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Reviewed on:		EPOXY METAL PASTE-BASE - new	Version: 1.0

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

- 1.1. Product identifier : **EPOXY METAL PASTE-BASE - new R 34575/76**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against: Liquid metal – designed for repairs of metal products.
- 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/Fax: +420 327 596 128, +420 327 596 428
Information: info@retech.cz
- 1.4. Emergency telephone number:
RETECH Suchdol 212, Suchdol u Kutné Hory
Tel.+420 327 596 128 (7.30-16.00 hour)
Toxicology information number, Na bojišti 1, 128 08 PRAHA 2
Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

The product is labeled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.
The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008:
Classification not available.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

Xi-Irritant R 36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.

N-Dangerous for the environment R51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.

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

Labelling according to Directive 1999/45/EC:



Irritant



Dangerous for the Environment

R 36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.

Special labeling of certain preparations:

Contains: Bisphenol A-(epichlorhydrin) (reaction product); Formaldehyde, oligomeric reaction product with 1-chloro-2,3 epoxypropane and phenol; Oxirane, mono [(alkyloxy)methyl] derivates.
May produce an allergic reaction.

- 2.3. Other hazards:
Results of PBT and vPvB assessment:
PBT: This substance is not identified as a PBT substance.

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vPvB: Not applicable

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description: The active ingredient.

Dangerous components:

CAS: 25068-38-6 EINECS: 500-033-5	Bisphenol A-(epichlorhydrin) (reaction product) Xi R36/38, R43; N R51/53	3-40%
CAS: 9003-36-5 EINECS: 500-006-8	Formaldehyde, oligomeric reaction product with 1-chloro-2,3 epoxypropane and phenol Xi R38, R43; N R51/53	3-10%
CAS: 68609-97-2 EINECS: 271-846-8	Oxirane, mono [(alkyloxy)methyl] derivates Xi R38, R43	3-10%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. Section 4. First aid measures:

4.1. Description of first aid measures:

After inhalation: Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get medical attention if any discomfort continues.

After skin contact: Instantly remove any clothing soiled by the product, immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing: Do not induce vomiting, rinse mouth with water and drink plenty of water. Seek for medical advice immediately. Do not give water if the person is unconscious.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye Contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath.

4.3. Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Section 5. Fire fighting measures:

5.1. Extinguishing media:

Suitable extinguishing agents: Carbon dioxide (CO₂), fire-extinguishing powder, water haze or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2. Special hazards arising from the substance or mixture:

In case of fire may produce toxic fumes and vapors of carbon dioxide / carbon monoxide.

5.3. Advice for firefighters: Wear protective equipment/clothing when fighting fires.

6. Section 6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid skin and eye contact. Wear protective equipment see Section 8.2. Ensure adequate ventilation. Keep unprotected person away.

6.2. Environmental precautions:

Do not allow product to reach sewage system, surface or ground water.

Inform respective authorities in case product reaches water or sewage system.

6.3. Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Collect mechanically and dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections:

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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. Information for safe handling: Avoid skin and eye contact. Ensure adequate ventilation and/or use extraction. Wash hands after contact.
- Information about protection against explosions and fires: Information not available.
- 7.2. Conditions for safe handling, including any incompatibilities:
Storage:
Requirements to be met by storerooms and containers: Store in original container at cool, dry, well-ventilated place (temperature +5°C to +25°C).
Information about storage in one common storage facility: Do not store together with strong acids and strong oxidizing agents.
Further information about storage conditions: Information not available.
- 7.3. Specific end use(s): No further relevant information available.

8. Section 8: Exposure controls and personal protection:

- 8.1 Control parameters:
Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- 8.2 Exposure controls:
Eye protection: Tightly sealed goggles.
Breathing equipment: None required when good ventilation is ensured.
Protection of hands: Protective hand gloves
Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- 8.3. Protection of skin: Protective working clothing.
General protective and hygienic measures: Keep away from foodstuffs, beverages and food.
Immediately remove all soiled and contaminated clothing.
Wash hands during breaks and at the end of the work.

9. Section 9. Physical and chemical properties:

- 9.1. Information on basic physical and chemical properties:
Appearance:
form: Paste
colour: Dark gray
Odour threshold: Characteristic
Value pH: Not determined
Melting point/freezing point: Not determined
Initial boiling point/boiling range: >200°C
Flash point: >100°C
Evaporation rate: Negligible
Flammability (solid,gas): Not applicable
Ignition temperature: Not determined
Explosive properties: Product is not explosive.
Upper/lower flammability or explosive limits:
Explosion limits: lower (% Vol.): -
upper (% Vol.): -
Vapour pressure (at 20°C): Not determined
Vapour density (at 20 °C): Not determined

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Relative density:	1.5 g/cm ³
Solubility in/miscibility with - water	Insoluble
Also soluble in:	Most organic solvents
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Highly viscous
Oxidative properties:	Not determined
9.2. Other information:	Not applicable.

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:	Oxidising agents. Acids.
10.6. Hazardous products of decomposition:	In case of fire may produce toxic fumes and vapors of carbon dioxide / carbon monoxide.

11. Section 11. Toxicological information:	
11.1 Information on toxicological effects:	
Acute toxicity:	Not.
Irritation: on the skin:	Irritant to skin
on the eye:	Irritating effect.
Corrosivity:	Not corrosive.
Sensitization:	May cause sensitization by skin contact.
Repeated dose toxicity:	No further relevant information available.
Carcinogenicity:	No further relevant information available.
Mutagenicity:	No further relevant information available.
Toxicity for reproduction:	No further relevant information available.
Other information:	Skin contact: There may be irritation and redness at the site of contact. Blisters may occur. Eye Contact: May cause corneal burns and permanent damage. Ingestion: There may be burns around the lips and cause vomiting. Symptoms may appear after several hours. Inhalation: May occur shortness of breath and sore throat. Symptoms may appear after several hours.

12. Section 12. Ecological information:	
Water hazard class 1 (Self-assessment):	slightly hazardous for water.
	Do not allow the product or large quantities of it to reach ground water, water bodies or sewage system.
12.1. Toxicity:	No further relevant information available.
12.2. Persistence and degradability:	Only slightly biodegradable.
12.3. Bioaccumulative potential:	No further relevant information available.
12.4. Mobility in soil:	Insoluble in water.
12.5. Results of PBT and vPvB assessment:	
	PBT: This substance is not identified as a PBT substance.
	vPvB: Not applicable
12.6. Other adverse effects:	Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

13. Section 13. Disposal considerations:	
13.1 Waste treatment methods:	
Product:	Must not be disposed together with household garbage.

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Uncleaned packagings:

Burn waste in the incinerator of hazardous waste or deliver it to the collection point for hazardous waste.
 European waste catalogue:
 08 04 09

Burn waste in the incinerator of hazardous waste or deliver it to the collection point for hazardous waste.
 Disposal must be made according to official regulations.
 European waste catalogue:
 15 01 10

14. Section 14. Transport information:

- 14.1. Land transport:
- ADR/RID-GGVS/E class: 9
 Packaging group: III
 Number UN: 3077
 Special marking: Symbol (fish and tree)
 Description of goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BISPHENOL A-F EPOXY RESIN)
- Transport category: 3
 Tunnel restriction code: E
- 14.2. Maritime transport:
- IMDG-class: 9
 Number UN: 3077
 Packaging group: III
 Label: 9
 EMS-group: Information not available.
 Marine pollutant: No
 Proper shipping name: SOLIDS, N.O.S.
- 14.3. Air transport:
- ICAO / IATA -class: 8
 UN/ID number: 3259
 Label: 8
 Packaging group: III
 Proper shipping name: SOLIDS, N.O.S.
 UN "Model Regulation": UN 3077 SOLIDS, N.O.S.
 Special precautions for users - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BISPHENOL A-F EPOXY RESIN)
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

15. Section 15. Regulatory information:

- 15.1. Labelling according to law line:
 The product has been labeled in accordance with EC Directives / relevant national laws.
 Danger of determining components and mark to labelling:
 Contains: Bisphenol A-(epichlorhydrin) (reaction product); Formaldehyde, oligomeric reaction product with 1-chloro-2,3 epoxypropane and phenol; Oxirane, mono [(alkyloxy)methyl] derivates.
 May produce an allergic reaction.

Labelling hazardousness:



Irritant



Dangerous for the Environment

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Numbers and word reading associated hazard R-sentences :

R 36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.

Numbers and word reading associated security S-sentences:

S 2 Keep out of the reach children.

S 24/25 Avoid contact with skin and eyes.

S 37 Wear suitable gloves.

S 46 If swallowed, seek medical advice immediately and show this container or label.

S 56 Dispose of this material and its container at hazardous or special waste collection point.

Used legislation:

European Regulation (EC) No 1907/2006 – REACH.

Commission Regulation (EU) No 453/2010.

European Regulation No 67/548EEC and 1999/45/EC.

Commission Regulation (EC) No 1272/2006 – CLP.

Commission Regulation (EC) No 790/2009.

Regulation (EC) No 648/2004 (detergents).

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

16. Section 16. Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relative Rphrases:

R 38 Irritating to skin.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

WEL- Workplace exposure limits

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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