Wisacryl®-AW

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

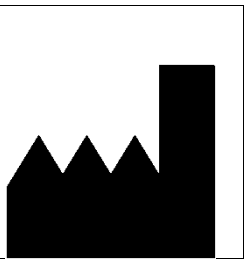
Trade Name	**Wisacryl-AW**
Item number	AW 11XX (XX = colour)
BAG-Register number (CH)	CPID: 118004-39

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

Relevant identified uses	Sealant
Uses advised against	All applications that are not explained in this technical data sheet.
Field for application [SU]	SU22 – Commercial use: Public domain (administration, education, entertainment, services, trade) SU21 – Consumer use: Private households (= community = consumer)

1.3 Details of the supplier of the safety data sheet

Supplier	**Wisabax AG** Kleb- und Dichtstoffe
Address	Grossmatte 21 / Postfach CH-6014 Luzern-Littau
Phone	+41 (0)41 250 18 18
Email	info@wisabax.ch
URL	www.wisabax.ch
Information contact	Technical Dept. - Mr B. Wicki Environment Dept. - Mrs E. Svets



1.4 Emergency telephone number

24h emergency number (just possible in switzerland)	**Tel. 145**	
Tox Info Suisse (ancient swiss toxicological infomations centre) **For emergencies from all the countries** 24h accessible in german, french, italian oder english. For not urgent cases see www.toxinfo.ch.	**Tel. +41 (0)44 251 51 51**	

2. Hazards identification

2.1 Classification of the substance or mixture according to (EC) Nr. 1272/2008 (CLP).

omitted

2.2 Labelling according to Regulation (EC) Nr. 1272/2008 (CLP)

Pictograms(e)	omitted
Signal word(s)	omitted
Hazard warning(s) [H-statements]	omitted
Special marking(s) [EUH-Phrases]	EUH208 Contains reaction mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. EUH210 Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.
The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

3. Composition/information on ingredients

3.1 Substances
This product is a mixture, for more see section 3.2.

3.2 Description of the mixture

Acrylate dispersions, fillers, and auxiliaries. Relevant hazardous substances:

Content: 0.1 % - < 1 %

CAS No.: 13463-67-7 EG No.: 236-675-5 Index No.: 022-006-002 Reg. No. (REACH): 01-2119489379-17-XXXX	**titanium dioxide** (homogeneously mixed in pasty or liquid, NOT inhalable form)	Substance with certain legal requirements. [Carc. 2, H351] (inhalative)

Content: 0.1 % - < 1 %

CAS No.: 107-21-1 EG No.: 203-473-3 Index No.: 603-027-00-1 Reg. No. (REACH): 01-2119456816-28-XXXX	**ethanediol** Further name(s): ethylene glycol	Acute Tox. 4, H302; STOT RE 2, H373

Content: 0.1 % - < 0.3 %

CAS No.: 1310-73-2 EG No.: 215-185-5 Index No.: - Reg. No. (REACH): 01-2119457892-27-XXXX	**sodium hydroxide** SCL Eye Irrit. 2: 0.5%<=C<2% SCL Eye Dam. 1: C>=2% SCL Skin Corr. 1A: C>=5% SCL Skin Corr. 1B: 2%<=C<5% SCL Skin Irrit. 2: 0.5%<=C<2%	Skin Corr. 1A, H314; Eye Dam. 1, H318; Met. Corr.1, H290

Content: 0.01 % - < 0.036 %

CAS No.: 2634-33-5 EG No.: 220-120-9 Index No.: 613-088-00-6 Reg. No. (REACH): 01-2120761540-60-XXXX	**1,2-benzisothiazol-3(2H)-one** biocide abbreviation: BIT M Factor Acute = 1; M Factor Chronic = 1 SCL Skin Sens. 1A, H317: C>=0.036%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Acute 1, H400; Acute Tox. 2, H330; Aquatic Chronic 1, H410

Content: < 0.0015 %

CAS No.: 55965-84-9 EG No.: 611-341-5 Index No.: 613-167-00-5 Reg. No. (REACH): 01-2120764691-48-XXXX	**reaction mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)** biocide abbreviation: C(M)IT/MIT M Factor Acute = 100 / M Factor Chronic = 100 SCL Eye Dam. 1: C>=0.6% SCL Eye Irrit. 2: 0.06%<=C<0.6% SCL Skin Corr. 1C: C>=0.6% SCL Skin Irrit. 2: 0.06%<=C<0.6% SCL Skin Sens. 1: C>=0.0015%	Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; EUH071

Note: H-phrases and abbreviations are detailed in section 16.

4. First aid measures

4.1 Description of first aid measures

General information	Observe the general rules of first aid measures. Refresh occasionally your knowledge. If medical advice is required, have this safety data sheet, the packaging or the label ready.
Following inhalation	Supply fresh air. Loosen restrictive clothing. Place in a resting position. Consult a doctor depending on the symptoms.
Following skin contact	Generally, the product does not irritate the skin. Remove contaminated clothing immediately. Wash skin with much water and soap. Consult a doctor depending ond the symptoms, if possible, show this container or label.
Following eye contact	Rinse open eyes for several minutes under running water. Depending on the symptoms (e.g. redness), consult an ophthalmologist. Remove contact lenses, if possible.
Following ingestion	Rinse mouth thoroughly with water. In case of persistent symptoms, consult doctor. Present this safety data sheet or product label. Drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting!

4.2 Most important symptoms and effects, both acute and delayed
See section 11.

4.3 Indication of any immediate medical attention and special treatment needed
Treat by symptoms.

5. Firefighting measures

5.1 Extinguishing media
Always adapt firefighting measures to the surroundings and the size of the fire.

Suitable extinguishing media: Water spray jet, Dry powder fire extinguishers, Alcohol-resistant foam, Carbon dioxide
Unsuitable extinguishing media: Full water jet

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire:
Carbon oxide. Toxic gases.

5.3 Advice for fire-fighters
Do not inhale combustion gases. Wear breathing apparatus with own air supply. Wear full protection depending on fire class.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Arrange for sufficient air supply.

6.2 Environmental precautions
Do not empty into drains. Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up
Mechanical remove and correct disposal of waste (cf. paragraph 13).

6.4 Reference to other sections
Personal protective equipment see section 8. Waste disposal see section 13.
Safe handling, see section 7.

7. Handling and storage

7.1 Precautions for safe handling
Avoid eye and skin contact. Eating, drinking, smoking, as well as food-storage, is prohibited in workspace. Notes note on the packaging and current technical data sheet.
Wash contaminated clothing before reuse. General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Take off contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities
To avoid the unauthorized and children and kept in a safe place.

7.3 Specific end uses
See section 1.2. - See technical data sheet and the product imprint.

8. Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

CAS No.: 13463-67-7 EG No.: 236-675-5 Index No.: 022-006-002 Reg. No. (REACH): 01-2119489379-17-XXXX	**titanium dioxide** (in powder form with min. 1% particles with aerodynamic diameter <= 10 µm) CH: MAC: 3 mg/m^3 (a) DE: TRHS / TWA: 1.25 mg/m^3 Exp. Factor 2, AGW: 10 mg/m^3, Exp. Factor 2 [25/Q5,1,S,1/4,2,5]

CAS No.: 107-21-1 EG No.: 203-473-3 Index No.: 603-027-00-1 Reg. No. (REACH): 01-2119456816-28-XXXX	**ethanediol** CH: MAC: 10 ppm (26 mg/m^3) CH: STEL: 20 ppm (52 mg/m^3) EU: TWA: 20 ppm (52 mg/m^3) EU: STEL: 40 ppm (104 mg/m^3) [24/Q5/4]

CAS No.: 1310-73-2 EG No.: 215-185-5 Index No.: - (REACH): 01-2119457892-27-XXXX	**sodium hydroxide** CH: MAC: 2 mg/m^3 CH: STEL: 2 mg/m^3

CAS No.: 55965-84-9 EG No.: 611-341-5 Index No.: 613-167-00-5 Reg. No. (REACH): 01-2120764691-48-XXXX	**reaction mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)** biocide abbreviation: C(M)IT/MIT CH: MAC: 0.2 mg/m^3 (e) CH: STEL: 0.4 mg/m^3 (e) [25/Q2/4]

MAK = Maximum Workplace Concentration (TLV = Threshold Limit Value)
CH It's a swiss limit, edited by SUVA. If there is no limit from SUVA it's a work place limit (AGW) from Germany or another European state.

CAS No.: 13463-67-7 EG No.: 236-675-5 Index No.: - Reg. No. (REACH): 01-2119489379-17-XXXX	**titanium dioxide** employee: DNEL: 10 mg/m^3 [inhalative, long-term, local effects]; consumer: DNEL: 700 mg/kg [oral, long-term, systemic effects]; environment: PNEC: 0.184 mg/l [fresh water]; environment: PNEC: 0.0184 mg/l [sea water]; environment: PNEC: 0.193 mg/l [fresh water, sporadic release]; environment: PNEC: 100 mg/l [microorganisms in wastewater treatment plants]; environment: PNEC: 1000 mg/kg dw [sediment, fresh water]; environment: PNEC: 100 mg/kg dw [sediment, seawater]; environment: PNEC: 100 mg/kg dw [soil]; environment: PNEC: 1667 mg/kg feed [oral, feed] [24/Q1/4]

CAS No.: 107-21-1 EG No.: 203-473-3 Index No.: 603-027-00-1 Reg. No. (REACH): 01-2119456816-28-XXXX	**ethanediol** employee: DNEL: 35 mg/m³ [inhalative, long-term, local effects]; employee: DNEL: 106 mg/kg/bw/d [dermal exposure route, long-term, systemic effects]; consumer: DNEL: 7 mg/m³ [inhalative, long-term, local effects]; consumer: DNEL: 53 mg/m³ [dermal exposure route, long-term, systemic effects]; environment: PNEC: 10 mg/l [fresh water]; environment: PNEC: 1 mg/l [sea water]; environment: PNEC: 10 mg/l [fresh water, sporadic release]; environment: PNEC: 199.5 mg/l [microorganisms in wastewater treatment plants]; environment: PNEC: 20.9 mg/kg [sediment, fresh water]; environment: PNEC: 1.53 mg/kg [soil] [24/Q1/24]

CAS No.: 2634-33-5 EG No.: 220-120-9 Index No.: 613-088-00-6 Reg. No. (REACH): 01-2120761540-60-XXXX	**1,2-benzisothiazol-3(2H)-one** employee: DNEL: 0.966 mg/kg [dermal exposure route, long-term, systemic effects]; employee: DNEL: 6.81 mg/m³ [inhalative, long-term, systemic effects]; consumer: DNEL: 0.18 mg/kg [oral, long-term, systemic effects]; consumer: DNEL: 0.345 mg/kg [dermal exposure route, long-term, systemic effects]; consumer: DNEL:1.2 mg/m³ [inhalative, long-term, systemic effects]; environment: PNEC: 4.03 mg/l [fresh water]; environment: PNEC: 0.403 mg/l [sea water]; environment: PNEC: 49.9 mg/kg [sediment, fresh water]; environment: PNEC: 4.99 mg/kg [sediment, seawater]; environment: PNEC: 3 mg/kg [soil]; environment: PNEC: 1.03 mg/l [microorganisms in wastewater treatment plants]; environment: PNEC: 0.007 mg/kg [freshwater (intermittent release)]; environment: PNEC: 1.18 mg/kg [STP]; environment: PNEC: 1.18 mg/kg [soil] [24/Q1/4]

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Ensure good ventilation, e.g. by local suction, general exhaust air.
Comply with the workplace exposure limits.
If limits can't be adhered to, use appropriate respiratory protection.

8.2.2 Personal protective equipment

General data	Select personal protective equipment according to the CEN standards; discuss protective equipment with the supplier.
Eye/face protection	Safety glasses with side protection shield (EN 166).
Hand-/Body protection	Avoid contact with your skin. If it's not avaible wear appropriate gloves.
Protective clothing	Wear suitable protective clothing.
Respiratory protection	Normally not needed.
Hygiene measures	Do not eat, drink or smoke while at work. Wash hands before breaks and after work.
Thermal hazards	Not applicable.

On the basis of the contents and our experience the following non-binding recommendations for the selection of the material of the protective gloves (minimum layer thickness: 0.4 mm):

Recommended glove material:	Nitrile rubber/Nitrile latex (NBR), Butyl rubber (Butyl), Polyvinyl chloride (PVC), Flourinated rubber (FKM)
Inappropriate glove material:	Textile Materials

The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the

resistance of the materials used for gloves cannot be predetermined; it is therefore necessary to check this before using the product.
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

8.2.3 Environmental exposure controls
More information that is detailed is not available yet.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Pasty
Colour	various colours
Density	~1.67 g/cm^3 (20 °C)
Viscosity	>21 mm^2/s
Odour	Characteristic
Odour threshold	Not determined
pH-level	7-9
Melting point/freezing point	0 °C
Initial boiling point/boiling range	100 °C
Decomposition temperature	Not determined
Rate of evaporation	Not determined
Flashpoint	>100 °C
Auto-ignition temperature	Not determined
Lower explosive limits	Not determined
Upper exploxive limits	Not determined
Vapour pressure	Not determined
Vapour density (Air = 1)	Not determined
Explosive properties	The product is not explosive.
Oxidising properties	No

9.2 Other information

Solubility in / Miscibility with water.	Partially miscible in water
Solubility in / Miscibility in	Not determined
Partition coefficient n-Octanol/Water	Not determined
Conductivity	Not determined
VOC-content (EU)	Ca. 0.5%
VOC-content (CH)	0%

10. Stability and reactivity

10.1 Reactivity
The product is not reactive under normal conditions.

10.2 Chemical stability
The product is stable when properly stored and handled.

10.3 Possibility of hazardous reactions
No effects are known if used as intended.

10.4 Conditions to avoid
Protect from frost.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products
No decomposition if used according to specifications.
In case of fire or extreme heat, see section 5.2.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)	> 2000 mg/kg
Acute toxicity (dermal)	> 2000 mg/kg
Acute toxicity (inhalativ), gas	> 20'000 ppm
Acute toxicity (inhalativ), dust, fog	> 5 mg/l
Acute toxicity (inhalativ), vapours	> 20 mg/l

The product does not require labelling to the analysis of the general classification regulation for preparation of the EU in the last edition.
According to our experience and information, the product does not cause any harmful effects on health if handled and used according to specifications.

11.2. Toxicological information of hazardous ingredients

CAS No.: 13463-67-7 EG No.: 236-675-5 Index No.: - Reg. No. (REACH): 01-2119489379-17-XXXX	**titanium dioxide** acute toxicity: LD50: >10000 mg/kg [oral, rat, OECD 425]; acute toxicity: LD50: >5000 mg/kg [dermal exposure route, rabbit]; acute toxicity: LC50: >5.09 mg/l/4h [inhalative, rat]; corrosive/irritant effect on the skin: non-irritant [dermal exposure route, rabbit, OECD 404]; serious eye damage/irritation: non-irritant, mechanical irritation possible [rabbit, OECD 405]; respiratory/skin sensitization: not sensitising [Guinea pig, OECD 406]; germ cell mutagenicity: negative [mouse, OECD 474 (Mammalian Erythrocyte Micronucleus Test)]; germ cell mutagenicity: negative [mammals, OECD 473 (In Vitro Mammalian Erythrocyte Chromosome Aberration Test)]; germ cell mutagenicity: negative [salmonella typhimurium, (Ames test)]; germ cell mutagenicity: negative [OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)]; germ cell mutagenicity: negative] [OECD 471 (Bacterial Reverse Mutation Test)]; carcinogenicity: EU: Carc. 2 (inhalation), H351, only applies in powder form with min. 1% particles with aerodynamic diameter <= 10 µm; not valid in case of homogeneously mixed in pasty or liquid, NOT inhalable form); persistence and degradability: poorly biodegradable; specific target organ toxicity - repeated exposure (STOT RE): NOAEL: 3500 mg/kg/90d [rat]; specific target organ toxicity - repeated exposure (STOT RE): NOAEC: 10 mg/m^3/90d [rat]; symptoms: mucous membrane irritation, cough, shortness of breath, drying of the skin [24/Q1,2/4]

CAS No.: 107-21-1 EG No.: 203-473-3 Index No.: 603-027-00-1 Reg. No. (REACH): 01-2119456816-28-XXXX	**ethanediol** acute toxicity: LD50: 500 mg/kg [oral, rat, IUCLID]; acute toxicity: LD50:10600 mg/kg = 9530 µL/kg [dermal exposure route, rabbit]; acute toxicity: LD50: >2.5 mg/l//6h [inhalative, rat]; serious eye damage/irritation: slightly irritant [rabbit]; symptoms: ataxia, breathing difficulties, unconsciousness, Krämpfe, fatigue [24/Q1,5/4]

CAS No.: 1310-73-2 EG No.: 215-185-5 Index No.: - Reg. No. (REACH): 01-2119457892-27-XXXX	**sodium hydroxide** acute toxicity: LD50: 325 mg/kg [oral, rat]; acute toxicity: LD50: 1350 mg/kg [dermal exposure route, rabbit] [24/Q1/0]

CAS No.: 2634-33-5 EG No.: 220-120-9 Index No.: 613-088-00-6	**1,2-benzisothiazol-3(2H)-one** acute toxicity: LD50: 1193 mg/kg [oral, rat]; acute toxicity: ATE: 450 mg/kg [oral]; acute toxicity: LD50: 4115 mg/kg [dermal exposure route, rat];

Reg. No. (REACH): 01-2120761540-60-XXXX	acute toxicity: LC50: 0.4 mg/l/4h [inhalative, rat, aerosol]; acute toxicity: ATE: 0.5 mg/l/4h [inhalative, vapours]; acute toxicity: ATE: 0.21 mg/l/4h [inhalative, OECD 403, dust, fog]; corrosive/irritant effect on the skin: irritant [Skin Irrit. 2]; serious eye damage/irritation: strong irritant [Eye Dam. 1]; respiratory/skin sensitization: Ja (skin contact) [Guinea pig, OECD 406]; respiratory/skin sensitization: Ja (skin contact) [mouse, OECD 429]; reproductive toxicity (developmental effects): NOAEL: 112 mg/kg, negative [rat, female]; reproductive toxicity (effects on fertility): NOAEL: 56.6 mg/kg bw/d, negative [rat, female]; specific target organ toxicity - repeated exposure (STOT RE): NOAEL: 150 mg/kg bw/d, negative [oral, rat, OECD 407]; symptoms: vomiting, headaches, gastrointestinal complaints, nausea, severe irritation or damage to the eyes, irritant effect on the skin [25/Q1,2,5/4]

CAS No.: 55965-84-9 EG No.: 611-341-5 Index No.: 613-167-00-5 Reg. No. (REACH): -	**reaction mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)** acute toxicity: LD50: 64 mg/kg [oral, rat]; acute toxicity: ATE: 53 mg/kg [oral]; acute toxicity: ATE: 50 mg/kg [dermal exposure route]; acute toxicity: LD50: 87 mg/kg [dermal exposure route, rat, OECD 402]; acute toxicity: LC50: 0.33 mg/l/4h [inhalative, rat, OECD 403, aerosol]; acute toxicity: ATE, 0.17 mg/l/4h [inhalative, aerosol]; acute toxicity: ATE, 0.5 mg/l/4h [inhalative, vapours]; corrosive/irritant effect on the skin: corrosiv [rabbit, OECD 404, Skin Corr. 1C]; serious eye damage/irritation: corrosiv [rabbit, OECD 404, Eye Dam. 1]; respiratory/skin sensitization: Ja (skin contact) [Guinea pig, Skin Sens. 1A, OECD 406]; germ cell mutagenicity: negative [mouse,OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)]; germ cell mutagenicity: negative [rat, OECD 486 Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells In Vivo)]; aspiration hazard: no; symptoms: diarrhoea, mucous membrane irritation, tearing of the eyes, redness of the eyes [24/Q1,2/4]

12. Ecological information

12.1 Toxicity

The product is not classified as dangerous for the environment.
Aquatic toxicity Germany (Self-classification): WGK 1 Slightly hazardous to water

12.2 Persistence and degradability
No information is available.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water	No information is available.

12.4 Mobility in soil
No information is available.

12.5 Results of PBT and vPvB assessment
See section 2.3.

12.6 Other adverse effects
Do not allow product to reach ground water, water course or sewag system.

12.7 Additional ecotoxicological information

CAS No.: 13463-67-7 EG No.: 236-675-5 Index No.: - Reg. No. (REACH): 01-2119489379-17-XXXX	**titanium dioxide** acute toxicity, fish: LC50: >100 mg/l/96h [Oncorhnchus mykiss, OECD 203]; acute toxicity, daphnia: LC50: >100 mg/l/48h [Daphnia magna, OECD 202]; acute toxicity, crustaceans: LC50: 19.3 mg/l/48h [Daphnia magna]; acute toxicity, algae: EC50: 16 mg/l/72h [Pseudokirchneriella subcapitata, U.S. EPA600/9-78-018]; acute toxicity, algae: NOEC: ≥2.92 mg/l/21d [chronic]; acute toxicity, algae: NOEC: 5600 mg/l/72h [chronic]; persistence and degradability: poorly biodegradable; bioaccumulative potential: BCF: 9.6/42d, is not to be expected; bioaccumulative potential: BCF: 19-352/14d [Oncorhynchus mykiss]; mobility in soil: negative; results of PBT and vPvB assessment: no PBT substance, no vPvB substance; acute bacteriotoxicity: >5000 mg/l [Escherichia coli]; acute bacteriotoxicity: LC0: >10000 mg/l/24h [Pseudomonas fluorescens]; acute bacteriotoxicity: >5000 mg/l [Pseudomonas flueroscens] annelid worm toxicity: NOEC/NOEL: >1000 mg/kg [Eisenia foetida]; water solubility: insoluble 20°C [24/Q1,2,106/4,3]

CAS No.: 107-21-1 EG No.: 203-473-3 Index No.: 603-027-00-1 Reg. No. (REACH): 01-2119456816-28-XXXX	**ethanediol** acute toxicity, algae: EC50: 6500-13000 mg/l/96h [Pseudokirchneriella subcapitala]; acute toxicity, fish: LC50: 16000 mg/l/96h [Poecilia reticulata static]; acute bacteriotoxicity: EC50: 10000 mg/l/16h, 620 mg/L/30 min [Pseudomonas putida, IUCLID] acute toxicity, daphnia: EC50: 41100 mg/l/48h [Daphnia magna]; acute toxicity, crustaceans: EC50: 46300 mg/l/48h [Daphnia magna]; persistence and degradability: 28d, 56% [OECD 301 C]; bioaccumulative potential: Log Pow: -1.36 [is not to be expected] [24/Q1,5/4]

CAS No.: 1310-73-2 EG No.: 215-185-5 Index No.: - Reg. No. (REACH): 01-2119457892-27-XXXX	**sodium hydroxide** acute toxicity, fish: LC50: =45.4 mg/l/96h [Oncorhynchus mykiss] [24/Q1/0]

CAS No.: 2634-33-5 EG No.: 220-120-9 Index No.: 613-088-00-6 Reg. No. (REACH): 01-2120761540-60-XXXX	**1,2-benzisothiazol-3(2H)-one** acute toxicity, fish: LC50: 1.3 - 1.6 mg/l/96h [Salmogairdneri]; acute toxicity, fish: LC50: 2.18 mg/l/96h [OECD 203, Oncorhynchus mykiss]; acute toxicity, fish: LC50: 3.4 mg/l/96h [Lepomis macrochirus]; acute toxicity, fish: LC50: 2.15 mg/l/96h [Cyprinodon variegatus EPA 540/9-85-006]; acute toxicity, daphnia: EC50: 2.94 mg/l/48h [Daphnia Magna, OECD 202]; acute toxicity, algae: EC50: 0.15 mg/l/72h [Chlorella vulgaris]; acute toxicity, algae: EC50: 0.13 mg/l/3h [activated sludge, OECD 209]; acute toxicity, algae: ErC50: 0.11 mg/l/72h [OECD 201, Pseudokirchneriella subcapitata]; acute toxicity, algae: ErC50: 0.055 mg/l/96h [Pseudokirchneriella subcapitata]; acute toxicity, algae: ErC10: 0.027 mg/l/24h [Pseudokirchneriella subcapitata]; persistence and degradability: poorly biodegradable; bioaccumulative potential: BCF: 6.95 [OECD 305]; bioaccumulative potential: partition coefficient: Log Pow: 0.7; acute bacteriotoxicity: EC50: 12.8 mg/l/3h [activated sludge, OECD 209]; acute bacteriotoxicity: EC20: 3.3 mg/l/3h [activated sludge, OECD 209] [25/Q1,2/4]

CAS No.: 55965-84-9 EG No.: 611-341-5 Index No.: 613-167-00-5 Reg. No. (REACH): 01-2120764691-48-XXXX	**reaction mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)** acute toxicity, fish: LC50: 0.22 mg/l/96h [Oncorhynchus mykiss, OECD 203]; acute toxicity, fish: NOEC/NOEL: 0.098 mg/l/28h [Oncorhynchus mykiss, OECD 210]; acute toxicity, fish: LC50: 0.28 mg/l/96h [Lepomis macrochirus];

	acute toxicity, daphnia: NOEC/NOEL: 0.004 mg/l/21d [Daphnia magna, Krebstiere, OECD 211]; acute toxicity, daphnia: EC50: 0.1 - 0.16 mg/l/48h [Daphnia magna]; acute toxicity, algae: EC50: 0.048 mg/l/72h [Pseudokirchneriella subcapitata, OECD 201]; acute toxicity, algae: NOEC/NOEL: 0.0012 mg/l/72h [Pseudokirchneriella subcapitata, OECD 201]; acute toxicity, algae: NOEC/NOEL: 0.49 mg/l/48h [Sceletonema costatum, OECD 201]; acute bacteriotoxicity: EC50: 5.7 mg/l/16h [Pseudomonas putida]; acute bacteriotoxicity: EC50: 7.92 mg/l/3h [OECD 209, activated sludge]; acute bacteriotoxicity: EC20: 0.97 mg/l/3h [OECD 209, activated sludge]; persistence and degradability: >60 %/28d, easily biodegradable [activated sludge, OECD 301D]; bioaccumulative potential: BCF: 3.6 [calculated value]; bioaccumulative potential: Log Pow: 0.48, is not to be expected [OECD 107] [25/Q1,5,2/4]

13. Disposal considerations

13.1 Waste treatment methods

Waste disposal according to official state regulations.

Waste treatment options: 08 04 09 – Waste adhesives and sealants containing organic solvents or other dangerous substances. 08 04 10 – waste adhesives and sealants other than those mentioned in 08 04 09
Contaminated packages: Disposal must be made according to official regulations. If possible empty packaging completely. Packagings that cannot be cleaned are to be disposed off in the same manner as the product. Uncontaminated and cleaned packaging can be recycled.
The waste code numbers mentioned are recommendations based on the probable use of the product. The particular application and local disposal situation obtaining for the user may lead to other waste codes being assigned as well.

14. Transport information

14.1 UN-Number:
ADR, RID, ADN, IMDG, IATA: Not applicable

14.2 UN proper shipping name
ADR, RID, ADN, IMDG, IATA: Not applicable

14.3 Transport hazard class(es):

ADR, RID, ADN, IMDG, IATA: Not applicable	

14.4 Packing group:
ADR, RID, ADN, IMDG, IATA: Not applicable

14.5 Enviromental hazards:
Dangerous to the environment: No
Marine pollutant: No

14.6 Special precautions for user:

Kemmler number:	Not applicable
EMS number:	Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Inapplicable

14.8 Additional information:

ADR: LQ – Limited Quantities:	Not applicable
ADR: Transport category:	Not applicable
ADR: Tunnel restriction code:	Not applicable
UN “Model Regulation”:	Inapplicable

15. Regulatory information

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

Classification and labelling see section 2.
Classification of the preparation has been done by calculation or based on studies/test on the product itself or experience with similar mixtures.

Further national and further regulations, limitations and legal requirements

Water hazard class (WGK) see section 12.1.
Chemicals regulation (ChemV), ordinance on chemicals risk reduction (ChemRRV), Luftreinhalte-Verordnung (LRV), Ordinance on protection against major accidents (StFV), professional association principles/industrial medicine regulations

15.2 Chemical Safety Assessment
A chemical safety assessment is not provided for mixtures.

16. Other information

Hazards used in the document (H-phrases):

H290 May be corrosive to metals.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H373 May cause damage to the central nervous system through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

Other recommended sources for more information:
- Federal Office of Public Health (Switzerland): www.bag.admin.ch (German/French/Italian/English)

List of relevant abbreviations that may be used in the document:

Abbreviation	Full text / Meaning
ADR	Accord européen realtif au transport international des marchandises Dangereuses par Route (= European agreement concerning the international carriage of dangerouse goods by road)
AGW, Spb.-Üf.	AGW = Arbeitsplatzgrenzwert (occupational limit value), Spb.-Üf. = Spitzenbegrenzung (peak limit) – Überschreitungsfaktor (exceedance factor) (1 bis 8) and category (I, II) for short-term values (TRGS 900, germany)
AOEL	Acceptable Operator Exposure Level
Aquatic Acute	Hazardous to the aquatic environment - Acute
Aquatic Chronic	Hazardous to the aquatic environment – Chronic
Asp. Tox.	Aspiration hazard (Danger when inhaling)
ATE	Acute Toxicity Estimates
BAG	Office for health (Bundesamt für Gesundheit, Schweiz)
BAT	Biological tolerance values at the workplace (Biologische Arbeitsstofftoleranzwerte, Schweiz)
BG	Trade association (Berufsgenossenschaft)
BGR	Trade association regulations (Berufsgenossenschaftliche Regeln)
BGV	Trade association regulations (Berufsgenossenschaftliche Vorschrift)
Carz.	Carcinogenic substance
CAS-Nr.	Chemical Abstracts Service

CH	Swiss confederation (from the latin Confoederatio Helvetica)
CH: MAK:	Swiss limit of maximum allowable concentration, issued by the swiss accident insurance fund. (Schweizerischen Unfallversicherungsanstalt (SUVA)
CLP	Classification, Labelling and Packaing (REGULATION (EG) Nr. 1272/2008)
CPID	Chemical Product IDentification.
DMEL	Derived Minimum Effect Level
DNEL	Derived No Effect Level
EG-Nr.	Substances of the EC material inventory, consisting of 7 digits (Syntax: XXX-XXX-X). Comprises waste materials (EINECS), new substances (ELINCS) as well as the No-Longer-Polymers-Liste (NLP-Liste).
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Irrit.	Eye irritant, depending on the category Eye irritation possible to serious eye damage.
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG-Code	International Maritime Code for Dangerous Goods
Index-Nr.	Indexation of dangerous substances of appendix 5 in the VO(EG)1272/2008 (or annex I of directive 67/548/EWG) with the following syntax: XXX-XXX-XX-X
LC	Lethal concentration
LD	Lethal (fatal) dose
LD50	Lethal dose, 50%
Met. Corr.	On metal corrosive acting substance or mixture
Muta.	Substance with germ cell mutagenicity
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
Ozone	Hazardous for the ozone layer
PBT	Persistent, bioaccumulative, and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Verordnung (EG) Nr. 1907/2006 zur Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe)
Repr.	Reproductive toxicity
Resp. Sens.	Sensitising for respiratory tract
SCL	Specific concentration limits
Skin Irrit.	Skin irritant – corrosive/irritant to skin
Skin Sens.	Sensitising for the skin
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure
TRGS	Technical rules on hazardous substances
VOC	Volatile organic compounds
VOCV	VOC-regulation (Swiss)
vPvB	Very persistent and very bioaccumulative

Department issuing data specification sheet: See section 1.3.
This safety data sheet replaces all previous versions.

Disclaimer: The specifications rest on the today's stand of our knowledge. It does not constitute a legally binding assurance of specific product properties.