

METALLISED EPOXY (part A)

Creation date	10th November 2022	Version	3.0
Revision date			

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

- 1.1. Product identifier** METALLISED EPOXY (part A)
Substance / mixture mixture
Number 1 35132
UFI HKS7-8XJ6-071S-RNDU
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Glue. Resins (prepolymers).
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.

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

Precautionary statements

P261	Avoid breathing vapours/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.
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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

Supplemental information

EUH205	Contains epoxy constituents. May produce an allergic reaction.
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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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Floor with the spilled product might be slippery.

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)	<30	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

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. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

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 clean water. Do not provide anything by mouth if the person is unconscious or if having cramps. In the event of issues, find medical advice.

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

not available

If on skin

May cause an allergic skin reaction. Possible irritation. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.

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.

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

Carbon dioxide, sand, powder. Foam. 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.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Do not breathe smoke. 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. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.

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

Do not inhale aerosols. Prevent contact with skin and eyes. Stop leak if safe to do so. Provide sufficient ventilation. Use personal protective equipment for work. Remove contaminated clothes immediately. 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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per 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. Prevent formation of aerosols. Do not inhale aerosols. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Remove contaminated clothes immediately. And wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Ensure eye bath is to hand. 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. Keep only in original container. Protect from sunlight. Keep away from heat, open flames. Do not store together with food, drink and animal feed. Do not store together with oxidising agent. Do not store together with Sodium hydroxide, amines, mercaptans or Lewis-acid.

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

epoxy resin (number average molecular weight ≤ 700)

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	8.3 mg/kg bw/day	Systemic acute effects		
Workers	Inhalation	12.3 mg/m ³	Systemic acute effects		
Workers	Dermal	8.3 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	12.3 mg/m ³	Systemic chronic effects		
Consumers	Dermal	3.6 mg/kg bw/day	Systemic acute effects		
Consumers	Inhalation	0.75 mg/m ³	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 ³	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	Value determination	Source
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. Remove contaminated clothes. And wash it before reuse. Prevent contact with skin and eyes. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Do not inhale vapours. Do not inhale aerosols. Do not eat, drink and smoke during work. 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. Recommended thickness of the material: ≥ 0.4 mm. Penetration time of glove material: > 480 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear.

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Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter A. 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
Colour	grey
Odour	without fragrance
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	data not available
Kinematic viscosity	data not available
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	
Density	2,9 – 3,1 g/cm ³ at 20 °C
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

Protect against strong oxidizing agents. Polymerizes with: sodium hydroxide, amines, mercaptans, Lewis acids.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Sodium hydroxide, amines, mercaptans, Lewis acids.

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.

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Acute toxicity

Based on available data the classification criteria are not met.

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Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	ATE	>2000 mg/kg		Rat		Calculation of value
Dermal	ATE	1000-≤2000 mg/kg		Rabbit		Calculation of value

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

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

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Toxic to aquatic life with long lasting effects.

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Parameter	Value	Exposure time	Species	Environment
LC ₅₀	1.3 mg/l	96 hour	Fishes	
EC ₅₀	2.1 mg/l	48 hour	Daphnia	
LC ₅₀	>11 mg/l	72 hour	Algae	

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

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Prevent contamination of the soil and entering surface or ground water.

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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. 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.

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

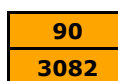
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



M6

9+dangerous 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	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=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/spray.
P264	Wash hands and exposed parts of the body thoroughly after handling.

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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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

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

EUH205	Contains epoxy constituents. May produce an allergic reaction.
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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 ₅₀	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 ₅₀	Lethal concentration 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
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 3.0 replaces the SDS version from 24 November 2020. Changes were made in sections 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.