

Wisacoll® AC 22.2K (2K-cyanoacrylate adhesive)

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

1.1 Product identifier

Trade Name	Wisacoll AC 22.2K Hardener (Component B)
Item number	AC 22.2K
Note: Two-component product	Please also refer to the safety data sheet of the other component Wisacoll AC 22 (Standard types), UFI: HM40-N0XX-D00K-S8FE
BAG-Register number (CH)	CPID: 1021572-00 UFI: XJD0-20JR-H00J-E942

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

Relevant identified uses	Adhesive
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 informations 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
Skin Sens.	1	H317 May cause an allergic skin reaction.
Aquatic Chronic	3	H412 Harmful to aquatic life with long lasting effects.

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

Pictograms(e)	
Signal word(s)	Attention
Hazard warning(s) [H-statements]	H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

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Safety instruction(s) [P-statements]	P102 Keep out of reach of children. P261 Avoid breathing mist / vapours / aerosols. P273 Avoid release to the environment. P280 Wear protective gloves / protective clothing / eye protection. P302 + P352 IF ON SKIN: Wash with plenty of water / ... P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents / container to the special waste disposal.
Special marking(s) [EUH-Phrases]	Not applicable
Contains	EO bis(benzotriazolyl)phenylpropionat
Allergy information(s) (EUH208)	Not applicable

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

Mixture of the substances listed below with harmless additions.

Content: 1 % - 10 %

CAS No.: 104810-47-1 EG No.: 600-602-9 Index No.: - Reg. No. (REACH): -	EO bis(benzotriazolyl)phenylpropionat Further name(s): α-[3-[3-(2H-Benzotriazol-2-yl)-5-(1,1-dimetiletil)-4-hidroksifenil]-1-oxopropil]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimetiletil)-4-hidroksifenil]-1-oxopropoxi]poly(oxi-1,2-ethanedil) [26/Q30/5]	Skin Sens. 1, H317 ; Aquatic Chronic 2, H411
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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	Remove contaminated clothing immediately. Wash skin with much water and soap. Consult a doctor depending on the symptoms, if possible, show this container or label. Never attempt to force skin that have been stuck together. After lip contact keep the mouth open, don't put your lips together.

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Following eye contact	Provide an eye-wash bottle or eye-wash station in the work area. Rinse thoroughly with water and consult a doctor. Present this safety data sheet or product label. Never attempt to force open eyes that have been stuck together.
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.

4.2 Most important symptoms and effects, both acute and delayed
can cause allergic skin reactions.

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

Combustible. Formation of explosive mixtures possible with air. Formation of toxic gases is possible during heating or in case of fire: Carbon monoxide, Carbon dioxide

5.3 Advice for fire-fighters

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

Keep away from sources of ignition. No smoking. Arrange for sufficient air supply. Avoid eye and skin contact as well as inhalation. Keep away unnecessary people from the scene of an accident; ideally contrary to the wind direction. Wear protective clothing (see Section 8).

6.2 Environmental precautions

Avoid further leakage or release, if it's possible without risk. 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

Absorb bigger quantities with fluid-binding material (e.g. universal binder, sand, diatomaceous earth, sawdust) and dispose of according to section 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

Keep away from sources of ignition – No smoking Do not breathe mist / vapour / aerosol. Avoid contact with eyes, skin and clothing. Ensure good ventilation. Open and handle receptacle with care. Eating, drinking, smoking, as well as food-storage, is prohibited in workspace. Notes note on the packaging and current technical data sheet. Use working methods according to operating instructions.

Avoid release into the environment. Put on appropriate protective equipment (see section 8). Wash contaminated clothing before reuse. General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and after work. Take off contaminated clothing and protective equipment before entering eating areas.

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7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a well-ventilated place.

To avoid the unauthorized and children and kept in a safe place. Do not store warnings in corridors and stairwells. Store only in original container and keep locked up. Store this material from incompatible materials. Do not store together with alkalis. Do not store together with acids. Do not store together with oxidants. Keep away from food, drink and animal feedingstuffs. Protect them from direct sunlight and heat. Keep cool Store in a dry place. Protect the product against moisture. Recommended storage temperature: +5°C.

7.3 Specific end uses

Adhesive - See technical data sheet and the product imprint.

8. Exposure controls/personal protection

8.1 Control parameters

No monitoring threshold values are known.

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.

If possible, work with completely self-contained equipment.

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	Tight-fitting protective goggles in accordance with DIN EN ISO 16321-1:2022.
Hand-/Body protection	Use chemical-resistant protective gloves in accordance with EN 374-1. The manufacturer's information on permeability and breakthrough times of the protective gloves must be observed and followed. Permeation time (maximum wearing duration): > 480 min.
Protective clothing	Wear suitable protective clothing, e.g long-sleeved clothes and safety shoes according to EN ISO 20345.
Respiratory protection	Normally not needed. In case of insufficient ventilation or if limit values cannot be complied, use air respirator. Filters type AXBEK in accordance with EN 14387. Respiratory protection in case of aerosol or mist formation. The respiratory filter class must be matched to the maximum concentration of hazardous substances (gas / vapour / aerosol / particles) that may occur during handling of the product.
Hygiene measures	Do not eat, drink or smoke while at work. Wash hands before breaks and after work.
Thermal hazards	The reaction is exothermic and can, especially in large quantities, causing heat.



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)
Inappropriate glove material:	Textile Materials, Polyvinyl chloride (PVC)

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.

Wisacoll® AC 22.2K (2K-cyanoacrylate adhesive)**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical state	Liquid
Colour	colourless, transparent
Density	1.16 g/ml
Viscosity	non-viscous
Odour	Weak
Odour threshold	Not determined
pH-level	Not determined
Melting point/freezing point	Not determined
Initial boiling point/boiling range	> 35 °C
Decomposition temperature	Not determined
Rate of evaporation	Not determined
Flashpoint	~208 °C
Auto-ignition temperature	Not determined
Lower explosive limits	Not determined
Upper explosive limits	Not determined
Vapour pressure	Not determined
Vapour density (Air = 1)	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined

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)	< 3 %
VOC-content (CH)	< 3 %

10. Stability and reactivity**10.1 Reactivity**

This product reacts violently with water with evolution of heat.

10.2 Chemical stability

The product is stable when properly stored and handled.

10.3 Possibility of hazardous reactions

Contact with the following materials leads to violent reactions: water, moisture – polymerisation with heat release.

10.4 Conditions to avoid

Heating, open flame, ignition sources. Protect from humidity. Protect container from direct sun.

10.5 Incompatible materials

Oxidizer, Strong acids, Bases, Alcohols, Amines, Water.

10.6 Hazardous decomposition products

No decomposition if used according to specifications.

In case of fire or very high heat the following hazardous decomposition products can occur: Carbon dioxide, nitrogen oxide (NO_x), carbon monoxide. In case of fire/Heat may arise cyanide.

11. Toxicological information**11.1 Information on toxicological effects**

Acute toxicity (oral)	Based on the available data, the classification criteria are not met.
Acute toxicity (dermal)	Based on the available data, the classification criteria are not met.
Acute toxicity (inhalativ)	Based on the available data, the classification criteria are not met.

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Symptoms	By inhalation: chest tightness, cough By swallowing: stomach ache, nausea, erythema (redness) By skin contact: Irritation and redness may occur. In the case of prolonged and / or frequent exposure, irritation of the skin and mucous membranes cannot be ruled out.
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11.2. Toxicological information of hazardous ingredients

CAS No.: 104810-47-1 EG No.: 600-602-9 Index No.: - Reg. No. (REACH): -	EO bis(benztriazolyl)phenylpropionat acute toxicity: LC50: >5.8 mg/l [inhalative, rat]; acute toxicity: LD50: >2000 mg/kg bw [dermal exposure route, rat, male/female] [26/Q913/6]
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12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

The product is biodegradable.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water	-
An appreciable bioaccumulation is not to be expected (log P(o/w) 1-3).	

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 sewage system.

12.7 Additional ecotoxicological information

CAS No.: 104810-47-1 EG No.: 600-602-9 Index No.: - Reg. No. (REACH): -	EO bis(benztriazolyl)phenylpropionat acute toxicity, fish: LC50: 2.8 mg/l/96h [Oncorhynchus mykiss]; acute toxicity, microorganisms: IC50: >1000 mg/l/3h [26/Q913/6]
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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. 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. After complete hardening, product can be disposed of with domestic waste.
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.

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14. Transport information

14.1 UN-Number:

ADR, RID, IMDG, IATA-DGR: Not applicable
ADN: ID 9006

14.2 UN proper shipping name

ADR, RID, IMDG, IATA-DGR: Not restricted
ADN: ID 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es):

ADR, RID, IMDG, IATA-DGR: Not applicable
ADN: class: 9, code: M12

14.4 Packing group:

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

14.5 Environmental hazards:

Dangerous to the environment: No
Marine pollutant: No

14.6 Special precautions for user:
Inland waterway transport (ADN)

Hazard label:	-
Transport permitted:	T
Equipment required:	PP

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

14.8 Additional information:

Not applicable

15. Regulatory information

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

Classification and labelling see section 2.
The classification is based on the calculation method, unless otherwise stated.

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.
Observe employment restrictions for young people (CH: SR 822.115).
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):

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
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 relatif au transport international des marchandises Dangereuses par Route (= European agreement concerning the international carriage of dangerous goods by road)

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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.

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