


**2K EPOXY METAL STICK (PART B)**

Creation date	06th December 2021	Version	2.0
Revision date			

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

- 1.1. Product identifier**  
Substance / mixture 2K EPOXY METAL STICK (PART B)  
Number mixture  
1 35191 (PART B)  
UFI 5P3S-JV2A-Q30H-RV4J
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Hardener.  
**Main intended use**  
PC-ADH-8 Multi-component adhesives and sealants  
**Mixture uses advised against**  
For professional use only.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
Name or trade name RETECH, s.r.o.  
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00  
Czech Republic  
Identification number (CRN) 25018205  
VAT Reg No CZ25018205  
Phone +420327596428  
E-mail info@retech.cz  
Web address www.retech.com
- Competent person responsible for the safety data sheet**  
Name RETECH, s.r.o.  
E-mail info@retech.cz
- 1.4. Emergency telephone number**  
European emergency number: 112

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is classified as dangerous.
- Skin Corr. 1C, H314  
Skin Sens. 1, H317  
Eye Dam. 1, H318
- Full text of all classifications and hazard statements is given in the section 16.
- Most serious adverse effects on human health and the environment**  
Causes serious eye damage. Causes severe skin burns and eye damage. May cause an allergic skin reaction.
- 2.2. Label elements**  
**Hazard pictogram**
- 
- Signal word**  
Danger
- Hazardous substances**  
2,4,6-tris(dimethylaminomethyl) phenol  
bis[(dimethylamino)methyl]phenol

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**Hazard statements**

 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.

**Precautionary statements**

 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear eye protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a doctor.  
 P405 Store locked up.

**2.3. Other hazards**

Floor with the spilled product might be slippery. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Chemical characterization**

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 90-72-2 EC: 202-013-9	2,4,6-tris(dimethylaminomethyl) phenol	1-10	Acute Tox. 4, H302 Skin Corr. 1C, H314 Skin Sens. 1B, H317 Eye Dam. 1, H318	
CAS: 71074-89-0 EC: 275-162-0	bis[(dimethylamino)methyl]phenol	<1,5	Skin Corr. 1B, H314	

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. Take off contaminated clothing. And wash it before reuse.

**If inhaled**

Remove person to fresh air and keep comfortable for breathing. Keep the affected person warm and at rest. Provide medical treatment.

**If on skin**

Immediately wash with water and soap and rinse thoroughly. Provide medical treatment.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

**If swallowed**

Rinse out the mouth with water and provide 2-5 dL of water. Do not provide anything by mouth if the person is unconscious or if having cramps. DO NOT INDUCE VOMITING! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

not available

**If on skin**

Causes severe skin burns. May cause an allergic skin reaction.

**If in eyes**

Causes serious eye damage. Burning, redness, lacrimation.

**If swallowed**

not available

**4.3. Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam, carbon dioxide, powder, water mist.

**Unsuitable extinguishing media**

Water - full jet.

**5.2. Special hazards arising from the substance or mixture**In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Sulfur dioxide, nitrogen oxides (NO<sub>x</sub>), ammonia.**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide sufficient ventilation. Prevent contact with skin and eyes. Do not inhale vapours. Do not inhale aerosols. Use personal protective equipment for work. Remove contaminated clothes. And wash it before reuse. Keep unprotected persons away.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water. In the event of substantial pollution, contact respective authorities.

**6.3. Methods and material for containment and cleaning up**

Large spill: Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13. Small spill: Small amounts may be flushed with water. Floor with the spilled product might be slippery.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Do not eat, drink or smoke when using this product. Do not inhale vapours. Do not inhale aerosols. Do not get in eyes, on skin, or on clothing. Wash hands and exposed parts of the body thoroughly after handling. Remove contaminated clothes. And wash it before reuse. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Keep away from heat, open flames. Take action to prevent static discharges.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not store together with food, drink and animal feed.

Storage temperature

min 10 °C, max 20 °C

**7.3. Specific end use(s)**

not available

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

The mixture contains no substances for which occupational exposure limits are set.

**DNEL**

bis[(dimethylamino)methyl]phenol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	0.2 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	0.31 mg/m <sup>3</sup>	Systemic chronic effects	

**PNEC**

bis[(dimethylamino)methyl]phenol

Route of exposure	Value	Determining method
Freshwater environment	0.084 mg/l	
Seawater	0.008 mg/l	
Microorganisms in wastewater treatment plants	0.2 mg/l	

**Other information of limit values**

7664-41-7 Amonia, anhydrous:  
EU OEL 8 h 14 mg/m<sup>3</sup>; 20 ppm  
EU OEL 15 minutes 36 mg/m<sup>3</sup>; 50 ppm

**8.2. Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. Do not inhale vapours. Do not inhale aerosols. Do not get in eyes, on skin, or on clothing. Remove contaminated clothes. And wash it before reuse. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**

Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

**Skin protection**

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. Material of gloves: Nitrile rubber, NBR. PVC. Recommended thickness of the material: > 0.5 mm. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Other protection: protective workwear.

**Respiratory protection**

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Filter A2/P3. EN143 - Respiratory protective devices - Gas filter(s) and combined filter(s). Use insulating breathing apparatus in case of an accident, fire or high concentration.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state	liquid
Colour	white
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available

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Decomposition temperature	data not available
pH	8,5 (undiluted)
Kinematic viscosity	data not available
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Form	cream / paste

**9.2. Other information**

Evaporation rate	data not available
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

See the Section 10.3.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

When used in the standard way, there is not any dangerous reaction with other substances.

**10.4. Conditions to avoid**

Protect against flames, sparks, overheating. Protect against direct sunlight.

**10.5. Incompatible materials**

not available

**10.6. Hazardous decomposition products**

Not developed under normal uses.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

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Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	>20000 mg/kg		Rat	

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage. Causes severe skin burns and eye damage.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**Reproductive toxicity**

Based on available data the classification criteria are not met.

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**Toxicity for specific target organ - single exposure**  
Based on available data the classification criteria are not met.

**Toxicity for specific target organ - repeated exposure**  
Based on available data the classification criteria are not met.

**Aspiration hazard**  
Based on available data the classification criteria are not met.

**11.2. Information on other hazards**  
not available

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**  
Data for the mixture are not available.

2,4,6-tris(dimethylaminomethyl) phenol

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	175 mg/l	96 hour	Fishes (Cyprinus carpio)	
EL 50	84 mg/l	72 hour	Algae (Desmodesmus subspicatus)	

**12.2. Persistence and degradability**  
not available

**12.3. Bioaccumulative potential**  
Not available.

**12.4. Mobility in soil**  
Not available.

**12.5. Results of PBT and vPvB assessment**  
Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Endocrine disrupting properties**  
not available

**12.7. Other adverse effects**  
Prevent contamination of the soil and entering surface or ground water.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**  
Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**  
Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**  
08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances \*

**Packaging waste type code**  
15 01 10 packaging containing residues of or contaminated by hazardous substances \*  
(\* ) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

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**SECTION 14: Transport information****14.1. UN number or ID number**

UN 2735

**14.2. UN proper shipping name**

AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris(dimethylaminomethyl) phenol; bis[(dimethylamino)methyl]phenol)

**14.3. Transport hazard class(es)**

8 Corrosive substances

**14.4. Packing group**

III - substances presenting low danger

**14.5. Environmental hazards**

not relevant

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**Additional information**

Hazard identification No.

**80**

UN number

**2735**

Classification code

C7

Safety signs

8

**Road transport - ADR**

Special provisions 274

Limited quantities 5 L

Excepted quantities E1

**Packaging**

Packing instructions P001, IBC03, LP01, R001

Mixed packing provisions MP19

**Portable tanks and bulk containers**

Guidelines T7

Special provisions TP1, TP28

**ADR tank**

Tank code L4BN

Tunnel restriction code (E)

**Railway transport - RID**

Special provisions 274

Excepted quantities E1

**Packaging**

Packing instructions P001, IBC03, LP01, R001

Mixed packing provisions MP19

**Portable tanks and bulk containers**

Guidelines T7

Special provisions TP1, TP28

**RID Tanks**

Tank code L4BN

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**Air transport - ICAO/IATA**

Packaging instructions for limited amount	Y841
Packaging instructions passenger	852
Cargo packaging instructions	856

**Marine transport - IMDG**

EmS (emergency plan)	F-A, S-B
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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

**15.2. Chemical safety assessment**

not available

**SECTION 16: Other information****A list of standard risk phrases used in the safety data sheet**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

**Guidelines for safe handling used in the safety data sheet**

P280	Wear eye protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P405	Store locked up.

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EL <sub>50</sub>	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization



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IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**The changes (which information has been added, deleted or modified)**

The version 2.0 replaces the SDS version from 10 July 2018. Changes were made in sections 2, 3, 8, 9, 11, 12, 13, 14, 15 and 16.

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.