland / Germany Telefon: +49 (0)561 / 8295-0 Telefax: +49 (0)561 / 8295-5110 E-Mail: MSDS@KEMPER-SYSTEM.COM

- Further information obtainable from: research & development

- 1.4 Emergency telephone number: Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen

Langenbeckstraße 1; Gebäude 601; 55131 Mainz

Tel. Nr.: +49 (0)6131 / 19 24 0

Universitätsmedizin der Johannes Gutenberg-Universität Mainz

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

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

Flam. Liq. 3 H226 Flammable liquid and vapour. Eye Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.





Danger

P501

- Signal word

- Hazard statements

- Hazard-determining components of

labelling:

Poly[oxy(methyl-1,2-ethanediyl)], alpha-hydro-omega-hydroxy-, polymer with 2,4-diisocyanato-1-

methylbenzene

4-methyl-m-phenylene diisocyanate

1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

Phenol, methylstyrenated

Isophorondiisocyanate homopolymer H226 Flammable liquid and vapour. H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Use explosion-proof [electrical/ventilating/lighting] equipment. P241

Do not breathe dust/fume/gas/mist/vapours/spray. P260

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.

Dispose of contents/container in accordance with local/regional/national/international regulations.

EUH204 Contains isocyanates. May produce an allergic reaction.

- Additional information: - 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

(Contd. on page 2)



according to 1907/2006/EC, Article 31

Printing date 11.05.2018 Version number 7 Revision: 11.05.2018

Trade name: KEMPEROL 1K-PUR

- vPvB: Not applicable. (Contd. of page 1)

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures

- Description:	Mixture: consisting of the following components.	
- Dangerous components:		
CAS: 37273-56-6 EC number: 609-378-7	Poly[oxy(methyl-1,2-ethanediyl)], alpha-hydro-omega-hydroxy-, polymer with 2,4-diisocyanato-1-methylbenzene Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 7727-43-7 EINECS: 231-784-4 Reg.nr.: 01-2119491274-35	barium sulphate, natural substance with a Community workplace exposure limit	25-50%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	hydrocarbons, C9, aromatic Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	12.5-25%
CAS: 140921-24-0 ELINCS: 411-700-4 Index number: 616-079-00-5 Reg.nr.: 01-2119890830-32	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate Skin Sens. 1, H317	2.5-10%
CAS: 68512-30-1 EINECS: 270-966-8 Reg.nr.: 01-2119555274-38	Phenol, methylstyrenated Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	0.5-2.5%
CAS: 53880-05-0 EC number: 931-312-3 Reg.nr.: 01-2119488734-24	Isophorondiisocyanate homopolymer Skin Sens. 1, H317; STOT SE 3, H335	0.5-2.5%
CAS: 584-84-9 EINECS: 209-544-5 Index number: 615-006-00-4 Reg.nr.: 01-2119486974-18	4-methyl-m-phenylene diisocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Carc. 2, H351; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	<0.5%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48

hours after the accident.

Do not leave affected persons unattended. Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

Immediately wash with water and soap and rinse thoroughly. Seek medical treatment in case of complaints.

- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Protect unharmed eye.

If symptoms persist consult doctor.

- 4.2 Most important symptoms and effects,

both acute and delayed

4.3 Indication of any immediate medical

attention and special treatment needed

No further relevant information available.

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- After skin contact:

- After swallowing:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. - Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing

Water with full jet

- 5.2 Special hazards arising from the

substance or mixture

Carbon monoxide (CO) Nitrogen oxides (NOx) Hydrogen cyanide (HCN)

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

- 5.3 Advice for firefighters

 Protective equipment: Do not inhale explosion gases or combustion gases.

(Contd. on page 3)





according to 1907/2006/EC, Article 31

Printing date 11.05.2018 Version number 7 Revision: 11.05.2018

Trade name: KEMPEROL 1K-PUR

(Contd. of page 2)

- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective

equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Keep away from ignition sources. Avoid contact with skin and eyes

- 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water. Prevent from spreading (e.g. by damming-in or oil barriers).

- 6.3 Methods and material for containment

and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Do not flush with water or aqueous cleansing agents See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

- 6.4 Reference to other sections

Store in cool, dry place in tightly closed receptacles. Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about fire - and explosion

protection:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

- 7.2 Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and

receptacles:

Store only in the original receptacle.

- Information about storage in one common

storage facility:

Further information about storage

conditions:

Store away from foodstuffs.

Protect from frost. Store in dry conditions. Keep container tightly sealed.

Recommended storage temperature: 5-30 °C

Storage class:

- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of

technical facilities: No further data; see item 7.

8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

7727-43-7 barium sulphate, natural WEL Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust

584-84-9 4-methyl-m-phenylene diisocyanate

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

Sen; as -NCO

Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Respiratory protection: When used properly and under normal conditions, breathing protection is not required

(Contd. on page 4)



according to 1907/2006/EC, Article 31

Printing date 11.05.2018 Version number 7 Revision: 11.05.2018

Trade name: KEMPEROL 1K-PUR

(Contd. of page 3)

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

Respiratory protection - Gas filters and combination filters according to EN 141

- Protection of hands:



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III. Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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 Recommended materials:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.5 mm

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.

- Penetration time of glove material The determined penetration times according to EN 374 part III are not performed under practical

conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is

recommended.

- As protection from splashes gloves made of

the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.1 mm

Penetration time (min.): <10

- Eye protection:



Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166 - Body protection:

Protective work clothing Impervious protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

General Information

- Appearance:

Form: Fluid

Colour: According to product specification

Odour: Aromatic - Odour threshold: Not determined. - pH-value: Not determined.

- Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: Undetermined.

31 °C - Flash point:

- Flammability (solid, gas): Not applicable.

 Decomposition temperature: Not determined. - Auto-ignition temperature: Product is not selfigniting

- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:

Lower: Not determined. Upper: Not determined. - Density at 20 °C: 1.45 g/cm³

Relative density Not determined. Vapour density Not determined. Evaporation rate Not determined.

(Contd. on page 5)



according to 1907/2006/EC, Article 31

Printing date 11.05.2018 Version number 7 Revision: 11.05.2018

Trade name: KEMPEROL 1K-PUR

		(Contd. of page 4)
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.	
- Partition coefficient: n-octanol/water:	Not determined.	
 Viscosity: Dynamic: Kinematic at 20 °C: 	Not determined. 119 s (ISO 6 mm)	
- Solvent content: VOC (EC) - 9.2 Other information	15.88 % No further relevant information available.	

SECTION 10: Stability and reactivity

- 10.1 Reactivity

- 10.2 Chemical stability

- Thermal decomposition / conditions to be

avoided:

- 10.3 Possibility of hazardous reactions

- 10.4 Conditions to avoid

- 10.5 Incompatible materials:

- 10.6 Hazardous decomposition products:

No further relevant information available.

No decomposition if used according to specifications.

Reacts with alcohols, amines, aqueous acids and alkalis. Reacts with water.

No further relevant information available. Amines, acids, alkalis, strong oxidants, alcohols

Hydrogen chloride (HCI)

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50	- LD/LC50 values relevant for classification:		
37273-56-	6 Poly[ox	y(methyl-1,2-ethanediyl)], alpha-hydro-omega-hydroxy-, polymer with 2,4-diisocyanato-1-methylbenzene	
Oral	LD50	>5,000 mg/kg (rat)	
7727-43-7	barium s	ulphate, natural	
Oral	LD50	>15,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
hydrocarl	bons, C9,	aromatic	
Oral	LD50	>3,492 mg/kg (rat) (OECD 401)	
Dermal	LD50	>3,160 mg/kg (rabbit) (OECD 402)	
140921-24	4-0 1,6-hex	kanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
68512-30-	1 Phenol,	methylstyrenated	
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	
53880-05-	0 Isophor	ondiisocyanate homopolymer	
Oral	LD50	>14,000 mg/kg (rat) (OECD 401)	
584-84-9	4-methyl-n	n-phenylene diisocyanate	
Oral	LD50	5,110 mg/kg (rat) (male; OECD 401)	
		4,130 mg/kg (rat) (female; OECD 401)	
Dermal	LD50	>9,400 mg/kg (rabbit) (OECD 402)	
Inhalative	LC50/4 h	107 mg/l (rat) (OECD 403)	
	LC50/1 h	0.47 mg/l (rat) (OECD 403)	
	LC50	0.47 mg/l (rat) (1h; OECD 403)	

- Primary irritant effect:

Based on available data, the classification criteria are not met. - Skin corrosion/irritation

- Serious eye damage/irritation Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. - Respiratory or skin sensitisation

May cause an allergic skin reaction.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- Germ cell mutagenicity Based on available data, the classification criteria are not met. - Carcinogenicity Based on available data, the classification criteria are not met.

(Contd. on page 6)





according to 1907/2006/EC, Article 31

Printing date 11.05.2018 Version number 7 Revision: 11.05.2018

Trade name: KEMPEROL 1K-PUR

- 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 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.

(Contd. of page 5)

SECTION 12: Ecological information

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- Aquatic to	xicity:
37273-56-6	6 Poly[oxy(methyl-1,2-ethanediyl)], alpha-hydro-omega-hydroxy-, polymer with 2,4-diisocyanato-1-methylbenzene
EC50	>10,000 mg/l (Belebtschlamm) (OECD 209)
7727-43-7	barium sulphate, natural
EC50	32 mg/l (Daphnia magna) (Ba-lon; 48 h)
hydrocarb	ons, C9, aromatic
LL 50	9.2 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)
EL50	2.9 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)
	3.2 mg/l (Daphnia magna) (48h; OECD 202)
EC50	>99 mg/l (Belebtschlamm) (10 min.; OECD 209)
140921-24	-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate
LC50/96 h	316 mg/l (Danio rerio (Zebrabärbling)) (OECD 203)
EC50	1.77 mg/l (Bakterien) (activated sludge; ISO 8192-1986 E)
IC50	43 mg/l (DESMODESMUS SUBSPICATUS) (72h; OECD 201)
EC50	193 mg/l (Daphnia magna) (48h; OECD 202)
68512-30-1	Phenol, methylstyrenated
ErC50	15 mg/l (daphnia) (OECD TG 201)
LC50/96 h	25.8 mg/l (daphnia) (OECD TG 203)
EC50	14-51 mg/l (daphnia) (OECD TG 202)
53880-05-0) Isophorondiisocyanate homopolymer
LC50/96 h	>1.51 mg/l (Cyprinus Carpio) (Richtlinie 67/548/EWG, Anhang V, C.1.)
EC50	>3.36 mg/l (Daphnia magna) (OECD 202)
EC50	>10,000 mg/l (Belebtschlamm) (OECD 209)
	-methyl-m-phenylene diisocyanate
NOEC	>1,000 mg/kg (Eisenia foetida) (14 days; OECD 207)
NOEC	1.1 mg/kg (Daphnia magna) (21d)
ErC50	4,300 mg/l (Clorella vulgaris) (96h; OECD 201)
	3,230 mg/l (Skeletonema costatum) (96h; OECD 201)
	133 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (OECD 203)
EC50	>100 mg/l (Belebtschlamm) (3h; OECD 209)
EC50	12.5 mg/l (Daphnia magna) (OECD 202)
EC50	>100 mg/l (Belebtschlamm)

- 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. - Ecotoxical effects:

Harmful to fish - Remark:

Additional ecological information:

- General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

- 12.5 Results of PBT and vPvB assessment

Not applicable. - PBT: vPvB: Not applicable.

- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation

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

(Contd. on page 7)



according to 1907/2006/EC, Article 31

Printing date 11.05.2018 Version number 7 Revision: 11.05.2018

Trade name: KEMPEROL 1K-PUR

Disposal according to official regulations

- European waste catalogue

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

- Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information - 14.1 UN-Number - ADR, ADN, IMDG - IATA UN1866 - 14.2 UN proper shipping name - ADR, ADN, IMDG Void - IATA **RESIN SOLUTION** - 14.3 Transport hazard class(es) - ADR, ADN, IMDG - Class Void - IATA Class 3 Flammable liquids. Label - 14.4 Packing group - ADR, IMDG Void - 14.5 Environmental hazards: - Marine pollutant: No - 14.6 Special precautions for user Not applicable. - Stowage Category - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. - Transport/Additional information: - ADR Kein Gut der Kl. 3 gemäß 2.2.3.1.5 ADR / 2.3.2.5 IMDG-Code - Remarks: ADR: Verpackung > 450 I = UN 1866 - Kl. 3 - HARZLÖSUNG, entzündbar -IMDG: Verpackung > 30 I = UN 1866 - KI.3 - HARZLÖSUNG, entzündbar - VPIII Außerhalb ADR / IMDG = UN 1866 - Kl. 3 - HARZLÖSUNG, entzündbar -Not goods of cl. 3 in accordance with 2.2.3.1.5 ADR / 2.3.2.5 IMDG-Code ADR: Packaging > 450 I = UN 1866 - cl. 3 - RESIN SOLUTION, flammable -IMDG: Packaging > 30 I = UN 1866 - cl. 3 - RESIN SOLUTION, flammable -**PGIII** Outside ADR / IMDG = UN 1866 - cl. 3 - RESIN SOLUTION, flammable -**PGIII** - UN "Model Regulation": Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances ANNEX I
- Seveso category

None of the ingredients is listed.

P5c FLAMMABLE LIQUIDS

(Contd. on page 8)



(Contd. of page 7)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.05.2018 Version number 7 Revision: 11.05.2018

Trade name: KEMPEROL 1K-PUR

- Qualifying quantity (tonnes) for the application of lower-tier requirements

Qualifying quantity (tonnes) for the application of upper-tier requirements

- REGULATION (EC) No 1907/2006 ANNEX

- National regulations:

- Information about limitation of use:

- 15.2 Chemical safety assessment:

Conditions of restriction: 3, 40

5,000 t

50.000 t

Employment restrictions concerning women of child-bearing age must be observed. Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles must be observed.

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

- Department issuing SDS:

Contact:

Abbreviations and acronyms:

research & development research & development

ADR: Accord européen sur le transport 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 Substance: ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 1: Acute toxicity – Category 1 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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

 Sources Internet:

> www.echa.com - www.baua.de

- www.gestis.itrust.de (IFA: Institute für Occupational Safety and

Health of the German Social Accident Insurance)

 * Data compared to the previous version altered.