MATERIAL SAFETY DATA SHEET
EPOXY FLEXIBLE COATING WB
PACK A

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

1.1	Product identifier	:	Epoxy Products Epoxy Flexible Coating WB - 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

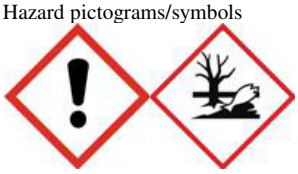
2.1 Classification of the substance or mixture

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
		Formaldehyde, polymer with no acutely toxic in rat and mouse studies, LD50>2000mg/kg
	(chloromethyl) oxirane and phenol,	
	Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.	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.
	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 X1V – 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 Classiofications (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	:	23.05.2017
Reference	:	EFCWB/A/01
Product Code	:	Epoxy Products Epoxy Flexible Coating WB (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'-Iminodi(ethylamine), Butanediol, Methylphenol Phenol, Bisphenol A, Epichlorohydrin Formaldehyde Amine Functional Copolymer	Polymer	1312024-88-6	<12	Skin Irrit 2 ; H315 Skin Irrit 2 ; H315 Eye Dam. 1 ; H318	-

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	Alcohol resistant foam, carbon dioxide, dry chemical, dry sand or limestone powder
	Extinguishing media – Not suitable	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 persistant, bioccumulating and toxic (PBT) This product is not considered to be very persistant, or very bioccumulating (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
Notofication	:	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.