

SAFETY DATA SHEET



Date Issued : 4/8/2014
SDS No : 133627

Superbond Laminating Epoxy Curing Agent Fast 2050

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Superbond Laminating Epoxy Curing Agent Fast 2050
GENERAL USE: Liquid Amine Mixture for the Curing of Epoxy resins.
PRODUCT CODE: 133627

MANUFACTURER

Fiberglass Coatings Inc.
 4301A 34th Street North
 St. Petersburg, FL 33714
Emergency Phone: ChemTel(800)255-3924
Customer Service: 800-272-7890
E-Mail: www.fgci.com

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Corrosion, Category 1
 Skin Corrosion, Category 1
 Aspiration Hazard, Category 2
 Target Organ Toxicity (Single exposure), Category 3
 Acute Toxicity (Inhalation), Category 3

Environmental:

Aquatic Toxicity (Acute), Category 2
 Aquatic Toxicity (Chronic), Category 3

GHS LABEL



Corrosion



Health
hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.
 H305: May be harmful if swallowed and enters airways.
 H335: May cause respiratory irritation.
 H412: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)

Prevention:

P271: Use only outdoors or in a well-ventilated area.
 P260: Do not breathe dust/fume/gas/mist/vapors/spray.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P264: Wash thoroughly after handling.
 P273: Avoid release to the environment.

Response:

P310: Immediately call a POISON CENTER or doctor/physician.
 P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363: Wash contaminated clothing before reuse.
 P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P391: Collect spillage.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with all Federal, State, and local regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear, Colorless Syrup-like Liquid.

IMMEDIATE CONCERNS: **Corrosive.** Causes burns to skin and eyes. May be fatal if swallowed. May cause respiratory tract irritation.

POTENTIAL HEALTH EFFECTS

EYES: Corrosive, contact causes severe eye burns.

SKIN: Corrosive, causes skin burning.

INGESTION: May be harmful or fatal if swallowed. Liquid may enter the lungs when swallowed or vomited, possibly causing serious lung damage.

INHALATION: May be harmful if inhaled. Causes respiratory tract irritation.

MEDICAL CONDITIONS AGGRAVATED: Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

TARGET ORGAN STATEMENT: Contains material which causes damage to the following organs: kidneys, lungs, liver, central nervous system (CNS).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
TETA reaction products with Phenol / Formaldehyde	> 35	32610-77-8
Phenol	< 15	108-95-2
Triethylenetetramine (TETA)	< 15	112-24-3
Polyoxypropylenediamine	3 - 5	9046-10-0
Diethylenetriamine (DETA)	10 - 20	111-40-0
4,4'-isopropylidenediphenol	8 - 15	80-05-7

COMMENTS: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists seek immediate medical attention.

SKIN: Wash with soap and water. Remove and dispose of any contaminated clothing or shoes. Get medical attention if irritation develops or persists.

INGESTION: Aspiration hazard. If swallowed, Do NOT induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Rinse mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.

INHALATION: Move individual away from exposure and into fresh air. If breathing is stopped administer artificial respiration and immediately contact a physician. If breathing is difficult or irregular oxygen may be administered by trained medical personnel. If symptoms persist seek medical attention.

NOTES TO PHYSICIAN: No specific treatment, treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested or inhaled.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not categorized as Flammable by GHS standards. However, can still be ignited by external sources above flash point.

EXTINGUISHING MEDIA: Use an extinguishing media suitable to the surrounding fire.

FIRE FIGHTING PROCEDURES: Evacuate any non-essential personnel. Extinguish all ignition sources if safe to do so. Use water to cool exposed containers and structures until fire is out. Avoid spreading burning material with water used for cooling purposes.

FIRE FIGHTING EQUIPMENT: Full Bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus (SCBA).

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, Carbon monoxide, and Nitrous oxides (CO₂, CO, NO_x).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Extinguish all near by ignition sources. Stop leak if it can be done safely. Prevent from entering waterways and sewers. Absorb with non-combustible material and transfer into appropriate disposal container.

LARGE SPILL: Follow procedure for small spills. Dike ahead of spill to contain material. Notify proper authorities if the spill cannot be contained. Follow local, state, and federal regulations for disposal.

GENERAL PROCEDURES: Always ensure proper ventilation from any spill. Respirators or SCBA are required if permissible exposure limits are exceeded due to inadequate general ventilation. All spills should be contained as best as possible. All chemical spills should be assumed to be hazardous to the environment to ensure safety.

7. HANDLING AND STORAGE

HANDLING: Avoid ignition sources (flame, spark, smoking, etc.) in use or handling areas. Do not ingest or breathe vapors/fumes/dust. Avoid contact with eyes and skin. Always wear proper PPE when handling. Provide sufficient ventilation. Respirator may be required if insufficiently ventilated.

STORAGE: Store in a cool, dry, well-ventilated area, away from any sources of ignition and incompatible materials. Keep all equipment grounded to avoid static sparking. Keep container closed when not being used.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Phenol	TWA	5	19	5	19
Triethylenetetramine (TETA)	TWA	1	6		
Polyoxypropylenediamine	TWA	N/E [1]	[1]	N/E	
Diethylenetriamine (DETA)	TWA			1 Skin	4
4,4'-isopropylidenediphenol	TWA	N/E [1]	[1]		
Footnotes:					
1. N/E = Not Established					

ENGINEERING CONTROLS: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles and/or face shield. Always use proper eye protection around the work area.

SKIN: Wear impermeable gloves. Clothing should limit skin exposure. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product. Maintain eyewash and shower station near work area in case of exposure.

RESPIRATORY: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

WORK HYGIENIC PRACTICES: Never eat or drink in areas where the chemical is being used. Wash hands after handling to limit exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.

ODOR: Ammonia like odor.

ODOR THRESHOLD: No data available.

APPEARANCE: Colorless Liquid

pH: Alkaline

PERCENT VOLATILE: No data available.

FLASH POINT AND METHOD: 154 °C (310 °F) Closed Cup

FLAMMABLE LIMITS: No data available.

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE: < 1 mm Hg @ 20 C

VAPOR DENSITY: > 1 (Air =1)

BOILING POINT: > 222 °C (432 °F)

FREEZING POINT: No data available.

MELTING POINT: No data available.

POUR POINT: No data available.

SOLUBILITY IN WATER: Slightly soluble

EVAPORATION RATE: No data available.

DENSITY: No data available.

SPECIFIC GRAVITY: 0.97 (Water = 1)

VISCOSITY: No data available.

(VOC): %

Notes: No data available.

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

POLYMERIZATION: Under normal conditions of use, hazardous reactions will not occur.

CONDITIONS TO AVOID: Avoid contact with incompatible materials and ignition sources / heat.

INCOMPATIBLE MATERIALS: Avoid all unplanned contact with strong reactive chemicals, Acids, Bases, Aliphatic Amines, and Oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Phenol	410 to 650 mg / kg	630 mg / kg	900 mg/L (8h)
Triethylenetetramine (TETA)	2500 mg / kg (Rat)	550 mg/kg (Rabbit)	
Polyoxypropylenediamine	2855.3 mg / kg (Rat)	2979.7 mg / kg	> 0.74 mg/L (8h)
Diethylenetriamine (DETA)	1080 mg / kg (Rat)	1090 mg/kg (Rabbit)	> 0.07 to 0.3 mg/L (4h)
4,4'-isopropylidenediphenol	> 2000 mg / kg (Rat)	3000 mg/kg (Rabbit)	

EYE EFFECTS: Corrosive to the eyes.

SKIN EFFECTS: Corrosive to the skin.

CARCINOGENICITY

Notes: Not considered carcinogenic by OSHA, NTP, or IARC.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Not readily biodegradable. This product shows a low bioaccumulation potential.

ECOTOXICOLOGICAL INFORMATION: Do NOT discharge into sewers or waterways.

BIOACCUMULATION/ACCUMULATION: Low bioaccumulation potential.

AQUATIC TOXICITY (ACUTE): Values for Phenol (CAS# 108-95-2)

48-HOUR EC₅₀: 4-7 mg/L (Daphnia magna)

GENERAL COMMENTS: No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be in accordance with all Federal, State, and local regulations. Empty containers may still be considered dangerous due to residual vapors/liquid/dust.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive n.o.s.

TECHNICAL NAME: Diethylenetriamine (DETA)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 2735

PACKING GROUP: III

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive n.o.s.

UN NUMBER: 2735

HAZARD CLASS: 8

PACKING GROUP: III

AIR (ICAO/IATA)

SHIPPING NAME: Amines, Liquid, Corrosive n.o.s.

TECHNICAL NAME: Diethylenetriamine (DETA)

UN/NA NUMBER: 2735

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Amines, Liquid, Corrosive n.o.s.

TECHNICAL NAME: Diethylenetriamine (DETA)

UN/NA NUMBER: 2735

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Immediate (acute) Health Hazard, Chronic (Delayed) Health Hazard.

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: None

TITLE III NOTES: Components meeting the requirements are listed.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All items are TSCA listed

TSCA STATUS: TSCA 8b

CLEAN AIR ACT

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: This product does not contain nor is it manufactured with ozone depleting substances.

CALIFORNIA PROPOSITION 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Listed.

WHMIS CLASS: Class E Corrosive Material

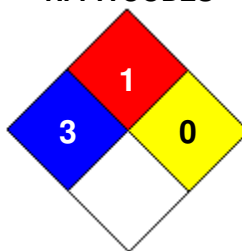
CANADIAN ENVIRONMENTAL PROTECTION ACT: All components are listed.

16. OTHER INFORMATION

PREPARED BY: BC

HMIS RATING

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

NFPA CODES

HMIS RATINGS NOTES: The customer is responsible for determining the PPE code for this material.

MANUFACTURER DISCLAIMER: This information is compiled from sources believed reliable as of the date of issue, it is provided in good faith and correct to the best of our knowledge. No warranty, guarantee, or representation is made as to the sufficiency of the information for the safe use of the product nor to relieve the end user of their own Federal, State, and Local regulatory compliance requirements.