Wikosil®-VA 5471 glasklar

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

1.1 Product identifier

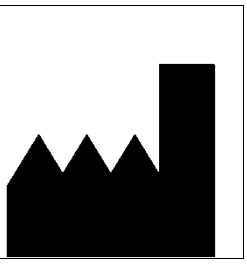
Trade Name	**Wikosil-VA 5471 glasklar**
Item number	VA 5471
BAG-Register number (CH)	CPID: 531821-91

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)

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).

Hazard class	Hazard category	Hazard warnings
omitted	omitted	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
Safety instruction(s) [P-statements]	omitted
Special marking(s) [EUH-Phrases]	EUH210 Safety data sheet available on request.

2.3 Other hazards

Persons suffering from allergic reactions to this product should avoid contact with de product.

Results of PBT and vPvB assessment according to Annex XIII of Regulation (EC) No 1907/2006.
PBT: Not applicable vPvB: Not applicable

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

Polydimethyl siloxane, filers, excipients and linker based on acetate.

Relevant hazardous substances:

Content: ≥ 3 % - < 5 %

CAS No.: 17689-77-9 EG No.: 241-677-4 Index No.: - Reg. No. (REACH): 01-2119881778-15-XXXX	**triacetoxyethylsilane**	Acute Tox. 4, H302; Skin Irrit. 1B, H314; Eye Irrit. 1, H318

Content: ≥ 2.5 % - < 25 %

CAS No.: 94094-93-6 EG No.: 302-196-6 Index No.: - Reg. No. (REACH): -	**benzene, mono-C10-13-alkyl derivatives, fractionation residues from soils**	Acute Tox. 4, H312; Aquatic Chrinic 3, H412

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	Remove affected person from the danger area. Supply fresh air. Loosen restrictive clothing. Place in a resting position. Consult a doctor depending on the symptoms. If not breathing provide immediately artificial respiration and obtain medical treatment. In case of unconsciousness bring person in recovery position and take medical advice.
Following skin contact	Product residues remove mechanically, e.g. 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. In case of eye injuries put on sterile protecting bandage. Remove contact lenses, if possible.
Following ingestion	Rinse mouth thoroughly with water. Keep airways free. Telephone the emergency number or consult a doctor. If it is possible, present this safety data sheet or product label. Do not induce vomiting! Drink plenty of water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed
No known sypmtoms.

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

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 (Carbon monoxide, ..), Nitrogen oxide (NOx).

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.
Use water spray to cool endangered containers.
Dispose contaminated fire extinguishing water according to official directives.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Arrange for sufficient air supply. Avoid eye and skin contact as well as inhalation. Keep away from sources of ignition. No smoking. Wear protective clothing (see Section 8).

6.2 Environmental precautions
Do not empty into drains. Prevent surface and ground-water infiltration, as well as ground penetration. When accidental discharge into channelization has happened, inform the corresponding officials.

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.

7. Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation. If necessary suction measures at the workplace or on the processing machines required. General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and after work. Attention of the general rules of the preventing operational fire protection.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed and in a well-ventilated place. Protect the product against moisture.

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:

Reaction product when crosslinking with humidity.

CAS No.: 64-19-7 EG No.: 200-580-7 Index No.: 607-002-00-6 Reg. No. (REACH): -	**acetic acid** CH: MAC: 10 ppm (25 mg/m^3) CH: STEL: 20 ppm (50 mg/m^3) [25/QS/5]

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.: 17689-77-9 EG No.: 241-677-4 Index No.: - Reg. No. (REACH): 01-2119881778-15-XXXX	**triacetoxyethylsilane** employee: 11 mg/kg/d [dermal exposure route, long-term, systemic effects]; employee: 80 mg/m^3 [inhalative, long-term, systemic effects]; consumer: 5.7 mg/kg/d [oral, long-term, systemic effects]; consumer: 5.7 mg/kg/d [dermal exposure route, long-term, systemic effects]; consumer: 19 mg/m^3 [inhalative, long-term, systemic effects]

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Ensure good ventilation, e.g. by local suction, general exhaust air.
Minimize the risk of inhalations of vapours.
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	During refilling or if possible contact with the eyes, goggles recommended.
Hand-/Body protection	Avoid contact with your skin. If it's not avaible wear appropriate gloves.
Protective clothing	Wear suitable protective clothing, e.g long-sleeved clothes and safety shoes according to EN ISO 20345.
Respiratory protection	Normally not needed. Comply with the workplace exposure limits. In case of insufficient ventilation or if limit values cannot be complied, use air respirator. Filters type AXBEK in accordance with EN 14387. Follow the wear time limits for breathing apparatus.
Hygiene measures	General hygiene measures for the handling of chemicals are applicable. 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 manufacturer's information on permeability and breakthrough times of the protective gloves must be observed and followed.

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	colourless, transparent
Density	~ 1.0 g/cm^3 25°C
Viscosity	Not determined
Odour	Pungent
Odour threshold	Not determined
pH-level	Not determined
Melting point/freezing point	Not determined
Initial boiling point/boiling range	Not determined
Decomposition temperature	Not determined
Rate of evaporation	Not determined
Flashpoint	> 150°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.	Immiscible with water
Solubility in / Miscibility in	Not determined
Partition coefficient n-Octanol/Water	Not determined
Conductivity	Insulating
VOC-content (EU)	0 %
VOC-content (CH)	0 %

10. Stability and reactivity

10.1 Reactivity
This product reacts with water (air humidity).

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
No effects are known if used as intended.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products
In case of fire or very high heat can i.a. the following hazardous decomposition products are formed:
Carbon oxide (Carbon monoxide, ..), Nitrogen oxide (NOx).

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)	LD50: > 10’000 mg/kg
Acute toxicity (dermal)	LD50: > 4’400 mg/kg

11.2. Toxicological information of hazardous ingredients

CAS No.: 17689-77-9 EG No.: 241-677-4 Index No.: - Reg. No. (REACH): 01-2119881778-15	**triacetoxyethylsilane** acute toxicity: LD50: 1460 mg/kg [oral, rat]; corrosive/irritant effect on the skin: cat. 1B, SCL; cat. 1B, 5%; cat. 2, 5%; serious eye damage/irritation: cat. 1, SCL; cat. 1, 5%; cat. 2, 5%.

CAS No.: 94094-93-6 EG No.: 302-196-6 Index No.: - Reg. No. (REACH): -	**benzene, mono-C10-13-alkyl derivatives, fractionation residues from soils** acute toxicity: LD50: ≥10000 mg/kg bw [oral, rat]; acute toxicity: LD50: ≥3160 mg/kg bw [dermal exposure route, rabbit];

Classification of the respective hazardous components see section 3.

12. Ecological information

12.1 Toxicity

Aquatic toxicity Germany (Self-classification)	WGK 2 Clearly hazardous to water
The product/mixture is not classified as hazardous to the aquatic environment – acute.	
The product/mixture is not classified as hazardous to the aquatic environment – chronic.	
The product is not classified as dangerous for the environment.	

12.2 Persistence and degradability
The product is not biodegradable.

12.3 Bioaccumulative potential
Any bioaccumulation potential.

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.: 94094-93-6 EG No.: 302-196-6 Index No.: - Reg. No. (REACH): -	**benzene, mono-C10-13-alkyl derivatives, fractionation residues from soils** acute toxicity, fish: LC50: 10000 mg/l [Sheepshead monnow]; acute toxicity, daphnia: EC50: >1000 mg/l; persistence and degradability: 58.8%/28 d, poorly biodegradable [OECD 301 F]; bioaccumulative potential: [Log Kow >12.3]

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.

Contaminated packages:
Disposal must be made according to official regulations. If possible empty packaging completely.
CH: After complete hardening, product can be disposed of with domestic waste.
Packagings that cannot be cleaned are to be disposed off in the same manner as the product.
Alternatively, it can be used if necessary following waste code: 15 01 10 – Packing that contains the residues of hazardous materials or is contaminated through hazardous materials.

- 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.
- Switzerland: Following regulation in the latest valid constitution must be observed: Technical regulation on waste (TVA, SR 814.600), regulation for waste processing (VeVa, SR 814.610) and in the regulation of UVEK concerning lists for handling waste (LVA, SR 814.610.1).

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:
Not applicable

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

14.8 Additional information:

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

VOC content according to swiss VOC regulation (VOCV) see section 9.2.
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):

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

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).

Wikosil®-VA 5471 glasklar

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.

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