



# MATERIAL SAFETY DATA SHEET

PART NUMBER 11 10 65 / 11 10 67

## SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

Company Metprep Limited  
Curriers Close  
Charter Avenue  
Coventry  
CV4 8AW

Telephone 02476 421222  
Fax 02476 421192

PRODUCT: EPO-FLO RESIN

## SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature

Formulated bisphenol A epoxy resin  
reparation

Hazardous components

| Chemical Name   | CAS-No.    | Symbol(s): | R-phrase(s)                 | Concentration[%] |
|---|------------|------------|-----------------------------|------------------|
| reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) | 25068-38-6 | Xi, N      | R36/38 R43 R51/53           | 50.00 - 62.00    |
| butanedioldiglycidyl ether<br>EC-No.:219-371-7  | 2425-79-8  | Xn         | R20/21 R36/38 R43<br>R52/53 | 40.00 - 52.00    |

## SECTION 3 SUBSTANCE HAZARD IDENTIFICATION

Harmful by inhalation and in contact with skin. Irritating to eyes and skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment



## SECTION 4 FIRST AID MEASURES

|              |  |
|--------------|--|
| Inhalation   | Move to fresh air.<br>Call a physician immediately.  |
| Eye contact  | Rinse immediately with plenty of water for at least 15 minutes.<br>If eye irritation persists, consult a specialist. |
| Skin contact | Wash off immediately with soap and plenty of water.<br>If skin irritation persists, call a doctor                    |
| Ingestion    | Do not induce vomiting<br>Immediately give plenty of water (if possible charcoal slurry)<br>Obtain medical attention |

## SECTION 5 FIRE FIGHTING MEASURES

|   |   |
|---|---|
| Suitable extinguishing Media                                  | Water spray.<br>Dry powder.<br>Carbon dioxide (CO <sub>2</sub> )<br>Foam. |
| Extinguishing media which Must not be used for safety reasons | High Volume water jet   |
| Special protective Equipment for fire-fighters                | Wear self-contained breathing apparatus and protective suit.              |
| Further information   | Burning produces obnoxious and toxic fumes.<br>Carbon oxides              |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

|                           |  |
|---------------------------|--|
| Personal precautions      | Keep away from sources of ignition - No smoking. Do not breath vapours/dust. Avoid contact with skin, eyes and clothing. |
| Environmental precautions | Prevent product from entering drains. Do not contaminate surface water. Avoid subsoil penetration.                       |
| Methods for cleaning up   | Soak up with inert absorbent material and dispose of as hazardous waste.   |

## SECTION 7 HANDLING AND STORAGE

|   |   |
|---|---|
| <b>Handling</b><br>Advice on safe handling                  | Provide sufficient air exchange and/or exhaust in work rooms.<br>Handle and open container with care.                         |
| <b>Storage</b><br>Further information on storage conditions | Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep at temperatures between 2 and 40°C. |



**SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION**

Engineering measures

No special precautions required.

Personal protective equipment

|                          |   |
|--------------------------|---|
| Respiratory protection   | In case of insufficient ventilation wear suitable respiratory equipment.<br>Filter type AX-P2 (organic vapours, particles)  |
| Eye protection           | Tightly fitting safety goggles.   |
| Hand protection          | Material of gloves for long term application (BTT>480 min):<br>Butyl rubber<br>Ethyl Vinyl Alcohol Laminate (EVAL)<br>Material of gloves for short term/splash application (10 min<BTT<480 min):<br>Nitrile rubber Neoprene<br>rubber<br>Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US).<br>Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.<br>Additional information can be found for instance at <a href="http://www.gisbau.de">www.gisbau.de</a> |
| Skin and body protection | long sleeved clothing   |
| Hygiene measures         | Keep away from food, drink and animal feeding stuffs.<br>Wash hands before breaks and immediately after handling the product.   |
| Protective measures      | Keep away from sources of ignition - No smoking.<br>Avoid contact with skin, eyes and clothing.   |

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

|                                   |                               |
|-----------------------------------|-------------------------------|
| Form                              | liquid                        |
| Colour                            | light blue<br>clear           |
| Odour                             | slight                        |
| pH                                | approx at(20°C) 1:1 in water  |
| Boiling point                     | >200 °C                       |
| Thermal decomposition Flash point | >200 °C                       |
| Flash point                       | >140 °C                       |
|                                   | Method: DIN 51758             |
| Vapour pressure                   | <0.01Pa at 20 °C              |
| Density                           | 1.12g/cm <sup>3</sup> at 25°C |
| Water solubility                  | at 20°C Note: partly soluble  |
| Miscibility with water            | immiscible at 20°C            |
| Viscosity, dynamic                | 150 mPa.s at 25°C             |

**SECTION 10****STABILITY AND REACTIVITY PROPERTIES**

|                                  |  |
|----------------------------------|--|
| Conditions to avoid              | Note: Take necessary action to avoid static electricity discharge. |
| Materials to avoid               | Strong acids and strong bases.<br>Strong oxidizing agents.         |
| Hazardous decomposition Products | Carbon oxides. Burning produces obnoxious and toxic fumes.         |

**SECTION 11****TOXICOLOGICAL INFORMATION**

|                     |  |
|---------------------|--|
| Acute oral toxicity | LD50 rat Dose >5,000 mg/kg                   |
| Eye irritation      | irritating, rabbit                           |
| Skin irritation     | irritating, rabbit, dermal                   |
| Sensitization       | Causes sensitization<br>Quinea pig<br>dermal |

**SECTION 12****ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

|                  |                                   |
|------------------|-----------------------------------|
| Biodegradability | Result: not readily biodegradable |
|------------------|-----------------------------------|

**Ecotoxicity effects**

|                                   |   |
|-----------------------------------|---|
| Additional ecological Information | Avoid subsoil penetration.<br>Prevent product from entering the drains<br>Do not contaminate surface water. |
|-----------------------------------|---|

**SECTION 13****DISPOSAL CONSIDERATIONS**

|           |   |
|-----------|---|
| Product   | Waste key number 070208<br>Must be incinerated, when in compliance with local regulations   |
| Container | Empty containers can be land filled after cleaning, when in compliance with Environmental Protection (duty of care) Regulations 1991. |

**SECTION 14****TRANSPORT INFORMATION****Land Transport**

ADR:  
Un-No: 3082  
Class: 9  
Classification code M6  
Packaging Group III  
Risk No: 90  
ADR/RID- Labels 9  
Proper Shipping Name: Environmentally hazardous substance, liquid  
N.O.S  
Contains Bisphenol A Epoxy Resin

**Sea Transport**

IMDG  
UN-No: 3082  
Class: 9  
Packaging group III  
ADR/RID Labels 9  
MFAG:  
EmS: F-A-S-F  
Proper shipping name Environmentally hazardous substance, liquid  
N.O.S  
Contains Bisphenol A Epoxy Resin

**Air Transport**

IATA-DGR  
UN/ID No: UN3082  
Class: 9  
Packaging Group III  
Packing instruction 914  
(Cargo aircraft)  
Max. Qty/Pack 450L  
(999.00 = No Limit)  
Packing Instruction 914  
(passenger aircraft)  
Max. Qty/Pack 450L  
ADR/RID Labels 9  
Proper shipping name: Environmentally hazardous substance, liquid  
N.O.S  
Contains Bisphenol A Epoxy Resin

**SECTION 15****REGULATORY INFORMATION****Labelling according to EEC Directive****Labelling required**

|   |   |   |
|---|---|---|
| Symbol(s):  | Xn<br>N   | Harmful<br>Dangerous for the environment  |
| R-phrases)  | R20/21<br>R36/38<br>R43<br>R51/53   | Harmful by inhalation and in contact with skin<br>Irritating to eyes and skin<br>May cause sensitization by skin contact.<br>Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.              |
| S-phrases(s)  | S28<br>S36/37/39<br>S61   | After contact with skin, wash immediately with plenty of soap and water.<br>Wear suitable protective clothing, gloves and Eye/face protection.<br>Avoid release to the environment. Refer to special Instructions/safety data sheets. |
| Exceptional labelling of Special preparations Hazardous components Which must be listed on the label: | Contains epoxy constituents. See information applied by manufacturer.<br>butanedioldiglycid; ether<br>EC-No: 219-371-7<br>reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700) |   |

**SECTION 16****OTHER INFORMATION**

List of R-phrases (section 3)