

according to 1907/2006/EC, Article 31

Revision: 03.08.2022 Version number 5 (replaces version 4) Printing date 03.08.2022

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

- 1.1 Product identifier

KEMPEROL UP-I Inhibitor - Trade name: QJT6-90G6-D005-R4YF - UFI:

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

Identified use: intended for professional use only!

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

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

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: Medical Emergency information in case of poisoning:

Poison Information Center Mainz - 24 h - Phone: +49 (0) 6131 19240

(advisory service in German or English language)

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.

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. Repr. 2 H361d Suspected of damaging the unborn child.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 2 H411 Toxic 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.









- Signal word

- Hazard-determining components of

labelling:

Danger stvrene

maleic anhydride triphenyl phosphite

- Hazard statements H226 Flammable liquid and vapour.

H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H361d Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H372 Causes damage to the hearing organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.

P301+P310 - Precautionary statements IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

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.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable. - vPvB: Not applicable.

- Determination of endocrine-disrupting properties

128-37-0 2,6-di-tert-butyl-p-cresol

List II

SECTION 3: Composition/information on ingredients

- 3 2 Mixtures

- Description: Mixture: consisting of the following components.

· · · · · · · · · · · · · · · ·	g or are remaining of the remaining compensation	
- Dangerous compo	nents:	
	styrene	25-50%
EINECS: 202-851-5	Flam. Liq. 3, H226; Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	
CAS: 128-37-0	2,6-di-tert-butyl-p-cresol	2.5-10%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 101-02-0	triphenyl phosphite	≥0.1-<0.25%
EINECS: 202-908-4	STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 %	
	Eye Irrit. 2; H319: C ≥ 5 %	
CAS: 108-31-6	maleic anhydride	≥0.001-<0.1%
EINECS: 203-571-6	Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	

- 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: Seek medical treatment in case of complaints.

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.

- After skin contact: Seek medical treatment in case of complaints.

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

Protect unharmed eye. If symptoms persist consult doctor.

- After swallowing: - 4.2 Most important symptoms and effects,

both acute and delayed 4.3 Indication of any immediate medical

- After eye contact:

No further relevant information available

attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

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

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

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

Nitrogen oxides (NOx) Carbon monoxide (CO)

- 5.3 Advice for firefighters

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

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- 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 Avoid contact with skin and eyes Keep away from ignition sources.

- **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

- 6.4 Reference to other sections

and cleaning up:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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**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

- Storage:

- Requirements to be met by storerooms and

receptacles:

Store only in the original receptacle.

- Information about storage in one common

storage facility:

Store away from foodstuffs.

- Further information about storage

conditions:

Store in dry conditions. Protect from frost.

Recommended storage temperature: 5-30 °C

Keep container tightly sealed.

- Storage class:

3

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

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

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

100-42-5 styrene

OEL Short-term value: 170 mg/m³, 40 ppm Long-term value: 85 mg/m³, 20 ppm

128-37-0 2,6-di-tert-butyl-p-cresol

OEL Long-term value: 2 mg/m³

108-31-6 maleic anhydride

OEL Long-term value: 0.01 ppm

*Inhalable fraction and vapour, Sens

- Regulatory information
- Additional information:

OEL: 2021 CoP for the Safety, Health and Welfare at Work
The lists valid during the making were used as basis.

- 8.2 Exposure controls

Appropriate engineering controls
 Individual protection measures, such as 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

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Wash hands before breaks and at the end of work.

Avoid contact with the eves and skin.

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

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

Respiratory protection - Gas filters and combination filters according to (DIN EN 141)

- Hand protection

Protective gloves

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

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

Penetration time (min.): < 480

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.

The determined penetration times according to EN 16523-1:2015 are not performed under practical - Penetration time of glove material

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: $\geq 0.1 \text{ mm}$

Penetration time (min.): < 10

- Eye/face protection

Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166

- Body protection: Protective work clothing protective clothing (EN 13034)

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

According to product specification - Colour: - Odour: Characteristic

- Odour threshold: Not determined.

- Melting point/freezing point: Undetermined. - Boiling point or initial boiling point and boiling range 145 °C

- Flammability

Not applicable. - Lower and upper explosion limit

- Lower: Not determined. - Upper: Not determined.

- Flash point: 32 °C - Decomposition temperature: Not determined - pH Not determined.

- Viscosity: - Kinematic viscosity Not determined.

- Dynamic: Not determined. - Solubility

Not miscible or difficult to mix. - water: - Partition coefficient n-octanol/water (log value) Not determined.

- Density and/or relative density

- Density at 20 °C: 1.04 g/cm³ - Relative density Not determined. - Vapour density Not determined.

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- 9.2 Other information

- Appearance:

- Form:

Fluid

- Important information on protection of health and environment, and on

safety.

- Auto-ignition temperature:

Product is not selfigniting.

- Explosive properties: Product is not ser

Product is not explosive. However, formation of explosive air/vapour mixtures

are possible.

- Solvent separation test:

VOC (EC)Change in condition

36.80 %

- Evaporation rate

Not determined.

- Information with regard to physical hazard classes

- Explosives

- Aerosols

Void

- Flammable gases

Void

- Oxidising gases

Void

Void

- Gases under pressure

Void

- Flammable liquids

Flammable liquid and vapour.

- Flammable solids

Void

- Self-reactive substances and mixtures

Void

- Pyrophoric liquids

Void

- Pyrophoric solids

Void

- Self-heating substances and mixtures

Void

- Substances and mixtures, which emit flammable gases in contact with

water

Void

- Oxidising liquids

Void

- Oxidising solids

Void

- Organic peroxides

Void

- Corrosive to metals

Void

- Desensitised explosives

Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity

No further relevant information available.

- 10.2 Chemical stability

- Thermal decomposition / conditions to be

avoided:
- 10.3 Possibility of hazardous reactions

No decomposition if used according to specifications. No dangerous reactions known.

- 10.4 Conditions to avoid

No further relevant information available.

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- 10.6 Hazardous decomposition products:

- 10.5 Incompatible materials:

No further relevant information available.

No dangerous decomposition products known.

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SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

Passa on available data, the diagonicalism only met.			
- LD/LC50 \	- LD/LC50 values relevant for classification:		
100-42-5	100-42-5 styrene		
Oral LD50 5,000 mg/kg (rat)		5,000 mg/kg (rat)	
	NOAEL	2,000 mg/kg (rat) (female)	
		1,000 mg/kg (rat) (male)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	
Inhalative NOAEC 0.21 mg/l (rat) (steam, female. 104 weeks)		0.21 mg/l (rat) (steam, female. 104 weeks)	
	LOAEC 500 ppm (rat) (steam, male, 6 Hours)		
	LC50/4 h	11.8 mg/l (rat)	
128-37-0 2	2,6-di-tert-	butyl-p-cresol	
Oral	LD50	>5,000 mg/kg (rat)	
	NOAEL	25 mg/kg (rat) (28 days; 7days per Week)	
	NOAEL	100 mg/kg (rat) (male rat)	
		500 mg/kg (rat) (female rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
101-02-0 t	101-02-0 triphenyl phosphite		
Oral	LD50	1,590 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rab)	
		1,180 mg/kg (rat)	
Inhalative	LC50/1 h	>6.7 mg/l (rat) (OECD Guideline 403 (Acute Inhalation Toxicity))	
LC50 >6.7 mg/l (rat) (1h)		>6.7 mg/l (rat) (1h)	
108-31-6 r	108-31-6 maleic anhydride		
Oral		400 mg/kg (rat)	
Dermal		2,620 mg/kg (rabbit)	

- Skin corrosion/irritation Causes skin irritation. - Serious eye damage/irritation Causes serious eye irritation. - Respiratory or skin sensitisation May cause an allergic skin reaction.

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

- Reproductive toxicity Suspected of damaging the unborn child.

- STOT-single exposure May cause respiratory irritation.

- STOT-repeated exposure Causes damage to the hearing organs through prolonged or repeated exposure.

- Aspiration hazard May be fatal if swallowed and enters airways.

- Additional toxicological information:

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

Repr. 2

- 11.2 Information on other hazards

- Endocrine disrupting properties

- Endocrine disrupting properties		
128-37-0 2,6-di-tert-butyl-p-cresol	List II	
115-86-6 triphenyl phosphate	List II	

SECTION 12: Ecological information

- 12.1 loxicity				
- Aquatic	- Aquatic toxicity:			
100-42-5	100-42-5 styrene			
NOEC	1.01 mg/kg (daphnia) (21 days, frehwater)			
LC50	>1-<10 mg/l (Daphnia magna)			
EC50	4.7 mg/l (daphnia) (48 hours, freshwater)			
EC50	4.9 mg/l (ALGAE) (72 hours, freshwater)			
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EC50	>1-<10 mg/l (Daphnia magna)		
LC50	10 mg/l (fish) (96 hours, freshwa	nter)	
	4.02 mg/l (Pimephales promelas	s) (96h)	
128-37-0	2,6-di-tert-butyl-p-cresol		
EC50	>10,000 mg/l (Belebtschlamm) (3 Hours)	
	0.61 mg/l (Daphnia magna) (48h	n; OECD 202)	
NOEC	316 mg/l (Daphnia magna) (21d	; chronic; OECD 202)	
IC 50	>0.4 mg/l (ALGAE) (72h)		
IC50	>0.4 mg/l (DESMODESMUS SU	JBSPICATUS) (72h; EU C.3)	
101-02-0	triphenyl phosphite		
LC50/96	h 1 mg/l (fish)		
EC50	1 mg/l (daphnia) (48h)		
EC50	1 mg/l (ALGAE) (72h)		
- 12.2 Per	sistence and degradability	No further relevant information available.	
- 12.3 Bio	accumulative potential	No further relevant information available.	
	oility in soil	No further relevant information available.	
	ults of PBT and vPvB assessme	nt	
- PBT:		Not applicable.	
- vPvB:		Not applicable.	
	locrine disrupting properties	For information on endocrine disrupting properties see section 11.	
- 12.7 Other adverse effects - Remark:		Took for fish	
		Toxic for fish	
	al ecological information:	Water based stars 0 (Oamer Bandation) (Oak account to be a fine	
- 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.	

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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

rtocommondation		mac not be disposed together than neaderlot garbage. Do not allow product to reach cowage dystem.	
ſ	- European waste catalogue		
Ī	08 04 09*	04 09* waste adhesives and sealants containing organic solvents or other hazardous substances	
Γ	15 01 10*	packaging containing residues of or contaminated by hazardous substances	
	17 02 03	plastic	

- Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN number or ID number

- ADR, IMDG, IATA UN1866

- 14.2 UN proper shipping name

- ADR 1866 RESIN SOLUTION, ENVIRONMENTALLY HAZARDOUS - IMDG RESIN SOLUTION, MARINE POLLUTANT

- IATA **RESIN SOLUTION**

- 14.3 Transport hazard class(es)

- ADR



- Class 3 (F1) Flammable liquids.

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(Contd. of page 7) Label - IMDG - Class 3 Flammable liquids. - Label - IATA - Class 3 Flammable liquids. - 14.4 Packing group - ADR, IMDG, IATA - 14.5 Environmental hazards: Product contains environmentally hazardous substances: 2,6-di-tert-butyl-p-cresol - Marine pollutant: Yes Symbol (fish and tree) - Special marking (ADR): Symbol (fish and tree) - 14.6 Special precautions for user Warning: Flammable liquids. - Hazard identification number (Kemler code): 30 - EMS Number: F-E,S-E - Stowage Category - 14.7 Maritime transport in bulk according to IMO instruments Not applicable. - Transport/Additional information: - Limited quantities (LQ) - Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml - Transport category Tunnel restriction code D/E - Limited quantities (LQ) - Excepted quantities (EQ) Code: F1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml - UN "Model Regulation": UN 1866 RESIN SOLUTION, 3, III, ENVIRONMENTALLY HAZARDOUS

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 None of the ingredients is listed.

- Seveso category E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

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 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.

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- REGULATION (EU) 2019/1148

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- 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.

- 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 assessment:

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.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- Relevant phrases

H226 Flammable liquid and vapour.

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.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

- Department issuing SDS:

- Contact: - Date of previous version:

- Sources

research & development research & development 20.09.2021

- 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) 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. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
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 Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - long-term aquatic hazard — Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard — Category 2
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

- www.echa.europa.eu

- www.baua.de

IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:

- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp

- www.dguv.de/ifa/gestis/gestis-dnel-liste

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- * Data compared to the previous version altered.

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