

**2K EPOXY METAL STICK**

Creation date	02nd 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  
mixture  
Number 1 35191 (PART A)  
UFI FM3S-1VCX-E301-3HJG
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Resins.  
**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 Irrit. 2, H315  
Skin Sens. 1, H317  
Eye Irrit. 2, H319  
Aquatic Chronic 2, H411
- 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 skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
- 2.2. Label elements**  
**Hazard pictogram**
- 
- Signal word**  
Warning
- Hazardous substances**  
epoxy resin (number average molecular weight ≤ 700)
- Hazard statements**  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

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H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	
P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.

### Supplemental information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

### 2.3. Other hazards

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: 25068-38-6 EC: 500-033-5 Registration number: 01-2119456619-26	epoxy resin (number average molecular weight $\leq$ 700)	80-99	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	

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

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. In the event of issues, find medical advice.

#### If on skin

Wash with plenty of soap and water. Provide medical treatment if skin irritation persists.

#### 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 continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### If swallowed

DO NOT INDUCE VOMITING! 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. Provide medical treatment.

### 4.2. Most important symptoms and effects, both acute and delayed

#### If inhaled

not available

#### If on skin

May cause an allergic skin reaction. Causes skin irritation.

#### If in eyes

Causes serious eye irritation.

#### If swallowed

not available

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

Symptomatic treatment.

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

Carbon dioxide, sand, powder. Water mist. Fight larger fires with water spray or alcohol resistant foam.

**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.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. 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. Do not inhale vapours. Prevent contact with skin and eyes. Use personal protective equipment for work. Keep unprotected persons away. Take off contaminated clothing. And wash it before reuse.

**6.2. Environmental precautions**

Do not allow to enter drains. 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**

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13. Preferably clean with detergents, if possible without the use of solvents.

**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 inhale vapours. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as per Section 8. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Take off contaminated clothing. And wash it before reuse. Ensure eye bath is to hand. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

**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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect against frost. Do not store together with food, drink and animal feed. Do not store together with oxidising agent.

Storage temperature min 10 °C, max 20 °C

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

not available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

**DNEL**

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epoxy resin (number average molecular weight ≤ 700)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	8.3 mg/kg bw/day	Systemic acute effects	
Workers	Inhalation	12.3 mg/m <sup>3</sup>	Systemic acute effects	
Workers	Dermal	8.3 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	12.3 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	3.6 mg/kg bw/day	Systemic acute effects	
Consumers	Inhalation	0.75 mg/m <sup>3</sup>	Systemic acute effects	
Consumers	Oral	0.75 mg/kg bw/day	Systemic acute effects	
Consumers	Dermal	3.6 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	0.75 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Oral	0.75 mg/kg bw/day	Systemic chronic effects	

**PNEC**

epoxy resin (number average molecular weight ≤ 700)

Route of exposure	Value	Determining method
Freshwater environment	3 µg/l	
Seawater	0.3 µg/l	
Microorganisms in wastewater treatment plants	10 mg/l	
Freshwater sediment	0.5 mg/kg of dry substance of sediment	
Sea sediments	0.5 mg/kg of dry substance of sediment	
Soil (agricultural)	0.05 mg/kg of dry substance	

**8.2. Exposure controls**

Ensure good ventilation/exhaustion at the workplace. 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. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Do not eat, drink and smoke during work. Ensure eye bath is to hand.

**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. Recommended thickness of the material: 0.11 mm. Penetration time of glove material: > 480 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Other protection: protective workwear and footwear.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Filter NPF 70. EN143 - Respiratory protective devices - Gas filter(s) and combined filter(s).

**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

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Colour	white
Odour	mild
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
Decomposition temperature	data not available
pH	7 (undiluted)
Kinematic viscosity	data not available
Viscosity	tixotropní
Solubility in water	soluble
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
Content of organic solvents (VOC)	0 g/l

**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 from sunlight. Do not expose to temperatures exceeding 95 °C.

**10.5. Incompatible materials**

Protect against strong acids and oxidizing agents. R-NH<sub>2</sub>, R-SH, NaOH.

**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>	>2000 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit	

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

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**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.

**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**

Toxic to aquatic life with long lasting effects.

epoxy resin (number average molecular weight  $\leq 700$ )

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	1.3 mg/l	96 hour	Fishes	
EC <sub>50</sub>	2.1 mg/l	48 hour	Daphnia	
LC <sub>50</sub>	>11 mg/l	72 hour	Algae	

**Chronic toxicity**

epoxy resin (number average molecular weight  $\leq 700$ )

Parameter	Value	Time of exposure	Species	Environment
NOEC	0.3 mg/l	21 day		

**12.2. Persistence and degradability**

The substance is not biodegradable.

**12.3. Bioaccumulative potential**

Bioaccumulation potential.

**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

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**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. 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

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

UN 3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (number average molecular weight  $\leq$  700))

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

9 Miscellaneous dangerous substances and articles

**14.4. Packing group**

III - substances presenting low danger

**14.5. Environmental hazards**

Yes

**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.

90

UN number

3082

Classification code

M6

Safety signs

9+ hazardous for the environment



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**Road transport - ADR**

Special provisions	274, 335, 601
Limited quantities	5 L
Excepted quantities	E1

**Packaging**

Packing instructions	P001, IBC03, LP01, R001
Special packing provisions	PP1
Mixed packing provisions	MP19

**Portable tanks and bulk containers**

Guidelines	T4
Special provisions	TP1, TP29

**ADR tank**

Tank code	LGBV
Tunnel restriction code	(-)

**Railway transport - RID**

Special provisions	274, 335, 601
Limited quantities	5I
Excepted quantities	E1

**Packaging**

Special packing provisions	PP1
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**Portable tanks and bulk containers**

Guidelines	T4
Special provisions	TP1, TP29

**Air transport - ICAO/IATA**

Packaging instructions for limited amount	Y964
Packaging instructions passenger	964
Cargo packaging instructions	964

**Marine transport - IMDG**

Hazard initiator	epoxy resin (number average molecular weight $\leq$ 700)
EmS (emergency plan)	F-A, S-F
Marine Pollutant	Yes

**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**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

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

P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.



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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P391 Collect spillage.

**A list of additional standard phrases used in the safety data sheet**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

**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  
EC<sub>50</sub> Concentration of a substance when it is affected 50% of the population  
EINECS European Inventory of Existing Commercial Chemical Substances  
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  
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 Kow Octanol-water partition coefficient  
MARPOL International Convention for the Prevention of Pollution from Ships  
NOEC No observed effect concentration  
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

Aquatic Chronic Hazardous to the aquatic environment (chronic)  
Eye Irrit. Eye irritation  
Skin Irrit. Skin irritation  
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.

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**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, 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.