

MATERIAL SAFETY DATA SHEET

EPOXY PUTTY - PACK A

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

- 1.1 Product identifier : Epoxy Products Epoxy Putty - Pack A
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Epoxy concrete repair compound
- 1.3 Details of the supplier of the safety data sheet : Epoxy Products Limited, Unit 7 Haviland Road, Ferndown Industrial Estate,
Wimborne, Dorset. BH21 7RZ England
Tel No. +44 (0) 1202 891899
- Email Address – Technical Information : sales@epoxyproducts.co.uk
- Telephone : +44 (0) 1202 891899
- 1.4 Emergency telephone number : +44 (0) 1202 891899

SECTION 2. Hazards Identification

- 2.1 Classification of the substance or mixture
Classification according to Regulation 1272/2008 (CLP)
Skin corrosion/irritant - Category 2 H315 : Causes skin irritation.
Eye damage/irritant – Category 2 H319 : Causes serious eye irritation
Skin sensitisation - Category 1 H317 : May cause an allergic skin reaction.
Aquatic Chronic - Category 2 H411 : Toxic to aquatic life with long lasting effects.

2.2 Label Elements

Hazard pictograms/symbols



Signal Word: Warning

Hazard Statements:

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

- Prevention : Wear protective gloves
Wear eye or face protection
Avoid release to the environment
- Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Disposal : Disposal of contents/container to be specified in accordance with national regulations.

2.3 Other Hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annexe X111

Not Applicable

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annexe X111

Not Applicable

SECTION 3. Composition/Information on Ingredients

Substance/Mixture	: Mixture				
Component	EINECS	CAS Number	Concentration %	Classification (CLP)	REACH REG
Epoxy Resin Bisphenol Type A (Mol.Wt.<700)	500-033-5	25068-38-6	<14	Skin Corr/Irrit. 2; H315 Eye Dam/Irrit. 2 ; H319 Skin Sens. 1 ; H317 Aquatic Chronic 2, H411	01-2119456619-26
Formaldehyde, polymer with (chloromethyl) oxirane and Phenol, MW<700	500-006-8	9003-36-5	<7	Skin Corr/Irrit. 2; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2, H411	01-2119454392-40
Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.	271-846-8	68609-97-2	<3	Skin Corr/Irrit. 2; H315 Skin Sens. 1 ; H317	01-2119485289

4. First-aid measures

4.1 Description of first aid measures

- Eye Contact : Rinse immediately with plenty of water also under the eyelids for at least 10 minutes. Remove contact lenses. Get medical attention.
- Skin Contact : Wash off immediately with plenty of water for at least 10 minutes. Wash off with soap and water. Immediately remove contaminated clothing and any extraneous chemical without delay.
- Ingestion : Wash out mouth with water. If victim has swallowed material and is still conscious give small amounts of water to drink. Stop if person feels sick. Do not induce vomiting unless directed to do so by medical personnel.. Seek immediate medical attention.

- 4.2 Most important symptoms and effects, both acute and delayed.
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|--------------------------------|--|
| Potential acute health effects | |
| Eye contact | Causes serious eye irritation |
| Inhalation | No known significant effects or critical hazards |
| Skin contact | Causes skin irritation. May cause an allergic skin reaction |
| Ingestion | Irritating to mouth, throat and stomach. |
| Over exposure signs/symptoms | |
| Eye contact | Adverse symptoms may include the following:
Pain or irritation
Watering
Redness |
| Inhalation | No known significant effects or critical hazards |
| Skin contact | Adverse symptoms may include the following:
Irritation
Redness |
| Ingestion | No specific data |
- 4.3 Indication of any immediate medical attention and special treatment needed
No specific treatment

SECTION 5. Fire-fighting measures

- 5.1 Extinguishing media
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|--------------------------------|---|
| Suitable extinguishing media | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | None known |
- 5.2 Special hazards arising from the substance
Hazards from the substance or mixture Incomplete combustion may form carbon dioxide ,carbon monoxide and halogenated compounds.
- 5.3 Advice for fire-fighters
Special protective actions for fire fighters Promptly isolate the scene by removing all persons from the vicinity of the fire.
Special protective equipment for fire fighters Fire fighters should wear appropriate protective equipment.

SECTION 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Wear suitable protective clothing, gloves and eye/face protection. Use self contained breathing apparatus and chemically protective clothing.
- 6.2 Environmental precautions
Prevent contamination of soil and water.
Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
- 6.3 Methods and material for containment and cleaning up
Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as for small spillage

SECTION 7. Handling and storage

- 7.1 Precautions for safe handling
Protective measures
Wear appropriate personal protective equipment. Avoid contact with eyes, skin or clothing. Do not ingest. Keep containers closed when not in use.
Advice on general occupational hygiene Do not eat, drink or smoke when handling this product. Wash hands after handling.
- 7.2 Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well ventilated areas
Do not store in unlabelled containers.

SECTION 8. Exposure controls/personal protection

- 8.1 Control parameters
Occupational exposure limits No exposure limit value known
- 8.2 Exposure controls
Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below explosion limits.
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|---------------------------------|---|
| Personal protective equipment | |
| Hand protection | Chemically resistant, impervious gloves should be worn at all times when handling.
Butyl rubber, Nitrile rubber, neoprene gloves, impervious gloves, latex or vinyl disposable gloves. |
| Eye/face protection | Protective eye glasses or goggles must be worn. |
| Skin and body protection | Standard issue work clothes. Long sleeve shirts, trousers or overalls must be worn. |
| Environmental exposure controls | Construct a dike to prevent spreading. |

SECTION 9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
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|-----------------------|-----------------------------------|
| Physical state/colour | Viscous liquid in various colours |
| Odour | Not available |
| Relative density | Not available |
| Flash Point | 150°C |
| Viscosity | Not available |
| Ph | Not available |

SECTION 10. Stability and reactivity

- 10.1 Reactivity Stable under normal conditions
- 10.2 Chemical stability This product is stable

10.3	Possibility of hazardous reactions	No specific data
10.4	Conditions to avoid	No specific data
10.5	Incompatible materials	No specific data
10.6	Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11. Toxicological information

11.1	Information on toxicological effects	
	Acute Toxicity	
	No data available on the product itself.	
	Components - Oral	
	Epoxy Resin Bisphenol Type A	No acutely toxic in rat and mouse studies, LD50>2000mg/kg
	Formaldehyde, polymer with (chloromethyl) oxirane and phenol, Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.	No acutely toxic in rat and mouse studies, LD50>2000mg/kg LD50 >2.0grams (Female Rat) and LD50 = 26.8 grams (Male Rat)
	Components - Inhalation	
	Epoxy Resin Bisphenol Type A	Due to the low vapour pressure, meaning ful acute inhalation studies could not be conducted.
	Formaldehyde, polymer with (chloromethyl) oxirane and phenol, Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.	No specific data No mortalities were observed in rats exposed for 7 hours to the saturated vapour (150mg/m ³)
	Components – Dermal	
	Epoxy Resin Bisphenol Type A	No acutely toxic in rat and mouse studies, LD50>2000mg/kg
	Formaldehyde, polymer with (chloromethyl) oxirane and phenol, Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.	No specific data No specific data
	Potential acute health effects	
	Eye contact	Causes serious eye irritation.
	Inhalation	Irritating to mouth, throat and stomach.
	Ingestion	No known significant effects or critical hazards
	Over exposure signs/symptoms	
	Eye contact	Adverse symptoms may include the following: Pain or irritation Watery Redness
	Inhalation	No known significant effects or critical hazards
	Skin contact	Adverse symptoms may include the following: Irritation Redness
	Ingestion	No specific data
	Chronic toxicity or effects from long term exposures	
	Carcinogenicity	No known significant effects or critical hazards
	Reproductive toxicity	No known significant effects or critical hazards
	Germ cell mutagenicity	No specific data is available.

SECTION 12. Ecological information

12.1	Toxicity	
	Aquatic toxicity	No data is available on the products itself
	Epoxy Resin Bisphenol Type A	Acute LC50 1.30 mg/l Fish
	Formaldehyde, polymer with (chloromethyl) oxirane and phenol, Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.	Acute LC50 2.54 mg/l Fish Acute LC50 1.80 mg/l Fish – Rainbow Trout Acute EC50 844 mg/l Aquatic Plants - Algae
12.2	Persistence and degradability	No data available
12.3	Bioaccumulative potential	No data available
12.4	Mobility in soil	No data is available

SECTION 13. Disposal considerations

13.1	Waste treatment methods	
	Product	Waste to be treated as controlled waste. Dispose to licensed waste disposal site. In accordance with local waste disposal authority.
	Packaging	Keep container labelled until cleaned and then remove or deface labels. Drain container thoroughly and rinse well with water. Treat rinsings as for product disposal. Empty packaging should be removed by a licensed waste contractor.

SECTION 14 Transport information

14.1	UN Number
14.2	UN Proper shipping name
14.3	Transport Hazard Class
14.4	Packaging Group

Land Transport ADR / ADN

UN Number	3082
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (LIQUID EPOXY RESIN, ALIPHATIC GLYCIDYL ETHER)
Transport Hazard Class	9
Packaging Group	111

Air Transport ICAO / IATA

UN Number	3082
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (LIQUID EPOXY RESIN, ALIPHATIC GLYCIDYL ETHER)
Transport Shipping Class	9
Packaging Group	111

Maritime Transport IMO / IMDG

UN Number	3082
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (LIQUID EPOXY RESIN, ALIPHATIC GLYCIDYL ETHER)
Transport Shipping Class	9
Packaging Group	111

14.5 Environmental hazards
 Environmentally hazardous and/or marine pollutant : YES

SECTION 15. Regulatory information

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture
 EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV – List of substances to authorisation.
 Substances of very high concern

Carcinogen	:	Not listed
Mutagen	:	Not listed
Toxic to reproduction	:	Not listed
PBT	:	Not listed
VPvB	:	Not listed

SECTION 16. Other Information

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

Full Text of Classifications (CLP)

Skin Corrosion/Irritation Category 2, H315	Skin Corrosion/irritation – Category 2
Skin Sensitisation Category 1, H317	Skin Sensitisation - Category 1
Eye Damage/Irritation Category 2, H319	Serious Eye Damage/Eye Irritation – Category 2
Aquatic Chronic Category 2, H411	Aquatic Hazard (Long lasting) – Category 2

Date Issued	:	29.05.2015
Reference	:	EC/A/07
Product Code	:	Epoxy Products Epoxy Coating (Resin- Pack A)
Intended Use	:	Epoxy resin coating.

The information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

MATERIAL SAFETY DATA SHEET

EPOXY PUTTY - PACK B

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

- 1.1 Product identifier : Epoxy Products Epoxy Putty - Pack B
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Epoxy Curing Agent
- 1.3 Details of the supplier of the safety data sheet : Epoxy Products Limited, Unit 7 Haviland Road, Ferndown Industrial Estate,
Wimborne, Dorset. BH21 7RZ England
Tel No. +44 (0) 1202 891899
- Email Address – Technical Information : sales@epoxyproducts.co.uk
- Telephone : +44 (0) 1202 891899
- 1.4 Emergency telephone number : +44 (0) 1202 891899

SECTION 2: Hazards Identification

- 2.1 Classification according to Regulation 1272/2008 (CLP)
Skin Irrit. - Category 2 H315 : Causes skin irritation.
Serious eye damage - Category 1 H318 : Causes serious eye damage.
Skin sensitisation - Category 1 H317 : May cause an allergic skin reaction.
Aquatic Chronic - Category 2 H411 : Toxic to aquatic life with long lasting effects.

- 2.2 Label Elements
Hazard pictograms/symbols



Signal Word: Danger

Hazard Statements:
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention : Wear protective gloves/protective clothing/eye protection/face protection.

Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.. Immediately call a POISON CENTRE/doctor.

Disposal : Disposal of contents/container to be specified in accordance with national regulations.

- 2.3 Other Hazards

SECTION 3. Composition/Information on Ingredients

Substance/Mixture	: Mixture				
Component	EINECS	CAS Number	Concentration %	Classification (CLP)	REACH REG
Fatty acids, C18-unsatd., dimers oligomeric reaction products with fatty acids. C16-18 branched and linear tetraethylenepentamine and triethylenetetramine	500-382-3	157707-73-8	<25	Skin Irrit. 2 ; H315 Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411	01-2119972324-36

SECTION 4: First-aid measures

- 4.1 Description of first aid measures
- General advice : Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen maybe indicated. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye Contact : Rinse immediately with plenty of water also under the eyelids for at least 10 minutes. Remove contact lenses.
- Skin Contact : Wash off immediately with plenty of water for at least 10 minutes. Wash off with soap and water. Immediately remove contaminated clothing and any extraneous chemical without delay.
- Ingestion : Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victims head to one side.
- Inhalation : Remove to fresh air. If rapid recovery does not occur, obtain medical attention.
- 4.2 Most important symptoms and effects, both acute and delayed.
Symptoms : No data available
- 4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5. Fire-fighting measures

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|-----|--|--|
| 5.1 | Extinguishing media | Use an extinguishing agent suitable for the surrounding fire. |
| | Extinguishing media – Not suitable | None known |
| 5.2 | Special hazards arising from the substance | Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated |
| 5.3 | Advice for fire-fighters | Avoid contact with skin. Use personal protective equipment. Wear self-contained breathing apparatus for fire fighting if necessary. |

SECTION 6. Accidental release measures

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|-----|--|---|
| 6.1 | Personal precautions, protective equipment | Wear suitable protective clothing, gloves and eye/face protection. Use self contained breathing |
| 6.2 | Environmental precautions | Prevent contamination of soil and water.
Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. |
| 6.3 | Methods and material for containment and cleaning up | Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as for small spillage |

SECTION 7. Handling and storage

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|-----|--|---|
| 7.1 | Precautions for safe handling | Adhere to work practice rules established by government regulations. Avoid contact with skin and eyes. Use personal protective equipment. When using, do not eat, drink or smoke. |
| 7.2 | Conditions for safe storage, including any incompatibilities | Do not store near acids. Keep away from alkalis. Keep containers tightly closed in a dry, cool and well ventilated place. |

SECTION 8. Exposure controls/personal protection

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|-----|--------------------------|---|
| 8.1 | Control parameters | No exposure limit value known |
| 8.2 | Exposure controls | Personal protective equipment must be worn |
| | Hand protection | Chemically resistant, impervious gloves should be worn at all times when handling.
Butyl rubber, Nitrile rubber, neoprene gloves, impervious gloves, latex or vinyl disposable gloves. |
| | Eye/face protection | Protective eye glasses or goggles must be worn. |
| | Skin and body protection | Standard issue work clothes. Long sleeve shirts, trousers or overalls must be worn. |

SECTION 9. Physical and chemical properties

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|-----|---|------------------------------|
| 9.1 | Information on basic physical and chemical properties | |
| | Physical state/colour | Putty/Black |
| | Odour | Amine like |
| | Autoignition temperature | No data available |
| | Self inflammability | Product is not self-igniting |
| | Danger of explosion | Product is not explosive |
| | Viscosity | No data is available |
| | Ph | Alkaline |

SECTION 10. Stability and reactivity

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|------|------------------------------------|---|
| 10.1 | Reactivity | No specific test data related to reactivity for this product. |
| 10.2 | Chemical stability | Stable |
| 10.3 | Possibility of hazardous reactions | Under normal conditions no hazardous reactions will occur. |
| 10.4 | Conditions to avoid | No data available |
| 10.5 | Incompatible materials | Strong acids, strong bases and strong oxidising agents |
| 10.6 | Hazardous decomposition products | Under normal conditions of storage and use hazardous decomposition products should not be produced. Burning produces obnoxious and toxic fumes. |

SECTION 11. Toxicological information

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|------|---|---|
| 11.1 | Information on toxicological effects | |
| | Acute Toxicity | No data available on the product itself. |
| | Acute Oral Toxicity - Components | LD50: >8,000 mg/kg Species: Rat |
| | Fatty acids, C18-unsatd., dimers oligomeric reaction products with linear tetraethylenepentamine and triethylenetetramine | |
| | Acute Inhalation Toxicity | |
| | Inhalation – Components | |
| | Acute Dermal Toxicity | No data available on the product itself. |
| | Chronic toxicity or effects from long term exposures | |
| | Carcinogenicity | No data is available |
| | Reproductive toxicity | No data is available on the product itself |
| | Germ cell mutagenicity | No data is available on the product itself. |
| | Aspiration hazard | No data available |

SECTION 12. Ecological information

12.1 Toxicity	
Aquatic toxicity	No data is available
12.2 Persistence and degradability	No data is available
12.3 Bioaccumulative potential	No data is available
12.4 Mobility in soil	No data is available

SECTION 13. Disposal considerations

Waste treatment methods	Waste to be treated as controlled waste. Dispose to licensed waste disposal site. In accordance with local waste disposal authority.
Contaminated Packaging	Keep container labelled until cleaned and then remove or deface labels. Drain container thoroughly and rinse well with water. Treat rinsings as for product disposal. Empty packaging should be removed by a licensed waste contractor.

SECTION 14 Transport information

- 14.1 UN Number
- 14.2 UN Proper shipping name
- 14.3 Transport Hazard Class
- 14.4 Packaging Group

Land Transport ADR / ADN

UN Number	3082
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (DIMER FATTY ACID (C18) POLYAMIDOAMINE RESIN)
Transport Hazard Class	9
Packaging Group	111

Air Transport ICAO / IATA

UN Number	3082
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (DIMER FATTY ACID (C18) POLYAMIDOAMINE RESIN)
Transport Shipping Class	9
Packaging Group	111

Maritime Transport IMO / IMDG

UN Number	3082
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (DIMER FATTY ACID (C18) POLYAMIDOAMINE RESIN)
Transport Shipping Class	9
Packaging Group	111

- 14.5 Environmental hazards
- Environmentally hazardous and/or marine pollutant : YES

SECTION 15. Regulatory information

- 15.1 Safety, health and environment regulations/legislation specific for the substance or mixture
 - Country : EU
 - Regulatory List : EINECS
 - Notification : Included on EINECS inventory

SECTION 16. Other Information

Hazard Statements

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects

Date Issued	:	28.05.2015
Reference	:	EP/B/07
Product Code	:	Epoxy Products Epoxy Putty (Hardener - Pack B)
Intended Use	:	Epoxy concrete repair compound

The information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.