

MATERIAL SAFETY DATA SHEET**EPOXY RESIN CPR 6****REVISION 2****12 JUNE 2003****1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION**

PRODUCT NAME: **EPOXY RESIN CPR 6**
INTENDED USE: Two pack epoxy resin adhesive

UK STOCKIST AND DISTRIBUTOR

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MANUFACTURER

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2 – COMPOSITION / INFORMATION ON INGREDIENTSCHEMICAL NATURE

Modified liquid Bis-phenol A/epichlorohydrin epoxy resin containing inert fillers.

CAS No: Preparation EINECS No: Polymer Exempt

INGREDIENTS CONTRIBUTING TO HAZARDS

%	Substance	CAS No	EINECS No	Symbol	R phrases
45-50	Bis phenol A epoxy resin	25068-38-6	-	Xi, N	36/38-43-51/53
5-8	Benzyl alcohol	100-51-6	202-859-9	Xn	20/22

3 – HAZARDS IDENTIFICATIONHealth Hazard

Irritating to eyes and skin, may cause sensitisation by skin contact.

Environmental Hazard

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

Physical and Chemical Hazards

-

Fire and Explosion

-

Other Hazard

Avoid formation of aerosol.

4 – FIRST AID MEASURES

General

Immediately remove contaminated clothing, wear protective gloves (see section 8), take care not to contaminate unaffected areas.

Eye Contact

Rinse immediately with water for at least 15 minutes holding the eyelid open; get medical attention immediately.

Skin Contact

Wash affected area with water for at least 15 minutes. If irritation persists obtain medical advice. Contaminated clothing must be laundered before re-use. Discard contaminated leather-wear.

Inhalation

Move affected person to fresh air. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. In case of irritation to the respiratory system or mucous membranes, or if you feel unwell or in case of prolonged exposure, get medical attention.

Ingestion

Immediately rinse the mouth with water. DO NOT INDUCE VOMITING. Keep warm and at rest. If swallowing has occurred drink water in small sips. Obtain medical attention immediately, show this safety data sheet.

5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water mist; Carbon Dioxide; Foam; Dry Powder.

Unsuitable Extinguishing Media

DO NOT use high pressure water jet.

Exposure Hazards

Thermal decomposition or burning may release oxides of carbon and other toxic gases or vapours. Keep cool by spraying with water. Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulation.

Protective Equipment

Use full protective clothing and self-contained breathing apparatus.

6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions

Shut off all ignition sources. Avoid contact with skin, eyes and clothing. Wear suitable protective clothing (including respiratory protection).

Environmental Precautions

Prevent contamination of soil, drains and surface waters by use of temporary bund.

Methods for Cleaning

Large Spillage: Keep public away. Advise police if preparation has entered a watercourse or sewer. Scrape up with shovels and place in suitable containers for recycle or disposal. Soak up remainder with absorbent, inert material.

Small Spillage: Take up with absorbent, inert material and place in suitable and closed container for disposal.

7 - HANDLING AND STORAGE

Handling

Handle and open containers with care. Do NOT pressurise containers. Avoid contact with skin, eyes and clothing. Avoid inhaling vapour, ensure good ventilation and use local exhaust. Emergency shower and eye wash facilities should be readily available. Do not eat, drink or smoke at the workplace. If you feel unwell, seek medical advice (show label where possible).

Storage

Keep away from food and drink and animal feed-stuffs. Store in the original container securely closed in a cool, dry and well ventilated area.

Protect from : Amines

Storage temperature °C : Ambient

Suitable storage materials: Mild/stainless steel/Polyethylene lined containers.

8 – EXPOSURE CONTROL/PERSONAL PROTECTION

UK Occupational Exposure standard (UK EH40)

None established	8h TWA	15 min STEL
	8h TWA	15 min STEL
	8h TWA	15 min STEL

Technical Protective Measures

Local Exhaust ventilation.

Respiratory Protection

Chemical cartridge if there is a risk of breathing mists, vapours or aerosols.

Cartridge: ABEK (1P) check with PPE manufacturer.

Eye Protection

Tightly fitting safety goggles, face shield.

Hand Protection

Gloves: PVC/Nitrile rubber gloves.

Replace immediately if signs of degradation are observed.

Check with PPE manufacturer.

Environment Protection

Skin Protection

Wear overalls and safety shoes.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous liquid
Colour	Beige
Odour	Characteristic
PH Value	Not Available
Relative Density	1.50
Viscosity	50 poise @ 25°C
Boiling point/range	>200 °C
Vapour Pressure	Not Available
Flashpoint	>150 °C
Vapour Density	Not Available
Flammability	Not Available
Evaporation Rate	Not Available
Explosive Properties	Not Available
Solubility in Water	Insoluble
Oxidising properties	Not Available
Solubility in Fat	Not Available
Partition Coeff	Not Available
Miscibility	Not Available
Autoflammability	Not Available
Conductivity	Not Available
Melting point/range	Minus 5°C

10 – STABILITY AND REACTIVITY

Stability	Stable under normal conditions. Reacts violently with: amines, oxidising agents.
Hazardous Polymerisation	No
Conditions to Avoid	Do not leave containers open.
Materials to Avoid	Oxidising agents, Amines (Exothermic).
Hazardous Decomposition Products	Thermal decomposition or burning may release oxides of carbon.

11 – TOXICOLOGICAL INFORMATION

Acute toxicity skin, eye Contains components that are hazardous by the following routes:
and inhalation.

LD50 ORAL TOXICITY RATS >2000 mg/kg Epoxy resin
LD50 DERMAL TOXICITY
LC50 INHL TOXICITY IN RATS
LD50 ORAL TOXICITY RATS
LD50 DERMAL TOXICITY
LC50 INHL TOXICITY IN RATS

Corrosivity/Irritation

EYES Irritates, pain, redness
SKIN Irritating. Possible dermatitis must be considered.
INHALATION May irritate respiratory tract.

Sensitisation

SKIN May cause sensitisation.
INHALATION -

11 – TOXICOLOGICAL INFORMATION (Continued)

<u>Repeat Dose Toxicity</u>	-
<u>Carcinogenicity</u>	-
<u>Mutagenicity</u>	-
<u>Reproductive Toxicity</u>	-
<u>Additional Information</u>	-

12 – ECOLOGICAL INFORMATIONPrevent Contamination of Soil, Drains or Surface Water.

<u>Mobility</u> and	Sinks in water. If product enters soil, it will be mobile may contaminate groundwater.
<u>Degradability</u>	Not readily bio-degradable.
Bioconcentration factor	Has the potential to bioaccumulate.
Biological oxygen demand (BOD)	Not available.
Chemical oxygen demand (COD)	Not available.

LC ₅₀ Fish (96 hr)	Toxic, 1<LC/EC/IC 50<= 10 mg/l	Epoxy resin
EC ₅₀ Daphnia (48 hr)	Toxic, 1<LC/EC/IC 50<= 10 mg/l	Epoxy resin
IC ₅₀ Algae (72 hr)	Toxic, 1<LC/EC/IC 50<= 10 mg/l	Epoxy resin
EC ₅₀ Bacteria (48 hr)	Not available.	
LC ₅₀ Fish (96 hr)		
EC ₅₀ Daphnia (48 hr)		
IC ₅₀ Algae (72 hr)		
EC ₅₀ Bacteria (48 hr)		

The product may be harmful to aquatic organisms

13 – DISPOSAL CONSIDERATION

The UK Environmental Protection (Duty of Care) regulations (EP) and amendments should be noted (United Kingdom).

Product disposal

The preparation must be disposed of by special means. Dispose by incineration or landfill via a licensed waste disposal contractor in accordance with local and national regulations.

Container disposal

Contaminated packaging should be emptied as far as possible. They can then be recycled after being thoroughly cleaned by a licensed contractor. Labels must not be removed from containers until they have been cleaned. Packaging materials that are not contaminated should be treated as household waste or as recycling material.

14 – TRANSPORT INFORMATION *LAND (Railway/Road, such as RID/ADR)

Class:	9	UN:	3082
Item No:	11 (c)	Transport Card:	90G01
Hazard No:	90	Packaging Group	III
PSN:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)		

SEA (IMDG)

Class:	9	UN:	3082
EMS No:		Marine Pollutant:	No
MFAG:		Packaging Group	III
IMDG Code Page:	9028		
PSN:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)		

AIR (IATA, ICAO)

Class:	9	UN:	3082
		Packaging Group	III
PSN:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)		

This product is subject to the Carriage of Dangerous Goods by Road and the Carriage of Dangerous Goods by Rail Regulations. The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations and their amendments (United Kingdom).

15 – REGULATORY INFORMATION *

Classification and Labelling according to EEC directives.

<u>Health</u>	<u>Physio-chemical</u>	<u>Environment</u>
Xi Irritant	Not classified	N – Dangerous for the environment.

CONTAINS Epoxy resin average molecular weight < 700

R 36/38	Irritating to skin and eyes.
R 43	May cause sensitisation by skin contact.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 24	Avoid contact with skin.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 28	After contact with skin, wash immediately with plenty of soap and water.
S 37/39	Wear suitable gloves and eye/face protection.
S 61	Avoid release to the environment. Refer to special instructions/MSDS.

SPECIAL LABEL Contains epoxy constituents. See information supplied by the manufacturer.

UK Legislation (as Amended):
 COSHH Essentials. Management of Health & Safety at Work Regulations 1992.
 Chemicals (Hazardous Information and Packaging) Regulations 1999.

16 – OTHER INFORMATION *Further Guidance

EH 40 Occupational exposure Limits (Revised annually).
HS (G)65 Successful Health and Safety Management, HSE
HS (G)97 A step by step Guide to COSHH Regulations, HSE
General Approved Code of Practice to COSHH regulations, HSE.

* Sections revised since previous version: 14, 15, 16

OTHER RISK PHRASES LISTED IN THIS MSDS:

R 20/22 Harmful by inhalation and if swallowed.

All information is based on results gained from experience and test and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing or construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to Our General Conditions of Sale.
