


MATERIAL SAFETY DATA SHEET According to EU Directive 93/112/EC		
EPOXY BONDING SEALER PART A & B		
Version: 2	Print date: 26.6.15	

1. Identification of Substance/Preparation and Company

Product Name	Epoxy Bonding Sealer part A
Company	Biokil Crown Ltd 7 Stadium Ind Park, Long Eaton Nottingham, NG10 2DD
Telephone	0115 946 0060
Fax	0115 946 9767
Emergency Telephone	07967 10 71 95

2. Composition / Information on ingredients

Composition/Information on Ingredients	Classification	
CAS Number and Chemical Name %		
Chemical Characteristic 7732-18-5 Water	35-69	None
Polyamino-amide	30-60	Xi:R41
Polyethyleneamines	1-5	C: Xn: R21/22, R34, R43
Description	Polyamine Emulsion	

3. Hazards identification

Irritating to skin (R38). Risk of serious damage to eyes (R41)> May cause sensitisation by skin contact (R43).
 Signs and Symptoms of Exposure (Possible Longer Term Effects)
 Repeated and/or prolonged contact with the skin may cause allergic reaction/sensitisation.
 Repeated and/or prolonged exposure may result in: adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as defatting, rash, irritation or corrosion), adverse respiratory effects (such as cough, tightness of chest or shortness of breath).

4. First aid measures

Signs and Symptoms of Exposure (Acute Effects)	
Eye Contact	Contact with eyes causes severe irritation and pain. Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice immediately.
Skin Contact	Contact with skin causes severe irritation and pain. Remove product and immediately flush affected area with water for at least 15 minutes.
Ingestion	If swallowed seek medical advice immediately. Induce vomiting or remove stomach contents by gastric suction only as directed by medical personnel.
Inhalation	Inhalation of vapours may cause irritation in the respiratory tract. In case of inhalation move patient at once to fresh air and seek medical advice.

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**5. Fire fighting measures**

Suitable extinguishing media

Extinguishing Media

Ignition will give rise to a Class B fire. In case of fire use: Water Spray, Carbon Dioxide (Co²) Dry Chemical Alcohol Foam.

Special Exposure Hazards (Fire Fighting)

May generate toxic, irritating or flammable combustion products. May generate carbon monoxide gas. May generate toxic nitrogen oxide gases.

Special Fire Fighting Procedures

Keep containers cool with water spray. Avoid skin contact. Wear complete body protective butyl rubber clothing. Use water spray to reduce vapours. Fire-fighters should wear butyl rubber boots, gloves and body suit and self contained breathing apparatus.

6. Accidental release measures

Prevent accidental spillage's to enter streams or drinking water supplies.

7. Handling and storage

Handling:

Avoid contact with eyes. Avoid breathing vapours.

Storage:

Keep away from oxidizers, heat or flames. Protect containers from physical damage and from freezing.

8. Exposure controls / personal protection

Personal Protection

a) Respiratory Protection

Under normal conditions – not required.

b) Hand Protection

Nitrile rubber gloves or any impermeable gloves must be worn

c) Eye Protection


Goggles or chemical safety glasses

d) Skin Protection

Protective long sleeved overalls must be worn

9. Physical and chemical properties

Appearance	Mobile viscous liquid
Colour	Red Brown
Odour	Ammoniacal
pH	Alkaline
Boiling Point	100C (212F)
Flash Point	Not determined
Flammability	Not Applicable
Autoflammability	>150C (>302F)
Explosive Limits	No data
Vapour Pressure	Not determined
Relative Density	1.047 @ 25C (77F)
Water Solubility	Completely
Partition	No data
Coefficient:nOctanol/Water	
Viscosity	40,000 – 60,000 cps @ 25C (77F)

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10. Stability and reactivity

Materials to avoid

Oxidising Agents (i.e. perchlorates, nitrates etc), Amines. A reaction accompanied by large heat release occurs when the product is mixed with acids.

Hazardous Decomposition Products

Carbon Monoxide in a fire. Carbon Dioxide in a fire. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures.

Hazardous Polymerisation

Will not occur.

11. Toxicological information

Oral LD50 (rate) >2000 mg/kg (estimate)

Dermal LD50 (rabbit) >5000 mg/kg (estimate)

Inhalation No data

Irritation Effects Data

Moderate irritant to the skin of a rabbit. Severe irritant to the eyes of a rabbit.

12. Ecological information

Information on this mixture is insufficient to classify.

13. Disposal considerations

Dispose of in accordance with local and national regulations. For example, in the UK regulations made under the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Wear protective clothing during disposal operations. If disposal is by a waste contractor, make sure that he has sufficient information and that waste containers are properly labelled.

14. Transport information

Adr/Rid Shipping Data	Not Regulated
Imo Shipping Data	Not Regulated
Icao/Iata Shipping Data	Not Regulated
Is the Product Classed as a Marine Pollutant	No

15. Regulatory information

EEC Symbol IRRITANT (Xi)

EEC Council Directive relating to the classification, packaging and labelling of dangerous substances and preparations Risk (R) and Safety (S) phrases.

Irritating to skin (R38). Risk of serious damage to eyes (R41). May cause sensitisation by skin contact (R43). In case of contact with eyes, rinse well with plenty of water and seek medical advice (S26). After contact with skin, wash immediately with plenty of soap and water (S28). Wear suitable protective clothing, gloves and eye/face protection (S36/37/39).

16. Other Information

This Safety Data Sheet has been written to comply with Directives 91/155/EEC (the "Safety Data Sheet Directive") and 88/379/EEC (the "General Preparations Directive").

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Product Name Epoxy Bonding Sealer Part B
 Company Biokil Crown Ltd
 7 Stadium Ind Park, Long Eaton
 Nottingham, NG10 2DD
 Telephone 0115 946 0060
 Fax 0115 946 9767
 Emergency Telephone 07967 10 71 95

2. Composition / Information on ingredients

Composition

Modified Liquid Bisphenol A/F-Epichlorohydrin Epoxide Resin

Information on Ingredients

The ingredients listed below have been associated with one or more of the listed immediate and/or delayed (*) health hazards. Risk of damage and effects depends upon duration and level of exposure.

BEFORE USING OR HANDLING, READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET

Cas/registry No.	Material Description	% Content
25068-38-6	*4,4 -ISOPROPYLINDENEDIPHENOL EPICHLOROHYDRIN COPOLYMER Physical Hazard. Non-classifiable Health hazard: Irritant (Xi) Irritating to eyes. (R36) Irritating to skin (R38) May cause sensitisation by skin contact (R43) OEL: None Established	35-50

3. Hazards identification

Physical Hazard: None classifiable
 Health Hazard Irritant
 Irritating to eyes and skin (R36/38)
 May cause sensitisation by skin contact (R43)

4. First aid measures

Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contact with entire surface of eyes and lids. Seek immediate medical attention.
Skin Contact	In case of contact, immediately flush with plenty of water, remove contaminated clothing. Seek medical attention..
Ingestion	If accidentally swallowed give large quantities of water or milk or dilute the effects on the stomach. Do not induce vomiting. Seek medical advice.
Inhalation	If inhalation causes adverse effects, remove to fresh air. If problem persists, seek medical advice.

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**5. Fire fighting measures**

Non-flammable at room temperature, but will burn. In case of fire, use water spray, dry chemical, foam or carbon dioxide extinguishers. Use water to keep fire-exposed containers cool. For large fires, fire fighters should wear full emergency protective equipment including self-contained breathing apparatus.

6. Accidental release measures

Always wear appropriate protective clothing. (refer to Section 8.2)

Large quantities: Contain and absorb with sand or sawdust and prevent from entering drains or watercourses: should this occur, the relevant Local Authority must be notified. Small quantities: Soak up with absorbent material and remove to a chemical disposal area.

7. Handling and storage

Handling: Handle in accordance with good industrial hygiene and safety practices. Refer to Section 8 for appropriate personal protection equipment. Wash thoroughly after handling.

Inhalation: Avoid prolonged or repeated breathing of vapour.

Skin contact: Avoid contact with skin or clothing.

Eyes: Avoid contact with eyes.

Storage: Keep in tightly sealed containers and store in a cool dry place avoiding exposure to heat, light, moisture and air.

8. Exposure controls / personal protection

Personal Protection

Where air contaminants can exceed acceptable criteria, use approved respiratory equipment. Use goggles if contact is likely. Wear impervious gloves as required to prevent skin contact.

9. Physical and chemical properties

Appearance	Pale Yellow liquid, slightly sweet odour
Boiling Point	>150°C
Flammability	Combustible
Auto-ignition temperature	>200°C
Explosive Limits	Not applicable
Oxidising Properties	Not applicable
Vapour Pressure	<0.1 mbar at 20°C
Relative Density	1.12g/cm ³ at 25°C
Water Solubility	Not miscible
Fat Solubility	Not determined
Partition Coefficient	Not determined
Viscosity	Not applicable

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**10. Stability and reactivity**

Normally consider stable and inert

Hazardous polymerisation

Will not occur

Materials to avoid

Mineral acids, bases, amines and mercaptans

Conditions to avoid

None known to Bio-Kil Chemicals Limited

Thermal decomposition

Products may include

Oxides of carbon

Other Hazards

None know to Bio-Kil Chemicals Limited

11. Toxicological information

Immediate Hazards

Ingestion

May be harmful if accidentally swallowed

Inhalation

Not expected to be harmful under normal conditions of use

Skin

Irritating to skin

Eyes

Irritating to eyes

Delayed Hazards

25068-38-6

*4.4-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN COPOLYMER

May cause sensitisation by skin contact

55492-52-9

*BISPHENOL F-EPICHLOROHYDRIN COPOLYMER

May cause sensitisation by skin contact

12. Ecological information

Mobility

Not determined

Degradability

Not determined

Bio-accumulative potential

Not determined

Aquatic toxicity Toxicity to bacteria, algae and higher marine organisms not tested. COD: Not determined

13. Disposal considerations

DO NOT reuse containers containing residual product without thorough cleaning. All waste should be disposed of using a Registered Waste Carrier operating under the Environmental Protection Act (Duty of Care) Regulations 1992 (S.I. No 2839)

14. Transport information

UK Supply Classification

(Xi) Irritant

15. Regulatory information

Label Information

UK Supply Classification

(Xi) Irritant

Irritating to eyes and skin (R36/38)

May cause sensitisation by skin contact (R43)

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)

Wear suitable protective clothing (S36)

16. Other Information

This Safety Data Sheet has been written to comply with Directives 91/155/EEC (the "Safety Data Sheet Directive") and 88/379/EEC (the "General Preparations Directive").