



E-BOND® 106-C2 EPOXY PROTECTIVE COATING
PART B – HARDENER

SAFETY DATA SHEET

Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: E-Bond 106-C2 Epoxy Protective Coating Hardener Part B

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use: Various

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: E-Bond Epoxies, Inc.
501 NE 33 Street
Fort Lauderdale, FL 33334

Telephone Number: Toll Free: 877-265-0011 **Office:** 954-566-6555 **Fax:** 954-566-6663

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: ChemTel: 800-255-3924
Int'l. : 813-248-3924

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL

Hazard class

Skin irritation 2
Serious eye irritation 2A
Skin sensitization 1

2.2 LABEL ELEMENTS Hazard Pictogram:



Signal Word: Flammable

Hazard Statement: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

Prevention: Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace.

Response: If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage: Not applicable.



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Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 ADDITIONAL INFORMATION Hazards not otherwise classified: Not applicable.

19.9 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Ingredient	CAS No	Percent
Polyaminoamide	68410-23-1	> 25.00%
Tetraethylenetetramine (TETA)	112-24-3	< 2.00 %
Xylene	1330-20-7	<6.00 %
Ethyl Benzene	100-41-4	<1.00 %
Normal Butanol	71-36-3	<15.00 %
Glycol Ether	2807-30-9	<5.00%
Tris (2, 4, 6 Dimethylaminomethyl) Phenol	90-72-2	<2.00%

Section 4: FIRST AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Skin: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. Contact with hot material can cause thermal burns.

Skin: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction. Contact with hot material can cause thermal burns.

Inhalation: May cause respiratory irritation.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.



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4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media: alcohol foam. In case of small fire use: carbon dioxide (CO₂), dry chemical, dry sand or limestone.

Unsuitable Extinguishing Media: Direct water spray.

5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection(SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment: Dike area to prevent spreading. Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Scoop up material and place in a disposal container.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling: Avoid contact with skin and eyes. Do not swallow. Avoid breathing dust/fume/gas/mist/vapors/spray. Handle and open container with care. When using do not eat or drink. (See section 8)

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Keep out of the reach of children. Keep containers closed when not in use. Do not store in an area equipped with emergency water sprinklers. (See section 10)



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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

Ingredient	Occupational Exposure Limits			
	TLV-TWA		OSHA-ACGH	
	ppm	mg/m ³	ppm	mg/m ³
Polyaminoamide	NE	NE	NE	NE
Tetraethylenetetramine (TETA)	NE	NE	NE	NE
Xylene	100	435	150	655
Ethyl Benzene	100	NE	100	NE
Normal Butanol	100	NE	100	NE
Glycol Ether	20	NE	60	NE
Tris (2, 4, 6 Dimethylaminomethyl) Phenol	NE	NE	NE	NE

NE - Not Established

8.2 EXPOSURE CONTROLS

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTIVE MEASURES

Personal Protective Equipment:

Eye/Face Protection: Safety glasses or goggles are recommended when using product.

Hand Protection: Butyl gloves.

Body Protection: Wear suitable protective clothing.

Respiratory Protection: Wear suitable respiratory equipment.

General Health and Safety Measures: Handle according to established industrial hygiene and safety practices. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Provide eye washes in workshops where the product is constantly handled.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Mobile Liquid
Color:	Amber
Odor:	Irritating
Odor Threshold:	Not available
Physical State:	Liquid
pH:	Not available.
Melting Point/Freezing Point:	Not available.
Initial Boiling Point and Boiling Range:	>108 C (> 212 °F)
Flash Point:	> 23.9 °C (> 75 °F)
Evaporation Rate:	<1
Flammability:	Flammable, Ignition will give rise to a Class III B fire
Lower Flammability/Explosive Limit:	1.0%
Upper Flammability/Explosive Limit:	6.0%



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Vapor Pressure:	< 10.34 MMGH
Vapor Density:	Not Available
Relative Density/Specific Gravity:	Not Available
Solubility:	Negligible.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition Temperature:	500°C (932°F)
Decomposition Temperature:	Not Available.
Viscosity:	Not Available.
Percent Volatile, wt. %:	60%
VOC content, wt. %:	60%

Section 10: STABILITY AND REACTIVITY

10.1 REACTIVITY No dangerous reaction known under conditions of normal use.

10.2 CHEMICAL STABILITY Stable under normal storage conditions.

10.3 CONDITIONS TO AVOID (if Unstable): Not Applicable

10.4 INCOMPATIBLE MATERIALS Mineral acids (i.e. sulfuric, phosphoric, etc.). Organic acids (i.e. acetic acid, citric acid etc.). Oxidizing Agents (i.e. perchlorates, nitrates etc.). Reactive metals (i.e. sodium, calcium, zinc etc.). Sodium or Calcium Hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds. A reaction accompanied by large heat release occurs when the product is mixed with acids.

10.5 HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials). Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm). Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. Aldehydes. The oxides of nitrogen gases (except nitrous oxide) emitted on decomposition are highly toxic.

Section 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin contact, skin absorption, eye contact, inhalation, and ingestion.

Symptoms related to physical/chemical/toxicological characteristics: Seek medical advice

Eye: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes.

Skin: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction. Remove contaminated clothing and shoes. Remove product and immediately flush affected area with water for at least 15 minutes.

Ingestion: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person

Inhalation: May cause respiratory irritation. Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Seek medical advice. Prevent aspiration of vomit. Turn victim's head to the side.



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Acute Toxicity:

Calculated overall Chemical Acute Toxicity Values		
LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
>5000 ppm/4 hr (estimate)	> 4300 mg/kg, rat (estimate)	>2000 mg/kg, rabbit (estimate)

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM

- EXPOSURE Skin Corrosion/Irritation:** Causes skin irritation.
- Serious Eye Damage/Irritation:** Causes serious eye irritation.
- Respiratory Sensitization:** May aggravate Asthma, Chronic Respiratory Disease
- Skin Sensitization:** May cause an allergic skin reaction.
- STOT-Single Exposure:** Based on available data, the classification criteria are not met.
- Carcinogenicity:** This product contains no listed carcinogens in concentrations of 0.1 percent or greater.
- Germ Cell Mutagenicity:** This product is not classified as a mutagen.
- Reproductive Toxicity:** This product does not contain known reproductive toxins.
- Developmental:** This product does not contain known developmental toxins.
- Fertility:** No known significant effects or critical hazards.
- STOT-Repeated Exposure:** Based on available data, the classification criteria are not met.
- Aspiration Hazard:** Based on available data, the classification criteria are not met.
- Toxicologically Synergistic Materials:** Not available.
- Other Information:** Not available.

Section 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic environment.

12.2 PERSISTENCE AND DEGRADABILITY

Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Not available.

12.4 MOBILITY IN SOIL

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available



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Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal Method: If this product becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility compliance with local and federal regulations.

Empty Container Disposal: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place. Dispose of empty containers in an appropriate disposal facility in

Section 14: TRANSPORT INFORMATION

14.1 UN NUMBER: 1263

14.2 UN PROPER SHIPPING NAME: Paint

14.3 TRANSPORT HAZARD CLASS(ES): Flammable Liquid Class 3

14.4 PACKING GROUP: III

14.5 ENVIRONMENTAL HAZARDS: Flammable Liquid

14.6 DOT NON-BULK SHIPPING NAME: UN 1263, Paint, Flammable, Liquid, Class 3, PG III
Limited Quantity ≤ 5 L

14.7 IMO ICAO/IATA SHIPPING DATA: UN 1263, Paint, Flammable, Liquid, Class 3, PG III
Schedule B# 3208100000

14.8 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not available

14.9 SPECIAL PRECAUTIONS FOR USER: Do not handle until all safety precautions have been read and understood.

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE CHEMICAL

SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

EPA SARA Title III Section 312 (40CFR370) hazard class

Immediate Health Hazard. Delayed Health Hazard. Fire Hazard.

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimis" level are

Polyaminoamide (No De minimis concentration)
Xylene (De minimis concentration: 1.0%)
Ethylbenzene (De minimis concentration: 1.0%)
Triethylenetetramine (No De minimis concentration)



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State Regulations

California Proposition 65:

This product may contain trace amounts of chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories

TOXIC SUBSTANCES CONTROL ACT (TSCA)- All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

TOXIC SUBSTANCE CONTROL ACT (TSCA) 12(b) COMPONENT(S) - None

NFPA - National Fire Protection Association:	
Health:	3
Fire:	3
Reactivity:	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

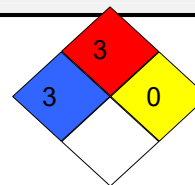
- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

HMIS Classification:

Health	3
Flammability	3
Reactivity	0

NFPA Classification:



HMIS and NFPA ratings are not required under 29 CFR 1910.1200 but are provided by E-Bond Epoxies, Inc. as a customer service.

Disclaimer: The information on this Safety Data Sheet represents our current data and best opinion as to the proper use and handling of the product identified and described on this document under normal conditions. They are given without warranty or guarantee of any kind. Any use of the product which is not in conformance With this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user. The user must read and follow instructions on this Safety Data Sheet, the Product Data Sheet and Product Labels prior to use of the product.

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