

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 03.07.2024 Version number 14 (replaces version 13) Revision: 03.07.2024

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

- 1.1 Product identifier

**KEMPEROL 022 (A)** - Trade name: - UFI: 8YT9-Y0F3-M00K-EJYN

- 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

Waterproofing

- 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

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. 1B H360F May damage fertility.

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

- Hazard statements

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





GHS07 GHS08

- Signal word

Danger

- Hazard-determining components of

labelling:

oxirane, mono[(C12-14-alkyloxy)methyl] derivs

bis[4-(2,3-epoxypropoxy)phenyl]propane

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) are 3,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) are 3,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) are 3,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) are 3,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) are 3,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) are 3,2'-[methyleneoxymeth phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane

decarboxylating cashew nut shell liquid

H315 Causes skin irritation.

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

H360F May damage fertility.

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P280 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

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

regulations.

- Additional information: EUH205 Contains epoxy constituents. May produce an allergic reaction.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

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

#### **SECTION 3: Composition/information on ingredients**

- 3.2 Mixtures

- Description: Mixture: consisting of the following components.

Description.	Winkland. Conditioning of the following compenions.	
- Dangerous componer	nts:	
CAS: 68609-97-2 EINECS: 271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs Repr. 1B, H360F; Skin Irrit. 2, H315; Skin Sens. 1, H317	12.5-25%
CAS: 1675-54-3 EINECS: 216-823-5	bis[4-(2,3-epoxypropoxy)phenyl]propane  Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317  Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %  Skin Irrit. 2; H315: C ≥ 5 %	≥12.5-<25%
CAS: 7727-43-7 EINECS: 231-784-4	barium sulphate, natural substance with a Community workplace exposure limit	12.5-25%
EC number: 701-263-0	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane  Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥2.5-<10% 
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO2) substance with a Community workplace exposure limit	0.5-2.5%
CAS: 8007-24-7	decarboxylating cashew nut shell liquid  Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1A, H317	≥0.1-<0.5%
- Additional information	n: 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.

- After skin contact: 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.

- After swallowing:

If symptoms persist consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- 4.3 Indication of any immediate medical 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 agents:

- 5.2 Special hazards arising from the

Water with full jet

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.

- 6.2 Environmental precautions:

- 6.4 Reference to other sections

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

and cleaning up:

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

Dispose contaminated material as waste according to section 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

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

Prevent formation of aerosols.

Ensure adequate ventilation

- 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:

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:

7727-43-7 barium sulphate, natural

OEL Long-term value: 5 mg/m3

14808-60-7 Quartz (SiO2)

OEL Long-term value: 0.1 mg/m<sup>3</sup>

- Regulatory information OEL: 2024 CoP for the Safety, Health and Welfare at Work

- DNELs

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Inhalative Acute - systemic effects 3.6 mg/m³ (Worker) (GESTIS DNEL List (June 2018))

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

Inhalative | Acute - systemic effects | 12.25 mg/m³ (Worker) (GESTIS DNEL List (June 2018))

7727-43-7 barium sulphate, natural

Inhalative Acute - systemic effects 10 mg/m³ (Worker) (GESTIS DNEL List (June 2018))

- 8.2 Exposure controls

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

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- 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.

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

Use suitable respiratory protective device in case of insufficient ventilation.

Respiratory protection - Gas filters and combination filters according to (EN 14387)

- 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.

- Penetration time of glove material The determined penetration times according to EN 16523-1:2015 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/face protection

Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166

- Body protection: protective clothing (EN 13034)

### **SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties

- General Information

- Colour: According to product specification Characteristic

- Odour: - Odour threshold:

Not determined

- Melting point/freezing point:

Undetermined.

200 °C

- Boiling point or initial boiling point and boiling range - Flammability

Not applicable.

- Lower and upper explosion limit

Not determined

- Lower: - Upper:

Not determined.

- Flash point:

101 °C

- Decomposition temperature:

Not determined. Not determined.

- pH - Viscosity:

- Kinematic viscosity

Not determined.

- Dynamic: Not determined.

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- Solubility	· ·	
- water:	Not miscible or difficult to mix.	
- Partition coefficient n-octanol/water (log value)	Not determined.	
- Density and/or relative density	Tot dotominod.	
- Density at 20 °C:	1.2 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 o	n	
safety.		
- Ignition temperature:	Product is not selfigniting.	
- Explosive properties:	Product does not present an explosion hazard.	
- Solvent separation test:		
- VOC (EC)	2.60 %	
- 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	Void	
- Flammable solids	Void	
- Self-reactive substances and mixtures	Void	
- Pyrophoric liquids	Void	
- Pyrophoric solids	Void	
- Self-heating substances and mixtures	Void	
- Substances and mixtures, which emit flammable gases in contact with		
water	Void	
- Oxidising liquids	Void	
- 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: - 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.

Void

Void

No dangerous reactions known.

No further relevant information available. No further relevant information available. No dangerous decomposition products known.

### **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

- LD/LC50 values relevant for classification:

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

LD50 19,200 mg/kg (rat)

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Dermal	LD50 >4,5	00 mg/kg (rabbit)	
1675-54	4-3 bis[4-(2,	3-epoxypropoxy)phenyl]prop	pane
Oral	LD50 >2,0	00 mg/kg (rat) (OECD Guidelii	ne 401 (Acute Oral Toxicity))
Dermal	LD50 >2,0	00 mg/kg (rat) (OECD Guidelii	ne 402 (Acute Dermal Toxicity))
	1 1		eline 402 (Acute Dermal Toxicity))
7727-43	3-7 barium s	ulphate, natural	***
Oral	LD50 >15,	000 mg/kg (rat)	
Dermal	LD50 >2,0	00 mg/kg (rat)	
Reaction	on mass of 2	2.2'-[methylenebis(2.1-pheny	leneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and
		methoxy)benzyl]phenoxy}m	
Oral	LD50 >5,0	00 mg/kg (rat)	
Dermal	LD50 >2,0	00 mg/kg (rat)	
8007-24	4-7 decarbo	cylating cashew nut shell lic	uid
Oral	LD50 >2,0	00 mg/kg (rat) (OECD-guidline	423)
Dermal	LD50 1,10	) mg/kg (ATE)	
- Skin co	orrosion/irri	ation C	auses skin irritation.
- Serious	s eye damaç	e/irritation C	auses serious eye irritation.
- Respira	atory or skir	sensitisation N	lay cause an allergic skin reaction.
	cell mutager	icity B	ased on available data, the classification criteria are not met.
	ogenicity		ased on available data, the classification criteria are not met.
•	ductive toxic	-	lay damage fertility.
	- STOT-single exposure		ased on available data, the classification criteria are not met.
- STOT-repeated exposure			ased on available data, the classification criteria are not met.
- Aspiration hazard		В	ased on available data, the classification criteria are not met.

- Additional toxicological information: - CMR effects (carcinogenity, mutagenicity

Repr. 1B

and toxicity for reproduction)

- 11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

- 12.1 Toxici	- 12.1 Toxicity		
- Aquatic to	- Aquatic toxicity:		
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs			
EbC50	843 mg/l (Pseudokirchneriella subcapitata)		
LC50/96 h	1,800 mg/l (LEPOMUS MACROCHIRUS)		
	>5,000 mg/l (Oncorhynchus mykiss (Regenbogenforelle))		
NOEC	500 mg/l (Pseudokirchneriella subcapitata) (NOEC (72 hr))		
1675-54-3 I	pis[4-(2,3-epoxypropoxy)phenyl]propane		
NOEC 72h	4.2 mg/l (Selenastrum capricornutum)		
ErC50	>11 mg/l (Scenedesmus capricornutum) (72h)		
LC50/96 h	1.5 mg/l ((Salmo gairdneri) Regenbogenforelle)		
EC50	1.8 mg/l (Daphnia magna) (48 h)		
NOEC	0.3 mg/l (Daphnia magna)		
7727-43-7	7727-43-7 barium sulphate, natural		
EC50	32 mg/l (Daphnia magna) (Ba-lon; 48 h)		
	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane		
EC50	1.8 mg/l (ALGAE) (72h)		
EC50	2.55 mg/l (Daphnia magna) (48h)		
EC50	2.54 mg/l (Leuciscus idus (Goldorfe)) (96h)		

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(Contd. of page 6) 8007-24-7 decarboxylating cashew nut shell liquid EC50 >100 mg/l /48 h (Daphnia magna) (OECD 202 (48 hr)) EC50 >1,000 mg/l (Bacteria) (OECD 209)

No further relevant information available. - 12.2 Persistence and degradability - 12.3 Bioaccumulative potential No further relevant information available. No further relevant information available. - 12.4 Mobility in soil

- 12.5 Results of PBT and vPvB assessment

Not applicable. - PBT: - vPvB: Not applicable. The product does not contain substances with endocrine disrupting properties.

- 12.6 Endocrine disrupting properties - 12.7 Other adverse effects

- Remark:

- Additional ecological information:

- General notes:

Harmful to aquatic organisms

Harmful to fish

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.

## **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 UN3082

- 14.2 UN proper shipping name

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: - ADR bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)) - IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product:

bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700),

Bisphenol F epichlorohydrin resin MW <700), MARINE POLLUTANT - IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))

- 14.3 Transport hazard class(es)



- Class 9 (M6) Miscellaneous dangerous substances and articles.

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(Contd. of page 7) - Label 9 - IMDG, IATA - Class 9 Miscellaneous dangerous substances and articles. - Label - 14.4 Packing group - ADR, IMDG, IATA - 14.5 Environmental hazards: Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) - Marine pollutant: Symbol (fish and tree) Symbol (fish and tree) - Special marking (ADR): Symbol (fish and tree) - Special marking (IATA): - 14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles. - Hazard identification number (Kemler code): 90 - EMS Number: F-A,S-F - Stowage Category Α - 14.7 Maritime transport in bulk according to IMO instruments Not applicable. - Transport/Additional information: - ADR - Limited quantities (LQ) - Excepted quantities (EQ) Code: F1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml - Transport category 3 - Tunnel restriction code (-) - IMDG - Limited quantities (LQ) 5L - Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml - UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)), 9, III

#### **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.
- REGULATION (EC) No 1907/2006 ANNEX

(VII Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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- 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 H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H360F May damage fertility.

H411 Toxic to aquatic life with long lasting effects.

- Department issuing SDS: research & development - Contact: research & development

- Date of previous version: 01.03.2021

- Version number of previous version:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage - Abbreviations and acronyms:

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 ATE: Acute toxicity estimate values Acute Tox. 4: Acute toxicity – Category 4 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. 1A: Skin sensitisation – Category 1A
Repr. 1B: Reproductive toxicity – Category 1B
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.