

Date of issue: 02/01/2017	Trade name:	Page: 1/7
Reviewed on:	EPOXY METAL PASTE - BASE	Version: 1.0

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

- 1.1. Product identifier:
Trade name: **EPOXY METAL PASTE - BASE**
Product code: **R 34575/76**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Liquid metal – designed for repairs of metal products.
For professional and industrial use only.
Uses advised against: Not known.
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky
Telephone number/Fax: +420 327 596 128, +420 327 596 428
E-mail: info@retech.cz
- 1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic
Telephone number: +420 327 596 128 (7.30-16.00 hour)
Toxicologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Eye Irrit. 2 H319 Causes serious eye irritation.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Warning

Hazard Statements:

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.

Precautionary Statements:

P102 Keep out of reach of children.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

Contained dangerous substances:

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin);
9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol;

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 02/01/2017	Trade name:	Page: 2/7
Reviewed on:	EPOXY METAL PASTE - BASE	Version: 1.0

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

2.3. Other hazards:

Results of PBT and vPvB assessment:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description of the mixture: Mixture of active ingredients

Hazardous ingredients:

CAS: 25068-38-6 EINECS: 500-033-5	Reaction product: bisphenol-A-(epichlorhydrin); Epoxy resin (number average molecular weight ≤ 700)* Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Aquatic Chronic 2, H411	30 - 40 %
CAS: 9003-36-5 EINECS: 500-006-8	Formaldehyde, oligomeric reaction products with 1- chloro-2,3-epoxypropane and phenol Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	3 - 10 %
CAS: 68609-97-2 EINECS: 271-846-8	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Skin Irrit. 2, H315; Skin Sens. 1, H317	3 - 10 %

*Specific concentration limit: Skin Irrit. 2, H315: C ≥ 5 %; Eye Irrit. 2, H319: C ≥ 5 %

For full text of H-statements: see SECTION 16.

4. Section 4. First aid measures:

4.1. Description of first aid measures:

General notes: When in doubt or if symptoms are observed, get medical advice.
 After inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.
 If conscious, ensure the casualty sits or lies down.
 After skin contact: Wash immediately with plenty of soap and water.
 Remove all contaminated clothes and footwear immediately unless stuck to skin.
 Consult a doctor.
 After eye contact: Rinse opened eye for several minutes under running water.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Consult a doctor.
 After swallowing: Do not induce vomiting.
 Consult a doctor.

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

See section 11.

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

Show this safety data sheet to the doctor in attendance.

5. Section 5. Fire fighting measures:

5.1. Extinguishing media:

Suitable extinguishing agents: Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide, dry chemical powder.

Unsuitable extinguishing agents:

No further relevant information available.

5.2. Special hazards arising from the substance or mixture:

In combustion emits toxic fumes of carbon dioxide/carbon monoxide.

5.3. Advice for firefighters:

Wear protective clothing and self-contained breathing apparatus.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 02/01/2017	Trade name:	Page: 3/7
Reviewed on:	EPOXY METAL PASTE - BASE	Version: 1.0

6.	Section 6. Accidental release measures:	
6.1.	Personal precautions, protective equipment and emergency procedures:	Wear protective equipment, see Section 8. Ensure adequate ventilation.
6.2.	Environmental precautions:	Do not discharge into drains or rivers. Inform respective authorities in case of seepage into water course or sewage system.
6.3.	Methods and material for containment and cleaning up:	Ensure adequate ventilation. Transfer to a suitable container. Dispose contaminated material as waste according to Section 13.
6.4.	Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
7.	Section 7. Handling and storage:	
7.1.	Precautions for safe handling:	
	Protective measures:	Wear protective equipment, see Section 8. Ensure good ventilation/exhaustion at the workplace.
	Measures to prevent fire:	No further relevant information available.
7.2.	Conditions for safe storage, including any incompatibilities:	
	Requirements for storage rooms and vessels:	Store in cool, well ventilated area. Must only be kept in original packaging.
	Technical measures and storage conditions:	Store in a cool, well-ventilated place.
	Further information on storage conditions:	No further relevant information available.
7.3.	Specific end use(s):	Building and construction work (SU19).
8.	Section 8. Exposure controls/personal protection:	
8.1.	Control parameters:	
	Components with limit values that require monitoring at the workplace:	
	WEL (United Kingdom): EH40/2005	
	Contains no substances with occupational exposure limit values.	
	OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG	
	Contains no substances with occupational exposure limit values.	
	Additional information: The lists that were valid during the compilation were as basis.	
8.2.	Exposure controls:	
	Technical measures to prevent exposure:	Ensure good ventilation/exhaustion at the workplace.
	General protective measures:	Wash hands before breaks and at the end of work.
	Personal protection equipment:	
	Respiratory protection:	Respiratory protection usually not required with adequate ventilation. Self contained breathing apparatus must be available in case of emergency.
	Eye protection:	Safety glasses.
	Hand protection:	Protective gloves.
	Skin protection:	Protective clothing.
9.	Section 9. Physical and chemical properties:	
9.1.	Information on basic physical and chemical properties:	
	Form:	Paste.
	Colour:	Dark grey.
	Odour:	Characteristic.
	Odour threshold:	Not determined.
	Value pH at 20 °C:	Not determined.

Date of issue: 02/01/2017	Trade name:	Page: 4/7
Reviewed on:	EPOXY METAL PASTE - BASE	Version: 1.0

Melting point/freezing point: Not determined.
 Initial boiling point/boiling range: > 200 °C
 Flash point: > 100 °C
 Evaporation rate: Negligible.
 Flammability (solid, gas): Not determined.
 Explosive properties: Not determined.
 Explosive limits:
 – lower: Not determined.
 – upper: Not determined.
 Vapour pressure at 20°C: Not determined.
 Vapour density at 20 °C: Not determined.
 Density at 20°C: Not determined.
 Relative density: 1.5
 Solubility in/miscibility: Water: Insoluble.
 Also soluble in: Most organic solvents.
 Partition coefficient (n-octanol/water): Not determined.
 Ignition temperature: Not determined.
 Decomposition temperature: Not determined.
 Self-ignition temperature: Not determined.
 Viscosity: Highly viscous.
 Oxidising properties: Not determined.
 9.2. Other information: No further relevant information available.

10. Section 10. Stability and reactivity:

10.1. Reactivity: Stable under recommended transport or storage conditions.
 10.2. Chemical stability: Stable under normal conditions.
 10.3. Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
 10.4. Conditions to avoid: Direct sunlight, heat.
 10.5. Incompatible materials: Acids, bases, oxidising agents.
 10.6. Hazardous decomposition products: In combustion emits toxic fumes of carbon dioxide/carbon monoxide.

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not met.

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin)

Oral	LD50	Mouse	15600 mg/kg
	LD50	Rat	11400 mg/kg
Dermal	LD50	Rabbit	> 20 mg/kg

9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Oral	LD50	Rat	17100 mg/kg
------	------	-----	-------------

Relevant effects for mixture:

Hazard	Route	Basis
Irritation	Ophthalmic, Dermal	Hazardous: calculated
Sensitisation	Dermal	Hazardous: calculated

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: 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.

STOT-single exposure: Based on available data, the classification criteria are not met.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 02/01/2017	Trade name:	Page: 5/7
Reviewed on:	EPOXY METAL PASTE - BASE	Version: 1.0

STOT-repeated exposure: Based on available data, the classification criteria are not met.
 Aspiration hazard: Based on available data, the classification criteria are not met.
 Other information:
 After inhalation: There may be a feeling of tightness in the chest with shortness of breath.
 After skin contact: There may be irritation and redness at the site of contact.
 After eye contact: There may be irritation and redness.
 After swallowing: There may be soreness and redness of the mouth and throat.


12. Section 12. Ecological information:

12.1. Toxicity:
 Aquatic toxicity: Harmful to aquatic life with long lasting effects.
 12.2. Persistence and degradability: Only slightly biodegradable.
 12.3. Bioaccumulative potential: No further relevant information available.
 12.4. Mobility in soil: Heavier than water.
 12.5. Results of PBT and vPvB assessment:
 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
 12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

13.1. Waste treatment methods:
 Product disposal: Must not be disposed together with household garbage.
 Do not allow product to reach sewage system.
 European Waste Catalogue:
 08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances
 (*hazardous waste)
 Packagings disposal: Disposal must be made according to official regulations.
 European Waste Catalogue:
 15 01 10* packaging containing residues of or contaminated by hazardous substances
 (*hazardous waste)
 Other disposal recommendations:
 Disposal must be made according to official regulations.
 The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:

14.1. UN number:
 ADR, IMDG, IATA UN 3077
 14.2. UN proper shipping name:
 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (bisphenol a-(epichlorhydrin) {reaction product}; formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)
 14.3. Transport hazard class(es):

 Class 9 Miscellaneous
 Hazard label 9
 14.4. Packing group: III
 14.5. Environmental hazards:
 Environmentally hazardous: Yes.
 Marine pollutant: No.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 02/01/2017	Trade name:	Page: 6/7
Reviewed on:	EPOXY METAL PASTE - BASE	Version: 1.0

- 14.6. Special precautions for user: No special precautions.
 Danger Code (Kemler): 90
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:
 Not applicable
- Transport category: 3
 Tunnel restriction code: E
 UN "Model Regulation": UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bisphenol a-(epichlorhydrin) {reaction product}; formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III

15. Section 15. Regulatory information:

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
 Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values

Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values

Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

- 15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

Relevant H-statements (Section 3):

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.

Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

LD50: Median dose lethal to 50 % of a test population

N.O.S.: Not Otherwise Specified entry

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative, Toxic

vPvB: Very Persistent, Very Bioaccumulative

WEL: Workplace exposure limits

Aquatic Chronic 2: Hazardous to the aquatic environment, category 2

Eye Irrit. 2: Serious eye irritation, category 2

Skin Irrit. 2: Skin irritation, category 2

Skin. Sens. 1: Skin sensitization, category 1

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 02/01/2017	Trade name:	Page: 7/7
Reviewed on:	EPOXY METAL PASTE - BASE	Version: 1.0

product features and shall not establish a legally valid contractual relationship.

***Compared to the last version the data has been changed.**