SAFETY DATA SHEET

Safety Data Sheet

Date Prepared : 12/07/2016
SDS No : 125236
Date Revised : 11/04/2016
Revision No : 4

Non-Corrosive Epoxy Curing Agent 2:1

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Non-Corrosive Epoxy Curing Agent 2:1
GENERAL USE: Liquid Polyamide Type Epoxy Curing Agent
PRODUCT CODE: 125236

MANUFACTURER

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

24 HR. EMERGENCY TELEPHONE NUMBERS

Chem-Tel (800) 255-3924

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation/Corrosion, Category 2
Eye Irritation, Category 2
Skin Sensitization, Category 1
Acute Toxicity (Dermal), Category 4
Acute Toxicity (Inhalation), Category 4

GHS LABEL

Exclamation mark

Health hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H318: Causes serious eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H373: May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

PRECAUTIONARY STATEMENT(S)

Prevention:

P261: Avoid breathing fumes, dust, vapors, gases or spray.
P280: Wear eye protection.
P280: Wear protective gloves

Response:

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P352: If on skin; Wash with plenty of water.
P264: Wash skin thoroughly after handling.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362: Take off contaminated clothing.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
P273: Avoid release to the environment.

Storage:

P233+P235: Keep container tightly closed at a cool to ambient temperature.

Disposal:

P501: Dispose of contents/container to an approved waste disposal facility.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Amber to Red colored syrup

IMMEDIATE CONCERNS: Material will be irritating to both the eyes and skin, fumes may cause headache and nausea.

POTENTIAL HEALTH EFFECTS

INGESTION: Minimal risk from ingestion during normal industrial use. If ingested, seek medical attention.

INHALATION: May cause nose , throat, and lung irritation. Inhalation of vapors and or aerosols in high concentrations may cause irritation of the respiratory system.

SENSITIZATION: Repeated or prolonged contact causes sensitization, asthma and eczemas.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Polyamide Resin (Trade Secret)	26 - 53	XXXXXX
Benzyl Alcohol	> 15	100-51-6
Cycloaliphatic amine	8 - 27	N/A
Tertiary Amine (Trade Secret)	2 - 6	XXXXXX
TETA reaction prodcuts with Phenol / Formaldehyde	> 5	32610-77-8
Triethylenetetramine	~ 5	112-24-3
Phenol	~ 2	108-95-2

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. If irritation persists seek immediate medical attention. If medical care is not promptly available, continue to irrigate for one hour.

SKIN: Wash off skin with soap and water. 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: If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: Repeated and prolonged exposure to low concentrations of vapors and / or areosols, may cause Sore Throat, Eye disease and or Sensiization

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: May be combustible at high temperature.

GENERAL HAZARD: Downwind personnel must be evacuated.

EXTINGUISHING MEDIA: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Dry sand. Limestone powder.

HAZARDOUS COMBUSTION PRODUCTS: May form Ammonia gas, oxides of Carbon and Nitrogen, Noxious and Toxic fumes. Incomplete combustion may form carbon monoxide.

FIRE FIGHTING PROCEDURES: Adjust firefighting measures to suit the surrounding environment. Cool exposed tanks/containers with water sprays.

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).

FIRE EXPLOSION: Unlikely

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Take up small spills with absorbent material and properly dispose.

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local, State and Federal regulations.

GENERAL PROCEDURES: Always ensure proper ventilation from any spill. NIOSH respirators or SCBA are required if permissible exposure limits are exceeded due to inadequate general ventilation. Evacuate personnel to a safe area. Special attention should be given to low areas/pits where flammable vapors can accumulate.

COMMENTS: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use in well ventilated areas. Use proper personal protective equipment (PPE).

HANDLING: Keep containers tightly closed. Open and handle containers carefully.

STORAGE: Storage is best between 70 and 85 F, in the original container. Product may yellow upon long term storage and at elevated temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
	EXPOSURE LIMITS			
Chemical Name	**Type**		**ppm**	**mg/m³**
Benzyl Alcohol	**OSHA PEL**	**TWA**	10	44
Triethylenetetramine	**OSHA PEL**	**TWA**	1	6
Phenol	**OSHA PEL**	**TWA**	5	19
	ACGIH TLV	**TWA**	5	19

ENGINEERING CONTROLS: Provide ventilation or other engineering controls to keep the airborne concentrations of vapors or mists below the applicable workplace exposure limits (PEL/TLV). Any installed emergency eye wash station or safety showers should be located near the work area.

PERSONAL PROTECTIVE EQUIPMENT

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

SKIN: Butyl-rubber. Nitrile rubber. Neoprene gloves. Impervious gloves. PVC disposable gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.

RESPIRATORY: Vapor respirator may be required if exposure limits are exceeded. Use a NIOSH approved respirator or equivalent when required. Proper mechanical ventilation should be installed to ensure the exposure levels are below the allowable thresholds (PEL/TLV).

PROTECTIVE CLOTHING: Long sleeve shirts and trousers without cuffs. Impervious clothing.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.

ODOR: Ammonia like odor.

APPEARANCE: Amber to Red viscous syrup

pH: 10

PERCENT VOLATILE: No data available.

FLASH POINT AND METHOD: 117°C (243°F) Closed Cup

FLAMMABLE LIMITS: Not Applicable.

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE: ~ 3 mm Hg @ 20 C.

VAPOR DENSITY: No data available.

BOILING POINT: > 177°C (351°F)

FREEZING POINT: No data available.

MELTING POINT: No data available.

SOLUBILITY IN WATER: Slightly soluble.

EVAPORATION RATE: No data available.

DENSITY: 8.55 lb/ Gallon

SPECIFIC GRAVITY: 1.025 (Water = 1)

(VOC): No Listed VOC or HAP

10. STABILITY AND REACTIVITY

REACTIVITY: Stable under recommended storage conditions.

HAZARDOUS POLYMERIZATION: None Expected.

CONDITIONS TO AVOID: Avoid all unplanned contact with strong reactive chemicals including Acids, Bases, Oxidizers and Amines

POSSIBILITY OF HAZARDOUS REACTIONS: Large Masses mixed with Epoxy resins can polymerize hazardously and be quite exothermic generating enough heat to self boil and potentially catch fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitric acid. Ammonia Nitrogen oxides (NOx). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide. Carbon dioxide(CO2). Aldehydes. Flammable hydrocarbon fragments. Organic acid vapors. Nitrosamine.

INCOMPATIBLE MATERIALS: Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents. Oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD_{50} (rat)	DERMAL LD_{50} (rabbit)	INHALATION LC_{50} (rat)
Benzyl Alcohol	1230 mg / kg (Rat)	2000 mg / kg (Rabbit)	> 4.178 mg/L (4h) aerosol (Rat)
Tertiary Amine (Trade Secret)		1242 mg / kg (dermal Rabbit)	
Triethylenetetramine	2500 mg / kg (Rat)	550 mg / kg (Rabbit)	
Phenol	410 to 650 mg / kg (Rat)	630 mg / kg (Rabbit)	900 mg / L (Rat, 8h)

NOTES: No data is available on the product itself.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Environmental studies have not been performed for this mixture.

ECOTOXICOLOGICAL INFORMATION: Do NOT discharge into sewers or waterways. May be harmful to aquatic life and the environment.

BIOACCUMULATION/ACCUMULATION: Low bioaccumulation potential.

AQUATIC TOXICITY (ACUTE): Benzyl Alcohol
LC 50 (96 hr) Bluegill Sunfish 10 mg/l
LC 50 (96 hr) Fathead Minnow 460 mg/l
IC 50 (72 hr) Algae 700 mg/l
Phenol

EC 50 (48 hr) Daphnia 4-7 mg/l

Notes: The most toxic componets of the compound have been noted here, however other components of the compound have not been individualy evaluated.

COMMENTS: While the material has no known significant risks or critical hazards, good stewardship of the environment requires care to not release this material into the soil or water.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be in accordance with all Federal, State, and local regulations. Do not allow this product to enter drains, water courses, or the soil. Empty containers may still be considered dangerous due to residual vapors/liquid/dust.

FOR LARGE SPILLS: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or RCRA approved Waste Facility. Processing or contamination of this product may change the waste management options. State and Local disposal regulations may differ from Federal Disposal Regulations.

EMPTY CONTAINER: Empty containers may contain product residue. Follow warning labels even after container has been emptied.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Dangerous Goods

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Not Dangerous Goods

AIR (ICAO/IATA)

SHIPPING NAME: Not Dangerous Goods

VESSEL (IMO/IMDG)

SHIPPING NAME: Not Dangerous Goods

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 test data available. **PRESSURE GENERATING:** No test data available. **REACTIVITY:** No test data available. **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: Phenol

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Differential Scanning Calorimetry(DSC) Decomposition.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All items are TSCA listed.

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.

OSHA HAZARD COMM. RULE: Irritant. Sensitizer.

CANADA

DOMESTIC SUBSTANCE LIST (INVENTORY): All components are listed.

DATE EXEMPTION FILED: 01/28/2010

EXEMPTION REG. NO.: Trade Secret Registry Number 7346

16. OTHER INFORMATION

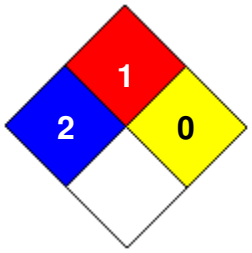
PREPARED BY: RD **Date Revised:** 11/04/2016

REVISION SUMMARY: This MSDS replaces the 11/30/2015 MSDS. Revised: **Section 14:** DOT (DEPARTMENT OF TRANSPORTATION) (PRIMARY HAZARD CLASS/DIVISION, UN/NA NUMBER, PACKING GROUP), ROAD AND RAIL (ADR/RID), ROAD AND RAIL (ADR/RID) (NOTE, UN NUMBER, PACKING GROUP).

HMIS RATING

HEALTH	*	2
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.