



# BluRez Epoxy III Compound

HIGH PENETRATION EPOXY RESIN

Bluey Technologies Pty Ltd  
ABN 36 115 613 646

PO Box 898, Hamilton  
QLD 4007 Australia  
Tel: + 61 7 3399 3635  
Fax: + 61 7 3899 9822

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** BLUEY TECHNOLOGIES  
**Address** Lot 8, 53 Metroplex Ave, Murarrie QLD 4172 Australia  
**Telephone** +61 7 3399 3635  
**Fax** +61 7 3899 9822  
**Emergency** +61 7 3399 3635  
**Email** bluey@bluey.com.au  
**Web Site** http://www.bluey.com.au  
**Synonym(s)** HIGH PENETRATION EPOXY • BLUREZ 111 • EPOXY 111  
**Use(s)** TWO COMPONENT LOW VISCOSITY EPOXY FOR HIGH PENETRATION CRACK SEALING  
**MSDS Date** 12th November 2012

## 2. HAZARDS IDENTIFICATION

**CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA**

### RISK PHRASES

R20/22 Harmful by inhalation and if swallowed.  
 R36/38 Irritating to eyes and skin.  
 R43 May cause sensitisation by skin contact.  
 R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

### SAFETY PHRASES

S2 Keep out of reach of children.  
 S24/25 Avoid contact with skin and eyes.  
 S28 After contact with skin, wash immediately with plenty of water.  
 S37/39 Wear suitable gloves and eye/face protection.

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

<b>UN No.</b>	None Allocated	<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>EPG</b>	None Allocated

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
EPOXY RESIN	(C15-H16-O2.C3-H5-Cl-O)x	25068-38-6	> 60%
ADDITIVES	Not Available	Not Available	remainder



Australia & Asia-Pacific  
bluey@bluey.com.au  
www.bluey.com.au



# BluRez Epoxy III Compound

HIGH PENETRATION EPOXY RESIN

## 4. FIRST AID MEASURES

<b>Eye</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the PIC or a doctor, or for at least 15 minutes.
<b>Inhalation</b>	Leave area of exposure immediately. If other than minor symptoms occur, seek immediate medical attention. If assisting a victim avoid becoming a casualty, wear a Type A (Organic vapour) respirator. If victim is not breathing apply artificial respiration.
<b>Skin</b>	Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.
<b>Ingestion</b>	DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>First Aid Facilities</b>	Eye wash facilities and safety shower should be available.

## 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	Non flammable. May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.
<b>Fire and Explosion</b>	Non flammable. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Extinguishing</b>	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
<b>Hazchem Code</b>	None Allocated.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spillage</b>	If spilt (bulk), contact emergency services where appropriate. Wear splash-proof goggles, nitrile/viton gloves, a Type A (Organic vapour) respirator (or Full-face Air-line respirator in confined areas), coveralls and rubber boots. Ventilate and clear area of all unprotected personnel. Absorb spill with sand or similar, collect and place in sealable containers for disposal.
-----------------	---

## 7. STORAGE AND HANDLING

<b>Storage</b>	Store in cool, dry, well ventilated area, removed from direct sunlight and out of the reach of children, oxidising agents, alkalis, acids and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Store as a Class C1 Combustible Liquid (AS1940).
<b>Handling</b>	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Stds</b>	No exposure standard(s) allocated.
<b>Biological Limits</b>	No biological limit allocated.
<b>Engineering Controls</b>	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended.
<b>PPE</b>	Wear splash-proof goggles, a Type A (Organic vapour) Respirator, nitrile or viton (R) gloves and coveralls. If sanding dry product, wear a Class P1 (Particulate) Respirator. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls and an Air-line respirator.





# BluRez Epoxy III Compound

HIGH PENETRATION EPOXY RESIN

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	CLEAR LIQUID	<b>Solubility (water)</b>	INSOLUBLE
<b>Odour</b>	SLIGHT ODOUR	<b>Specific Gravity</b>	1.1
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	NON FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	NOT AVAILABLE
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT RELEVANT
<b>Melting Point</b>	NOT AVAILABLE	<b>Lower Explosion Limit</b>	NOT RELEVANT
<b>Evaporation Rate</b>	NOT AVAILABLE	<b>Autoignition Temperature</b>	NOT AVAILABLE

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under recommended conditions of storage.

**Conditions to Avoid** Avoid heat, sparks, open flames and other ignition sources.

**Material to Avoid** Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. nitric acid) and alkalis (eg. hydroxides).

**Decomposition** May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

**Hazardous Reactions** Hazardous polymerization is not expected to occur.

## 11. TOXICOLOGICAL INFORMATION

**Health Hazard Summary** Irritant - low to moderate toxicity. Use safe work practices to avoid eye or skin contact and vapour inhalation during the curing process. Skin sensitisation may result from exposure. Skin sensitisation is by far the most common effect of epoxy resin exposure in industry. The cured resin is considered non toxic.

**Eye** Irritant. Exposure may result in lacrimation, irritation, pain and redness.

**Inhalation** Irritant. Over exposure to resin whilst curing may result in mucous membrane irritation of the nose and throat, coughing, possible sensitisation with asthma-like symptoms and pulmonary oedema at high levels.

**Skin** Irritant. Contact may result in irritation, skin rash and dermatitis. Sensitisation is also common with exposure to epoxy resins.

**Ingestion** Low toxicity. Ingestion may result in headache, nausea, vomiting, gastrointestinal irritation and diarrhoea.

**Toxicity Data** EPOXY RESIN (25068-38-6)  
 LD50 (Ingestion): 2 - 19 g/kg (rat)  
 LD50 (Skin): > 20 mL/kg (rabbit)

## 12. ECOLOGICAL INFORMATION

**Environment** Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** Mix parts A + B together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer for additional information. Prevent contamination of drains or waterways as environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.





# BluRez Epoxy III Compound

HIGH PENETRATION EPOXY RESIN

## 14. TRANSPORT INFORMATION

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

<b>Shipping Name</b>	None Allocated				
<b>UN No.</b>	None Allocated	<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>EPG</b>	None Allocated

## 15. REGULATORY INFORMATION

**Poison Schedule** Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

**Additional Information** This product is used in conjunction with BluRez EpiMax 111 (Hardener).

**WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT:** If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (eg. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

**EPOXY RESINS:** Epoxy resins may contain low concentrations of glycidyl ethers and or epichlorohydrin, which are potential sensitising agents, both skin and respiratory. Epichlorohydrin is classified as a probable human carcinogen (IARC 2A).

**EPOXY - PHENOXY RESINS AND POLYURETHANES:** Where spray painting with two or more component epoxy resins or polyurethane paints is undertaken, an employee shall wear a full face air-line respirator, full length chemically resistant coveralls and gloves. Further, if an individual is to enter an enclosed booth where a vapour or gas curing process is occurring, an air-line respirator is required. Once cured, these resins are considered non toxic.

**ABBREVIATIONS:**

- ADB - Air-Dry Basis.
- BEI - Biological Exposure Indice(s).
- CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
- CNS - Central Nervous System.
- IARC - International Agency for Research on Cancer.
- M - moles per litre, a unit of concentration.
- mg/m<sup>3</sup> - Milligrams per cubic metre.
- NOS - Not Otherwise Specified.
- pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
- ppm - Parts Per Million.
- TWA/ES - Time Weighted Average or Exposure Standard.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.





# BluRez Epoxy III Compound

HIGH PENETRATION EPOXY RESIN

**Report Status** This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

**Prepared By** Risk Management Technologies  
5 Ventnor Ave, West Perth  
Western Australia 6005  
Phone: +61 8 9322 1711  
Fax: +61 8 9322 1794  
Email: info@rmt.com.au  
Web: www.rmt.com.au

**MSDS Date:**12th November 2012

**End of Report**

