

MATERIAL SAFETY DATA SHEET

EPOXY COATING WB – FLEXIBLE GRADE

PACK A

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

- 1.1 Product identifier : Epoxy Products Epoxy Coating WB – Flexible Grade - Pack A
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Epoxy resin coating
- 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	<15	Skin Corr/Irrit. 2; H315 Eye Dam/Irrit. 2 ; H319 Skin Sens. 1 ; H317 Aquatic Chronic 2, H411	01-2119456619-26
Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.	271-846-8	68609-97-2	<5	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.
- | | |
|--------------------------------|--|
| 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
- | | |
|--------------------------------|---|
| 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
- 8.2 Exposure controls
- | | |
|------------------------|--|
| Engineering measures | Ensure there is sufficient ventilation of the storage area. |
| Respiratory protection | None required |
| Hand protection | Protective gloves |
| Eye protection | Safety glasses. Ensure eye bath or eye cleanser kits are available |
| Skin protection | Protective clothing |

SECTION 9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- | | |
|-----------------------|---------------------------|
| Physical state/colour | Liquid in various colours |
| Odour | Not available |
| Relative density | Not available |
| Viscosity | Viscous |

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
Heat
- 10.5 Incompatible materials
Strong oxidising agents. Strong acids.
- 10.6 Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. In combustion emits toxic fumes.

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
(chloromethyl) oxirane and phenol, Oxirane, mono{(C12-C14-alkyloxy methyl) derivs.	Formaldehyde, polymer with 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, meaningful acute inhalation studies could not be conducted.
Oxirane, mono{(C12-C14-alkyloxy methyl) derivs.	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
Oxirane, mono{(C12-C14-alkyloxy methyl) derivs.	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 Watering 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
Oxirane, mono{(C12-C14-alkyloxy methyl) derivs.	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	:	22.06.2016
Reference	:	ECWBFG/A/01
Product Code	:	Epoxy Products Epoxy Coating WB – Flexible Grade (Resin- Pack A)
Intended Use	:	Flexible 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 COATING WB – FLEXIBLE GRADE

PACK B

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

- 1.1 Product identifier : Epoxy Products Epoxy Coating WB – Flexible Grade - 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 irritation - Category 2 H315 : Causes skin irritation.
Serious eye damage - Category 1 H318 : Causes serious eye damage.

- 2.2 Label Elements
Hazard pictograms/symbols



Signal Word: Danger

Hazard Statements:

H315: Causes skin irritation.

H318: Causes serious eye damage.

Precautionary Statements:

P264 : Wash skin thoroughly after handling

P280 : Wear protective gloves/protective clothing/eye protection/face 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.

P310 : Immediately call a POISON CENTRE/doctor.

- 2.3 Other Hazards
No data available

SECTION 3. Composition/Information on Ingredients

Substance/Mixture : Mixture

Component	EINECS	CAS Number	Concentration %	Classification (CLP)	REACH REG
Tri ethylenetetramine, 2,2'-	Polymer	1312024-88-6	<12	Skin Irrit 2 ; H315	-
Iminodi(ethylamine),				Skin Irrit 2 ; H315	
Butanediol, Methylphenol				Eye Dam. 1 ; H318	
Phenol, Bisphenol A,					
Epichlorohydrin Formaldehyde					
Amine Functional Copolymer					

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 20 minutes. Remove contact lenses.
- Skin Contact : Wash off immediately with plenty of water for at least 20 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

5.1	Extinguishing media Extinguishing media – Not suitable	Alcohol resistant foam, carbon dioxide, dry chemical, dry sand or limestone powder No data available
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

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

7.1	Precautions for safe handling	Do not use sodium nitrate or other nitrosating agents in formulations containing this product. Suspected cancer causing nitrosamines could be formed. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with 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

8.1	Control parameters	If applicable, refer to the extended section of the MSDS (available upon request)
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.
8.2	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.
	Special instructions for protection and	Discard contaminated clothing. Provide accessible eye wash stations and safety showers. Wash hands at the end of each workshift and before eating, drinking, smoking or using the toilet.

SECTION 9. Physical and chemical properties

9.1	Information on basic physical and chemical properties	
	Physical state/colour	Liquid. Various colours
	Odour	Characteristic
	Relative density	No data given
	Autoignition temperature	No data available
	Self inflammability	Product is not self-igniting
	Viscosity	No data is available
	Ph	Alkaline
	Water Solubility	Soluble

SECTION 10. Stability and reactivity

10.1	Reactivity	No data available
10.2	Chemical stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	Polymerisation will not occur
10.4	Conditions to avoid	Some components of this product will decompose at elevated temperatures
10.5	Incompatible materials	Acids, Halogenated hydrocarbons, Oxidisers
10.6	Hazardous decomposition products	Aromatic compounds, Amines, Hydrocarbons, Phenolics

SECTION 11. Toxicological information

11.1	Information on toxicological effects	
	Acute Oral Toxicity	Low toxicity if swallowed. Small amounts swallowed are not likely to cause injury. Large amounts swallowed may cause injury. Single dose LD50 has not been determined.
	Acute Inhalation Toxicity	At room temperature, exposure to vapour is minimal due to low volatility; vapour from heated material may cause respiratory irritation. The LC50 has not been determined.
	Acute Dermal Toxicity	Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal LD50 has not been determined.
	Skin corrosion/irritation	Prolonged contact may cause skin irritation with local redness.
	Serious eye damage/ eye irritation	Risk of serious damage to eyes.
	Sensitisation	May cause sensitisation of susceptible persons by skin contact.

Specific target organ systemic toxicity (single exposure)	This product is not an STOT-SE toxicant
Specific target organ systemic toxicity (repeated exposure)	No data available
Carcinogenicity	No relevant data found
Reproductive toxicity	No relevant data found
Germ cell mutagenicity	No relevant data found
Aspiration hazard	Not likely to be an aspiration hazard

SECTION 12. Ecological information

12.1 Toxicity	
Aquatic toxicity	No data is available on the products itself
12.2 Persistence and degradability	No data available on the product itself
12.3 Bioaccumulative potential	No data available on the product itself
12.4 Mobility in soil	No data is available on the product itself
12.5 Results of PBT and vPvB	This product is not considered to be persistent, bioaccumulating and toxic (PBT) This product is not considered to be very persistent, or very bioaccumulating (vPvB)

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.

14. Transport Information

Road Transport - ADR	Not dangerous goods
Air Transport - IATA	Not dangerous goods
Maritime Transport - IMDG	Not dangerous goods

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

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

Date Issued	:	22.06.2016
Reference	:	ECWBFG/B/01
Product Code	:	Epoxy Products Epoxy Coating WB- Flexible Grade (Hardener - Pack B)
Intended Use	:	Epoxy resin curing agent

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.