



**SAFETY DATA SHEET**  
according to 830/2015/EC, 28.05.2015



Revision: 2011-05-06  
Update: 2017-01-13

**UNIVERSAL EPOXY PUTTY**

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P273 – Avoid release to the environment  
P501 – Dispose of contents/container to a mine waste dump.

**2.3. Other hazards**

PBT - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.  
vPvB - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.

**3. Composition/information on ingredients**

**3.1. Substance: -**

**3.2. Mixtures**

Description	CAS	EC	REACH No	Content %	Classification
epoxy resin (average molecular weight <700)	25068-38-6	500-033-5	01- 2119456619- 26-0013	<60	Eye Irrit.2, H319 Skin Irrit.2, H315 Skin Sens.1, H317 Aquatic Chronic 2 H411
epoxy resin Bisfenolu z F-epichlorohydryną	9003-36-5	500-006-8	01- 2119454392- 40-XXXX	>40	Eye Irrit.2, H319 Skin Irrit.2, H315 Skin Sens.1, H317 Aquatic Chronic 2 H411

**4. First aid measures**

**4.1 Description of first aid measures**

After eye contact	In case of contact, flush eyes immediately with plenty of water and seek medical attention.
After skin contact	Remove completely the glue with a dry cloth or a paper towel before washing with detergent and water. In case of skin irritation, seeks medical attention.
After inhalation	Fresh air and rest if symptoms persist seek medical attention.
After swallowing	Seek medical attention.

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

Not available

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

The decision of the method of further procedure should be made by a doctor after exact assessment of victim's conditions.

**5. Firefighting measures**

**5.1. Extinguishing media**

All available media: powder, foam, water fog, CO<sub>2</sub>; (use highly sprayed water).  
Unsuitable extinguishing media: High volume water jet.

**5.2. Special hazards arising from the substance or mixture**

CO<sub>2</sub>, CO, nitrogen oxides and soot.

**5.3. Advice for firefighters**

Wear protective equipment. Wear self-contained breathing apparatus.

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**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

See point 8.

**6.2. Environmental precautions:**

Avoid the product will come into soil, ground water and sewage system.

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

In case of spilling wipe, scrape or soak up in inert material (sand) and take up mechanically in suitable containers. Disposal in accordance with state and local regulations.

**6.4. Reference to other sections**

Information concerning safe handling – section / chapter 7.

Information concerning personal protective equipment - section / chapter 8.

Information concerning utilisation - section / chapter 13.

**7. Handling and storage**

**7.1. Precautions for safe handling:**

Ensure good ventilation and a dry work place. Avoid spilling. Keep away from food. Protect from frost.

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

Store in dry and tightly closed containers. Store between 5°C and 25°C in well ventilated rooms. Protect from moisture.

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

Not available.

**8. Exposure controls/personal protection**

The personal protection media should meet the requirements of Directive of 89/686/EC (together with later changes) The employer is obliged to ensure measures of personal protection suitable to activities that are made and fulfilling all quality requirements as well as their cleaning and maintenance.

**8.1. Control parameters**

Ingredients with limit values that require monitoring in the work place.

Exposure control	NDS [mg/m <sup>3</sup> ]	NDSCH [mg/m <sup>3</sup> ]
-	-	-

**8.2. Exposure controls**

Observe the general rules of hygiene and safety. Ensure good ventilation in a work place. During work do not eat, drink and smoke tobacco. Wash hands before breaks and at the end of work. Avoid contacts with eyes.

**Breathing equipment:**

Work in well ventilated rooms.

**Protection of hands and body:**

Wear overalls.

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**Eye protection:**

Wear safety glasses.

**Environment exposure control**

Do not allow the product to reach sewage system, ground water, water reservoirs and soil.

**9. Physical and chemical properties**

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

Physical state	Plastic mass
Density	1,8 – 1,9 g/cm <sup>3</sup>
Boiling point	> 200°C
Flash point	>200°C
Self-ignition temperature	>500°C
Odour	Very weak
Solubility in water	insoluble
Solubility in ketones and esters	soluble
Dynamic viscosity at 25°C	-
Colour of component A	White/cream

**9.2. Other information**

Lack of additional tests.

**10. Stability and reactivity**

**10.1. Reactivity**

Not available.

**10.2. Chemical stability**

No dangerous products of decomposition, when stored and handled correctly.

**10.3. Possibility of hazardous reactions**

Reactions with strong acids and strong oxidizing agents.

**10.4. Conditions to avoid**

No decomposition if stored and used according to recommendations.

**10.5. Incompatible materials**

Not available.

**10.6. Hazardous decomposition products**

Do not occur if the material is stored properly. In case of unsuitable storage CO, CO<sub>2</sub>, NO<sub>x</sub> may be emitted.

**11. Toxicological information**

**Contamination**

Skin contact	Repeated exposure may cause drying and cracking skin. Contamination of skin with the mixture may induce local redness's, pain, itching, and degreasing which may bring skin to inflammable states.
Eyes contact	Irritating. Eye contamination induces redness, watering, redness of conjunctives.
Ingestion system	Harmful, may cause an injury to lungs, vomiting and nausea in case of swallowing.

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Sensitization	May cause sensitization as a result of exposure by inhalation system and contacts with skin.
Acute toxicity-Component A:	
LD <sub>50</sub> oral >20000 mg/kg (rat)	
LD <sub>50</sub> dermal >4000 mg/kg (rat)	
May cause sensitization in particularly sensitive persons in contacts with skin..	

**12. Ecological information**

**12.1. Toxicity**

Lack of additional tests.

**12.2. Persistence and degradability**

Lack of additional tests.

**12.3. Bioaccumulative potential**

Has potential to bioaccumulation.

**12.4. Mobility in soil**

May be easily absorbed in soil

**12.5. Results of PBT and vPvB assessment**

PBT Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

vPvB Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

**12.6. Other adverse effects**

Not available.

For used resin

LC50 for fish: 2,4 mg/l

EC50 for daphnia: 3,6 mg/l

**13. Disposal considerations**

**13.1. Waste treatment methods**

Both components are distributed in one package in very small amounts. One package contains no more than 100g each of them. Such small quantities are used up completely in accordance with their designation. Waste material is destroyed in accordance with state and local regulations.

Waste code:

**08 04 09** Waste adhesives and sealants containing organic solvents or other dangerous substations.

**15 01 10** Packaging containing residues of dangerous substations or contaminated with them.

**EU Legal Instruments**

Directives of European Parliament and Council 2006.12-ECI Council

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**14. Transport information**

**14.1. UN-Number: 3077**

Land transport ADR/RID and GGVSEB (international/state) 9. LQ=5 kg

Sea transport IMDG/VSee: 9

Air transport ICAO – TI I IATA – DGR: 9

**14.2. Proper shipping name**

Solid material threatening the environment, i.n.o.

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

9

**14.4. Packing group**

III.

**14.5. Hazards to environment**

Toxic to aquatic life with long lasting effects.

**14.6. Special precautions for user**

While handling the cargo use personal protection measures according to point 8.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not available.

**15. Regulatory information**

**15.1. Legislation related to safety, health and environment protection specific for substance or mixture:**

The regulation of European Parliament and Council (EC) no. 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH), for establishing the European Chemical Agency, changing the directive 1999/45/EC and cancelling the regulation of EEC) no.793/93 and the regulation of Committee(EC) no.1488/94, as well as the directive of council 76/769/EEC and the directives of Committee 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC,

The regulation of European Parliament and Council (EC) no.1272/2008 of 16 December 2008 concerning the classification, labeling and packing the substances and mixtures, changing and cancelling the directives 67/548/EEC and 1999/45/EC and changing the regulation ( EC ) no.1907/2006

The regulation of Committee ( EC ) no.790/2009 of 10 August 2009 adopting to the scientific and technological progress the regulation of European Parliament and Council (EC) no 1272/2008 of 16 December 2008 concerning the classification, labeling and packing the substances and mixtures

The regulation 453/2010/EU Council of 10.05.2010 changing the regulation no. 1907/2006/EU of European Parliament and Council concerning the registration, estimation, granting permissions and suitable limits in the range of chemicals ( REACH )

The directive of European Parliament and Council no.2006/12/EC of 5 April 2006 concerning waste.

The directive of Council no. 91/689/EEC of 12 December 1991 concerning dangerous waste.

The directive of European Parliament and Council no 94/62/EU. of 20 December 1994 concerning packaging and packaging waste.

**15.2. Estimation of chemical safety:**

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H319 – Causes serious eye irritation  
 H341 – Suspected of causing genetic defects

P102 – Keep out of reach of children  
 P280- Wear protective gloves/protective clothing/eye protection/face protection  
 P302+P352 – IF ON SKIN: Wash with soap and 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 to a mine waste dump.

**2.3. Other hazards**

PBT - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.  
 vPvB - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.

**3. Composition/information on ingredients**

**3.1. Substance: -**

**3.2. Mixtures**

Description	CAS	EC	REACH No	Content %	Classification
Triethylenetetramine	112-24-3	203-950-6	01-2119487919-13-XXXX	<2	Acute Tox.4, H312, Skin Corr.1B, H314, Skin Sens.1, H317, Aquatic Chronic 3, H412
2,4,6-tris(dimethylaminomehtyl)-phenol	90-72-2	202-013-9	01-2119560597-27	<1	Acute Tox.4, H302 Eye Irrit.2, H319, Skin Irrit. 2 H315
Phenol	108-95-2	203-632-7	01-2119471329-32-0000	1	Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 STOT RE. 2, H373 Skin Corr. 1B, H314, (For: c≥1% : Eye Irrit. 2, H319, Skin Irrit. 2, H315 Muta. 2, H341)

**4. First aid measures**

**4.1. Description of first aid measures**

After eye contact	In case of contact, flush eyes immediately with plenty of water and seek medical attention.
After skin contact	Remove completely the glue with a dry cloth or a paper towel before washing with detergent and water. In case of skin irritation, seeks medical attention.
After inhalation	Fresh air and rest if symptoms persist, seek medical attention.
After swallowing	Drink two glasses of water. Do not provoke vomiting. Seek medical attention.

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

Not available.

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

The decision of the method of further procedure should be made by a doctor after exact assessment of victim's conditions.

**5. Firefighting measures**

**5.1. Extinguishing media**

All available media: powder, foam, water fog, CO<sub>2</sub>; (use highly sprayed water).

Unsuitable extinguishing media: High volume water jet.

**5.2. Special hazards arising from the substance or mixture**

CO<sub>2</sub>, CO, nitrogen oxides and soot.

**5.3. Advice for firefighters**

Wear protective equipment. Wear self – contained breathing apparatus.

**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

See point 8.

**6.2. Environmental precautions:**

Avoid the product will come into soil, ground water and sewage system.

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

In case of spilling, wipe scrape or soak up in inert material (sand) and take up mechanically in suitable containers. Disposal in accordance with state and local regulations.

**6.4. Reference to other sections**

Information concerning safe handling – section / chapter 7.

Information concerning personal protective equipment - section / chapter 8.

Information concerning utilisation - section / chapter 13.

**7. Handling and storage**

**7.1. Precautions for safe handling:**

Ensure good ventilation and keep in a dry work place. Avoid spilling. Keep away from food. Protect from frost.

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

Store in dry and closed containers between 5°C and 25°C in well ventilated rooms.

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

Not available.

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**8. Exposure controls/personal protection**

The personal protection media should meet the requirements of the Directive of 89/686/EC (together with later changes) The employer is obliged to ensure measures of personal protection suitable to activities that are made and fulfilling all quality requirements as well as their cleaning and maintenance.

**8.1. Control parameters**

Ingredients with limit values that require monitoring in a work place.

Exposure control	NDS [mg/m <sup>3</sup> ]	NDSC [mg/m <sup>3</sup> ]
Phenol	7,8	16
Triethylenetetramine	1	3

**8.2. Exposure controls**

**Breathing equipment:**

Work in well ventilated rooms.

**Protection of hands and body:**

Wear overalls.

**Eye protection:**

Wear safety glasses.

**Environment exposure control**

Do not allow the product to reach sewage system, ground water, water reservoirs, and soil..

**9. Physical and chemical properties**

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

Physical state	high viscous liquid
Colour	dark grey
Density	1,3 – 1,5 g/cm <sup>3</sup>
Boiling point	>135°C
Flash point	>76°C
Odour	amine
Autoignition point	>500°C
Solubility in water	partly soluble
Solubility in ketones and esters	soluble

**9.2. Other information**

Lack of additional tests.

**10. Stability and reactivity**

**10.1. Reactivity**

Not available.

**10.2. Chemical stability**

The product is stable if it is properly handled and storage.

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**10.3. Possibility of hazardous reactions**

Reactions with strong acids and strong oxidizing agents.

**10.4. Conditions to avoid**

Peroxides, acids, aldehydes, ketones.

**10.5. Incompatible materials**

Not available.

**10.6. Hazardous decomposition products**

Do not occur if the product is properly stored. In case of unsuitable storage CO, CO<sub>2</sub>, NO<sub>x</sub> may be emitted.

**11. Toxicological information**

**11.1. Information on toxicological effects**

Irritating product. Irritating to eyes and skin. May cause allergy in persons particularly sensitive in contact with skin.

Acute toxicity- Component B:

Acute oral LD50: >50000 mg/kg (rat)

Acute dermal LD50: >1500 mg/kg (rat)

**12. Ecological information**

**12.1. Toxicity**

Lack of additional tests.

**12.2. Persistence and degradability**

Lack of additional tests.

**12.3. Bioaccumulative potential**

Possesses potential to bioaccumulation.

**12.4. Mobility in soil**

Easily absorbed by soil

**12.5. Results of PBT and vPvB assessment**

PBT Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

vPvB Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

**12.6. Other adverse effects**

Lack of additional tests.

For used resin

LC50 fish: 2,4 mg/l

EC50 daphnia: 3,6 mg/l

**13. Disposal considerations**

**13.1. Waste treatment methods**

Both components are distributed in one package in very small amounts. One package contains no more than 100g each of them. Such small amounts are usually used up completely in accordance with their designation. Waste material is undergone destroying in accordance with the state and local regulations.



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**15.2. Estimation of chemical safety:**

-

**16. Other information**

Explanation of symbols in Safety Data Sheet:

- H301 – Toxic if swallowed
- H302 – Harmful if swallowed
- H311 – Toxic in contact with skin
- H312 – Harmful in contact with skin
- H314 – Causes severe skin burns and eye damage
- H315 – Causes skin irritation
- H317 – May cause an allergic skin reaction
- H319 – Causes serious eye irritation
- H331 – Toxic if inhaled
- H373 – May cause damage to organs through prolonged or repeated exposure
- H341 – Suspected of causing genetic defects
- H412- Harmful to aquatic life with long lasting effects

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**MSDS developed by NALMAT Trzebinia**