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
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

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>EINECS</th>
<th>CAS Number</th>
<th>Concentration %</th>
<th>Classification (CLP)</th>
<th>REACH REG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Resin Bisphenol Type A (Mol. Wt.&lt;700)</td>
<td>500-033-5</td>
<td>25068-38-6</td>
<td>&lt;15</td>
<td>Skin Corr/Irrit. 2; H315</td>
<td>01-2119456619-26</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Dam/Irrit. 2 : H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1 ; H317</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2, H411</td>
<td></td>
</tr>
<tr>
<td>Oxirane, mono[(C12-C14-alkyloxy) methyl] derivs.</td>
<td>271-846-8</td>
<td>68609-97-2</td>
<td>&lt;5</td>
<td>Skin Corr/Irrit. 2; H315</td>
<td>01-2119485289</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1 ; H317</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No known significant effects or critical hazards</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Causes skin irritation. May cause an allergic skin reaction</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Irritating to mouth, throat and stomach.</td>
</tr>
</tbody>
</table>

Over exposure signs/symptoms

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td>Pain or irritation</td>
</tr>
<tr>
<td></td>
<td>Watering</td>
</tr>
<tr>
<td></td>
<td>Redness</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No known significant effects or critical hazards</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td>Irritation</td>
</tr>
<tr>
<td></td>
<td>Redness</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No specific data</td>
</tr>
</tbody>
</table>

4.3 Indication of any immediate medical attention and special treatment needed

No specific treatment

SECTION 5. Fire-fighting measures

5.1 Extinguishing media

<table>
<thead>
<tr>
<th>Media</th>
<th>Suitable extinguishing media</th>
<th>Unsuitable extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>None known</td>
</tr>
</tbody>
</table>

5.2 Special hazards arising from the substance

| Hazard                  | Incomplete combustion may form carbon dioxide, carbon monoxide and halogenated compounds. |

5.3 Advice for fire-fighters

<table>
<thead>
<tr>
<th>Action</th>
<th>Firefighters should wear appropriate protective equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special protective actions for fire fighters</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the fire.</td>
</tr>
<tr>
<td>Special protective equipment for fire fighters</td>
<td>Treat residues as for small spillage</td>
</tr>
</tbody>
</table>

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Wear suitable protective clothing, gloves and eye/face protection. Use self contained breathing apparatus and chemically protective clothing.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental precautions</td>
<td>Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.</td>
</tr>
<tr>
<td>Methods and material for containment and cleaning up</td>
<td>Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as for small spillage</td>
</tr>
</tbody>
</table>

SECTION 7. Handling and storage

7.1 Precautions for safe handling

<table>
<thead>
<tr>
<th>Measure</th>
<th>Wear appropriate personal protective equipment. Avoid contact with eyes, skin or clothing. Do not ingest. Keep containers closed when not in use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advice on general occupational hygiene</td>
<td>Do not eat, drink or smoke when handling this product. Wash hands after handling.</td>
</tr>
<tr>
<td>Conditions for safe storage, including any incompatibilities</td>
<td>Keep containers tightly closed in a dry, cool and well ventilated areas</td>
</tr>
<tr>
<td></td>
<td>Do not store in unlabelled containers.</td>
</tr>
</tbody>
</table>

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Measures</th>
<th>Ensure there is sufficient ventilation of the storage area.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering measures</td>
<td>None required</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>Protective gloves</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Safety glasses. Ensure eye bath or eye cleanser kits are available</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Protective clothing</td>
</tr>
<tr>
<td>Skin protection</td>
<td>Not available</td>
</tr>
</tbody>
</table>

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state/colour</td>
<td>Liquid in various colours</td>
</tr>
<tr>
<td>Odour</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Viscous</td>
</tr>
</tbody>
</table>

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
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.
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
   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
   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

<table>
<thead>
<tr>
<th>Component</th>
<th>EINECS</th>
<th>CAS Number</th>
<th>Concentration %</th>
<th>Classification (CLP)</th>
<th>REACH REG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tri ethylenetetramine, 2,2'-Polymers</td>
<td>1312024-88-6</td>
<td>&lt;12</td>
<td>Skin Irrit 2 ; H315</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Imidodi(ethyamine), Butanediol, Methylphenol</td>
<td></td>
<td></td>
<td>Skin Irrit 2 ; H315</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Phenol, Bisphenol A, Epichlorohydrin Formaldehyde Amine Functional Copolymer</td>
<td></td>
<td></td>
<td>Eye Dam. 1 ; H318</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

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 resprations.
   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
No data available

5.2 Special hazards arising from the substance

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 apparatus for fire fighting if necessary.

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 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
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 disposal
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  This product is not an STOT-SE toxicant
(single exposure)
Specific target organ systemic toxicity  No data available
(repeated exposure)
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 product 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, biocaccumulating and toxic (PBT)
This product is not considered to be very persistent, or very biocaccumulating (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.