

MATERIAL SAFETY DATA SHEET



Product: EPOXY ADHESIVE (SYRINGE)

Code: BDAES/ 6

Date of Issue: October 2004

Version: 1

1. PREPARATION AND COMPANY IDENTIFICATION:

Preparation Trade Name: **BOND IT 5 MINUTE EPOXY ADHESIVE (RESIN)**

Supplier: Bond It

Address: Unit G16 River Bank Way, Lowfields Business Park, Elland, West Yorkshire. HD6 1PZ, ENGLAND.

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Emergency: As Above

2. COMPOSITION/ INFORMATION ON INGREDIENTS:

<u>CAS Number</u>	<u>Chemical Name</u>	<u>%</u>	<u>Classification</u>
2506-838-6	Bisphenol A Diglycidyl Ether Resin	60	Not established

3. HAZARD IDENTIFICATION:

Eye and skin irritant. Potential skin sensitiser. Avoid contact with eyes and prolonged or repeated skin contact. Wash hands thoroughly after handling. Do not ingest.

Primary Routes of Exposure: skin and eye contact, skin absorption and ingestion. Can cause moderate irritation.

Contact to eyes or skin at elevated temperatures can cause thermal burns which may result in permanent damage or blindness. Over exposure may cause itching, swelling or rashes on later exposure.

Inhalation: the low vapour pressure of the resin makes inhalation unlikely in normal use. In applications where vapours (caused by high temperatures) or mists (caused by mixing) are created, breathing may cause a mild burning sensation in the nose, throat and lungs.

Ingestion: Acute oral toxicity is low. May cause gastric distress.

4. FIRST AID MEASURES:

Inhalation: Remove person to fresh air. Administer oxygen if breathing is difficult. If discomfort persists seek medical advice.

Skin Contact: Remove contamination with proprietary skin cleaner, followed by washing with soap and water. This procedure should also be followed prior to eating, drinking, smoking and toilet functions.

Eye Contact: Irrigate immediately with clean water for 15 minutes holding the eyelids open and obtain medical attention.

Ingestion: If swallowed, seek medical advice immediately. Do not induce vomiting. Rinse mouth out with water, then sip water to remove taste from mouth. If possible show product information or label to medical advisor.

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media: Water, Carbon Dioxide (CO₂), Dry Chemical Foam, Alcohol Foam

Special Exposure Hazards in Fires: Heating above 300°F in the presence of air may cause slow oxidative decomposition and > 500°F may cause polymerisation.

Required Special Protective Equipment for Fire Fighters: Material will not burn unless preheated. Do not enter confined space without full bunker gear. Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water.

6. ACCIDENTAL RELEASE MEASURES:

Precautions: Stem the flow of spilled material. Avoid personal contact and eliminate ignition sources. Ventilate area. Spilt materials should be contained and absorbed with an inert absorbent material, such as sand or earth. Prevent spills from entering sewers and drains. Dispose of at an appropriate licensed waste disposal site in accordance with current laws and regulations.

7. HANDLING AND STORAGE:

Handling: Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after using and before drinking, eating and smoking. Ensure thorough ventilation. Discard contaminated clothing.

Storage: Should be stored in a cool, dry area away from high temperatures and flames. Keep containers tightly closed when not in use.

8. Exposure Controls:

Respiratory Protection: None required at normal handling temperatures & conditions. Use NIOSH approved organic vapour cartridges for uncured resin. Dust respirators recommended during grinding operations of cured resin as exposure levels dictate.

Skin Protection: Wear appropriate protective clothing and chemical resistant gloves.
Eye/Face Protection: Wear chemical resistant goggles if there is risk of splashing.
Ventilation: Local exhaust ventilation is preferred; good mechanical ventilation is usually adequate for most applications. Local exhaust is recommended for confined areas. Have emergency shower and eye wash available.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Specific Gravity:	1.17	Appearance:	Viscous liquid with little odour
pH:	neutral	Melting point range:	Not determined
Vapour Pressure:	0.03 mm Hg	VOC (g/L):	0
% Volatile By Volume:	0	% Solids By Weight:	100
Boiling point/ range:	>500 @ 171°F	Vapour Density (air=1):	>1
Evaporation Rate (BA=1):	<<1	Solubility (water):	Negligible

10. STABILITY AND REACTIVITY: Stable under normal conditions. Avoid open flames and extreme heat, strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (esp. primary and secondary aliphatic amines).
Hazardous decomposition products: Oxides of carbon; aldehydes, acids and other organic substances may be formed during combustion or elevated temperatures (>500°F) degradation. Heat is generated when resin is mixed with curing agents. Runaway cure reactions may char and decompose the resin, generating unidentified fumes and vapours which may be toxic.

11. TOXICOLOGICAL INFORMATION:

Acute oral effects and acute dermal effects: DGEbPA: Draize - 1.6 (rabbit). 11,400 mg/kg (DGEbPA Resin) > 20 ml/kg (DGEbPA Resin) LD50 (rat): LD50 (rabbit).
Acute inhalation effects and eye irritation: DGEbPA: Draize - 2 (rabbit), LC50 (rat): no deaths in saturated air (DGEbPA) in 8 hours.
Sub-chronic/ chronic effects: No data available. Prolonged or repeated skin contact may cause sensitisation, with itching, swelling or rashes on later exposure. Studies have shown that bisphenol A diglycidyl ether resin to cause allergic contact dermatitis. When heated to decomposition it emits fumes of Cl, carbon monoxide, other fumes and vapours varying in composition and toxicity.

12. ECOLOGICAL INFORMATION: The preparation has not been tested but, it is unlikely to bioaccumulate.

13. DISPOSAL CONSIDERATIONS: Disposal of material should be in accordance with local regulations. Packaging should be similarly disposed of.

14. TRANSPORT INFORMATION: Not classified as hazardous for transportation.

15. REGULATORY INFORMATION:

Label Information: Xi: Irritant **Contains Bisphenol A - Epoxy Resin**

R36/38	Irritating to skin and eyes.
R43	Can cause sensitivity to the skin by repeated/ exposed contact.
S2	Keep out of reach of children.
S28	After skin contact wash with soap and old water.
S37/38	Wear suitable protective clothing and gloves.
S46	If swallowed seek medical advice immediately and show this container label.

EEC Symbol

16. OTHER INFORMATION:

Safety data sheet available for professional user on request.

The data contained in this Safety Data Sheet has been supplied as required by the Chemical (Hazard Identification and Packaging) Regulations 1993, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information. This information is given in good faith, being based on the latest knowledge available to Bond It. No known relevant information has been omitted from this Material Safety Data Sheet and the information provided is designed to enable the user to use the product safely. The user should not assume on the basis of the information provided in this sheet that the product is suitable for any abnormal use. If the information provided is insufficient to ensure safety in any particular application, contact Bond It for further advice before the proposed application is undertaken.

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Supersedes Issue Dated: -

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