

according to 1907/2006/EC, Article 31

Version number 9 (replaces version 8) Revision: 17.05.2022 Printing date 17.05.2022

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

- 1.1 Product identifier

KEMPERTEC FPO-Primer - Trade name: 8A99-S0J3-600K-3AX4 - 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

Medical Emergency information in case of poisoning: - 1.4 Emergency telephone number:

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. 2 H225 Highly flammable liquid and vapour. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.

Repr. 2 H361d Suspected of damaging the unborn child.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. 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.







GHS02

GHS07

- Signal word

- Hazard-determining components of

labelling:

toluene xylene ethylbenzene cyclohexane

Danger

- Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H373 May cause damage to the hearing organs through prolonged or repeated exposure. H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects.

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

Do NOT induce vomiting. P331

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.

- Additional information: EUH208 Contains p-tert-butylphenyl 1-(2,3-epoxy)propyl ether. May produce an allergic reaction.

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- 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: Mixture: consisting of the following components.

Description.	Mixture: consisting of the following components.		
- Dangerous components:			
CAS: 108-88-3 EINECS: 203-625-9	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	25-50%	
CAS: 1330-20-7 EINECS: 215-535-7	xylene Flam. Līq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥20-≤25%	
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	≥2.5-<10%	
CAS: 123-42-2	diacetone alcohol substance with a Community workplace exposure limit	2.5-10%	
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	2.5-10%	
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane Flam. Līq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STŌT SE 3, H336	≥0.5-<2.5%	
CAS: 3101-60-8 EINECS: 221-453-2	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether Aquatic Chronic 2, H411; Skin Sens. 1, H317	≥0.25-<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.

- After skin contact: 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.

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

both acute and delayed

- 4.3 Indication of any immediate medical attention and special treatment needed

If symptoms persist consult doctor.

No further relevant information available.

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

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

5.2 Special hazards arising from the

substance or mixture

Water with full jet

In case of fire, the following can be released:

CO2

Hydrogen chloride (HCI)

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

Nitrogen oxides (NOx) Carbon monoxide (CO)

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- 5.3 Advice for firefighters - Protective equipment: Wear self-contained respiratory protective device.

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

- 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

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Keep away from ignition sources.

- 6.2 Environmental precautions: Suppress gases/fumes/haze with water spray.

Inform respective authorities in case of seepage into water course or sewage system.

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

- 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. Keep respiratory protective device available.

- 7.2 Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and

receptacles: - Information about storage in one common

storage facility:

Store only in the original receptacle.

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

- 8.1 Control parameters

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

108-88-3 toluene

OEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 192 mg/m³, 50 ppm Sk, IOELV

1330-20-7 xylene

OEL Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm

Sk, ĪOELV

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(Contd. of page 3) 100-41-4 ethylbenzene OEL Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Sk. IOELV 123-42-2 diacetone alcohol OEL Long-term value: 240 mg/m³, 50 ppm 123-86-4 n-butyl acetate OEL | Short-term value: 723 mg/m³, 150 ppm Long-term value: 241 mg/m³, 50 ppm **IOELV** 110-82-7 cyclohexane OEL Long-term value: 700 mg/m³, 200 ppm - Regulatory information OEL: 2021 CoP for the Safety, Health and Welfare at Work - DNELs 1330-20-7 xylene Inhalative | Acute - systemic effects 221 mg/m³ (Worker) (GESTIS DNEL List (June 2018)) 221 mg/m3 (Worker) (GESTIS DNEL List (June 2018)) Long term - systemic effects 100-41-4 ethylbenzene Inhalative Long term - systemic effects 77 mg/m³ (Worker) (GESTIS DNEL List (June 2018))

- Additional information:

The lists valid during the making were used as basis.

- 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.

- 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 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.

Use suitable respiratory protective device in case of insufficient ventilation.

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

- Hand protection



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:

Butvl rubber. BR

Recommended thickness of the material: $\geq 0.5 \text{ mm}$

Penetration time (min.): < 480

The selection of the suitable gloves does not only depend on the material, but also on further marks of

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

quality and varies from manufacturer to manufacturer. The determined penetration times according to EN 16523-1:2015 are not performed under practical

- As protection from splashes gloves made of the following materials are suitable:

- Penetration time of glove material

Nitrile rubber, NBR

recommended.

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

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- Body protection: protective clothing (EN 13034) (Contd. of page 4)

SECTION 9: Physical and chemical properties	
- 9.1 Information on basic physical and chemical properties	
- General Information	
- Physical state	Fluid
- Colour:	Light yellow
- Odour:	Like aromatic solvents
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	Undetermined.
- Flammability	Not applicable.
- Lower and upper explosion limit - Lower:	Not determined
- Lower: - Upper:	Not determined.
- Flash point:	Not determined. 4 °C
- Decomposition temperature:	Not determined.
- pH	Not determined.
- Viscosity:	Tiot dotormirod.
- Kinematic viscosity at 20 °C	10 s (DIN 53211/4)
- Dynamic:	Not determined.
- Solubility	
- water:	Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value)	Not determined.
- Density and/or relative density	
- Density at 20 °C:	0.9 g/cm³
- Relative density	Not determined.
- Vapour density	Not determined.
- 9.2 Other information	
- Appearance:	
- Form:	Fluid
- Important information on protection of health and environment, and or	n
safety.	
- Auto-ignition temperature:	Product is not selfigniting.
- Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent separation test:	are possible.
- VOC (EC)	89.60 %
- Change in condition	
- Evaporation rate	Not determined.
- Information with regard to physical hazard classes	
- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Highly 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 - Oxidising liquids	Void Void
- Oxidising liquids - Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void





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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

- 10.4 Conditions to avoid - 10.5 Incompatible materials:

- 10.6 Hazardous decomposition products:

No decomposition if used according to specifications.

Reacts with peroxides.

No further relevant information available. No further relevant information available.

Carbon monoxide Carbon dioxide Nitrogen oxides (NOx)

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.			
- LD/LC50 v	- LD/LC50 values relevant for classification:				
108-88-3 toluene					
Oral	LD50	5,000 mg/kg (rat)			
Dermal	LD50	12,124 mg/kg (rabbit)			
Inhalative	LC50/4 h	28.1 mg/l (rat)			
1330-20-7	1330-20-7 xylene				
Oral	LD50	5,251 mg/kg (mouse)			
		4,300 mg/kg (rat)			
Dermal	LD50	>2,000 mg/kg (rabbit)			
Inhalative	LC50/4 h	21.7 mg/l (rat)			
100-41-4	100-41-4 ethylbenzene				
Oral	LD50	3,500 mg/kg (rat) (AMA Archives of Industrial Health. 14/387; 1956)			
Dermal	LD50	15,400 mg/kg (rabbit) (Food and Cosmetics Toxicology. 13/803; 1975)			
Inhalative	LC50/4 h	11 mg/l (ATE)			
123-86-4 r	n-butyl ac	etate			
Oral	LD50	10,760 mg/kg (rat)			
Dermal	LD50	14,112 mg/kg (rat)			
Inhalative	LC50/4 h	23.4 mg/l (rat) (OECD Guideline 403 (Acute Inhalation Toxicity))			
110-82-7	110-82-7 cyclohexane				
Oral	LD50	>5,000 mg/kg (rat)			
Dermal	LD50	>2,000 mg/kg (rabbit)			

- Skin corrosion/irritation Causes skin irritation.

- Serious eye damage/irritation Causes serious eye irritation. - Respiratory or skin sensitisation Based on available data, the classification criteria are not met. - Germ cell mutagenicity Based on available data, the classification criteria are not met. - Carcinogenicity Based on available data, the classification criteria are not met.

- Reproductive toxicity Suspected of damaging the unborn child.

- STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

- STOT-repeated exposure May cause 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)

- 11.2 Information on other hazards

Repr. 2

- Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information - 12.1 Toxicity				
- Aquatic toxicity: 1330-20-7 xylene				
			LC50/96	h 26.7 mg/l (Pimephales promelas)
LC50	2.6 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)			
EC50	2.2 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)			
IC50	2.2 mg/l (ALGAE)			
NOEC	157 mg/l (Belebtschlamm) (OECD 209)			
	1.17 mg/l (Ceriodaphnia dubia) (7d; US EPA 600/4-91/003)			
	>1.3 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (56d)			
IC50	1 mg/l (Daphnia magna) (24h; OECD 202)			
123-86-4	n-butyl acetate			
LC50/96	h 18 mg/l (PISCIS - Fisch) (OECD 203 (96 hr))			
NOEC	200 mg/l (DESMODESMUS SUBSPICATUS)			
EC50	44 mg/l (daphnia) (OECD 202 (48 hr))			
EC50	>100 mg/l (ALGAE)			
	647.7 mg/l (DESMODESMUS SUBSPICATUS)			
EC50	72.8 mg/l (daphnia)			
IC50	356 mg/l (Tetrahymena)			
	cyclohexane			
LC50	55 mg/l (Leuciscus idus melanotus) (48h)			
EC50	3.78 mg/l (Daphnia magna) (48h)			
EC50	200 mg/l (Photobacterium phosphoreum) (5 min.)			
EC50	>500 mg/l (DESMODESMUS SUBSPICATUS) (72 h)			

12.2 Persistence and degradability - 12.3 Bioaccumulative potential

No further relevant information available. No further relevant information available.

- 12.4 Mobility in soil

No further relevant information available.

- 12.5 Results of PBT and vPvB assessment

- PBT: - vPvB:

- 12.6 Endocrine disrupting properties

- 12.7 Other adverse effects - Remark:

- Additional ecological information:

- General notes:

Not applicable. Not applicable.

Harmful to fish

The product does not contain substances with endocrine disrupting properties.

Harmful to aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

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

Disposal according to official regulations

- European waste catalogue

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances 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 UN1263

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(Contd. of page 7) - 14.2 UN proper shipping name - ADR **1263 PAINT** - IMDG, IATA **PAINT** - 14.3 Transport hazard class(es) - ADR - Class 3 (F1) Flammable liquids. - Label - IMDG, IATA 3 Flammable liquids. - Class - Label - 14.4 Packing group - ADR, IMDG, IATA - 14.5 Environmental hazards: Not applicable. Warning: Flammable liquids. - 14.6 Special precautions for user - Hazard identification number (Kemler code): 33 - EMS Number: F-E,<u>S-E</u> - Stowage Category - 14.7 Maritime transport in bulk according to IMO instruments Not applicable. - Transport/Additional information: - Limited quantities (LQ) - Excepted quantities (EQ) Code: F2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml - Transport category - Tunnel restriction code D/E - Limited quantities (LQ) - Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml

UN 1263 PAINT, 3, II

Maximum net quantity per outer packaging: 500 ml

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Directive 2012/18/EU

- UN "Model Regulation":

Named dangerous substances - ANNEX I
 Seveso category
 None of the ingredients is listed.
 P5c FLAMMABLE LIQUIDS

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

5,000 t 50,000 t

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

REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3, 48, 57

- 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

108-88-3 toluene

3

3

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

108-88-3 toluene

- 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

Highly flammable liquid and vapour. H225

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

- Department issuing SDS:

- Contact:

research & development research & development 06.12.2021

- Date of previous version:

- Version number of previous version:

- Abbreviations and acronyms:

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)

DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 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 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 Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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 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

- * Data compared to the previous version altered.