SAFETY DATA SHEET

Date Prepared : 04/15/2014
SDS No : 133664

Putty, Polyester, Light Weight Bonding FC8

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Putty, Polyester, Light Weight Bonding FC8
PRODUCT DESCRIPTION: Unsaturated Polyester based Putty.
PRODUCT CODE: 133664

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 2A
Acute Toxicity (Inhalation), Category 4
STOT SE, Category 3
STOT RE, Category 1

Physical:

Flammable Liquids, Category 3

GHS LABEL


Flame


Health hazard


Exclamation mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H226: Flammable liquid and vapour.
H318: Causes serious eye damage.
H315: Causes skin irritation.
H333: May be harmful if inhaled.

H351: Suspected of causing cancer.
H401: Toxic to aquatic life.

PRECAUTIONARY STATEMENT(S)

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof [electrical/ventilating/lighting] equipment.
P284: In case of inadequate ventilation, wear respiratory protection.
P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.

Response:

P305: If in eyes: Rinse cautiously with water for several minutes. Seek medical attention for prolonged irritation.
P337+P313: If eye irritation persists: Get medical advice/attention.
P304+P340: If inhaled; Remove person to fresh air and keep comfortable for breathing.
P342: If experiencing respiratory symptoms seek medical assistance.
P302+P352: If on skin; Wash with plenty of water.
P332+P313: If skin irritation occurs: Get medical advice/attention.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container to an approved waste disposal plant.
1048ZK1E: Dispose of product and container according to Federal, State and local regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Colored paste, styrene odor.

IMMEDIATE CONCERNS: Flammable liquid and vapor. Vapors may travel along the ground to an ignition source and flash fire. May cause respiratory tract, eye and skin irritation.

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation, and possibly permanent eye damage.

SKIN: May cause moderate to severe skin irritation. Prolonged exposure may cause skin burns.

INGESTION: May be harmful if swallowed. Do not induce vomiting, Liquid can directly enter the lungs (aspiration) when swallowed or vomited. Serious lung damage and possibly fatal chemical pneumonia (chemical pneumonitis) can develop if this occurs.

INHALATION: Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Vapors expected to be slightly irritating.

CARCINOGENICITY: IARC: Classified 2B (possible for humans)

COMMENTS: This product contains non-hazardous components which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Unsaturated Polyester Resin Proprietary	30 - 40	N/A
Styrene	18 - 28	100-42-5
Non Hazardous mineral fillers and additives	> 35	N/A

COMMENTS: The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "Proprietary", the specific chemical identity and percentage of compostion has been withheld as a trade secret.

4. FIRST AID MEASURES

EYES: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additonal minutes. If lasting effects occur, consult a physician, preferably an opthalmologist. A suitable emergency eye wash facility should be availble in work area.

SKIN: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

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 inhaled, remove to fresh air and keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate medical attention required.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes serious eye irritation.

SKIN: Contact causes skin irritation.

SKIN ABSORPTION: Causes skin irritation.

INGESTION: Irritating to mouth, throat and stomach

INHALATION: Harmful if inhaled. May cause respiratory irritation.

NOTES TO PHYSICIAN: Treat symptomatically, Contact poison treatment specialist immediatly if large quantities have been ingested or inhaled.

ADDITIONAL INFORMATION: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Flammable Class 3, per US 49 CFR 173.120

EXTINGUISHING MEDIA: Small Fire; Water spray or fog, Alcohol-resistant foam, Dry chemical powder, carbon dioxide, sand or earth can be used for small fires.

Large Fire; Water spray or fog, Alcohol-resistant foam, Dry chemical powder,Carbon dioxide. Do not discharge extinguishing waters into the aquatic environment.

HAZARDOUS COMBUSTION PRODUCTS: Produces carbon oxides (CO, CO2) and irritating or toxic vapors and gases.

OTHER CONSIDERATIONS: Causes skin irritation.

EXPLOSION HAZARDS: Cool any sealed drums to prevent pressure build up.

FIRE FIGHTING PROCEDURES: Promptly isolate the scene by removing all persons from the vicinity of the incident, if there is a fire no action should be taken involving any personal risk or without suitable training. Move additional containers from the area if

this can be done safely. Use water spray to keep fire exposed containers cool.

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).

SENSITIVE TO STATIC DISCHARGE: Some potential for static discharge ignition.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA fllter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal.Absorb with an inert material and put the spilled material in an appropriate waste disposal container.

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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 regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

HANDLING: Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid direct contact (eye, skin, inhalation, ingestion) when possible. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Take precautionary measures against static discharges. Wash clothing before reuse. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

STORAGE: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Use explosion-proof equipment.

STORAGE TEMPERATURE: Storage will be safe up to 100 F (38 C), but should be kept below 80 F (26 C) to maintain full product viability and shelf life.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
	EXPOSURE LIMITS			
Chemical Name	Type		ppm	mg/m³
Styrene	OSHA PEL	TWA	50	
		STEL	100	
	ACGIH TLV	TWA	20	85
		STEL	40	170

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. Always use proper eye protection around the work area.

SKIN: Wear solvent resistant gloves (consult safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker

health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910. 134.

PROTECTIVE CLOTHING: Use of protective coveralls and long sleeves is recommended. Use of impervious boots is recommended.

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Light Colored Paste

ODOR: Aromatic, characteristic solvent odor.

ODOR THRESHOLD: 0.1 ppm

pH: Not Applicable

PERCENT VOLATILE: < 30% (styrene)

FLASH POINT AND METHOD: 32°C (89°F) Setaflash Closed Cup

Notes: Flash point listed for Styrene (CAS: 100-42-5). Flash point for mixture is unknown.

FLAMMABLE LIMITS: .7 % to 6.1 %

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE: 5 mm Hg @ 20 C.

Notes: Styrene

VAPOR DENSITY: 3.6 (Air =1)

BOILING POINT: 145°C (293°F) to 146°C (295°F)

FREEZING POINT: Not Available.

MELTING POINT: Not Available.

POUR POINT: No data available.

THERMAL DECOMPOSITION: Not Available.

SOLUBILITY IN WATER: Insoluble.

EVAPORATION RATE: < 1

SPECIFIC GRAVITY: 0.96 to 1.3 (Water = 1)

(VOC): 16.000 to 30 %

10. STABILITY AND REACTIVITY

REACTIVITY: Yes

HAZARDOUS POLYMERIZATION: Under normal conditions of use, hazardous reactions will not occur. Extreme heat can cause rapid, uncontrolled polymerization.

STABILITY: Stable under recommended storage conditions.

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

POSSIBILITY OF HAZARDOUS REACTIONS: Large Masses mixed with Peroxide type catalysts can polymerize hazardously and

be quite exothermic becoming hot enough to self boil and potentially catch fire.

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

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD_{50} (rat)	DERMAL LD_{50} (rabbit)	INHALATION LC_{50} (rat)
Styrene	5000 mg / kg (Rat)	> 2000 mg / kg (dermal Rabbit)	11.8 mg/L (4h) Rat

RESPIRATORY OR SKIN SENSITISATION: Not Available.

GERM CELL MUTAGENICITY: Not Available.

CARCINOGENICITY

IARC: Group 2B - Possibly carcinogenic for humans.

NTP: Reasonably anticipated to be a human carcinogen

OSHA: Possible select carcinogen.

NOTES: Listed by IARC as possibly carcinogenic to humans (Group 2B), based on limited evidence of carcinogenicity in humans and experimental animals.

REPRODUCTIVE TOXICITY: Not Available.

STOT-SINGLE EXPOSURE: Cardiac sensitization. Nervous system. Nasal cavity. Lung. Eye. Skin.

STOT-REPEATED EXPOSURE: Causes damage to organs through prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Ultimately biodegradable

ECOTOXICOLOGICAL INFORMATION: Toxic to fish, invertebrates and microorganisms, however, substantial aquatic exposure is not expected based on the volatile nature of this material.

BIOACCUMULATION/ACCUMULATION: This material is not expected to bioaccumulate.

AQUATIC TOXICITY (ACUTE): Acute toxicity to fish. Toxicity to aquatic plants.

96-HOUR LC_{50}: 4.1 mg / L (Rainbow Trout)

48-HOUR EC_{50}: 4.7 mg/L (Daphnia Magna)

96-HOUR EC_{50}: 4.9 mg/L (Green Algae) 72 h

Notes: Values listed for Styrene (CAS# 100-42-5).

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

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: 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.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: UN1866, Resin Solution, Class 3, PG III

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 1000 lbs (STYRENE)

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Resin Solution

UN NUMBER: 1866

HAZARD CLASS: 3

PACKING GROUP: III

AIR (ICAO/IATA)

SHIPPING NAME: Resin Solution

UN/NA NUMBER: 1866

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Resin Solution

UN/NA NUMBER: 1866

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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

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

313 REPORTABLE INGREDIENTS: Styrene 100-42-5

TITLE III NOTES: Components meeting the requirements are listed.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Styrene 100-42-5

CERCLA RQ: 1000 pounds

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All Components listed.

CALIFORNIA PROPOSITION 65: This material contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

OSHA HAZARD COMM. RULE: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This product has been classified in accordance with the hazard criteria of Controlled Products Regulations (HPR) and the SDS contains all the information required by the HPR.

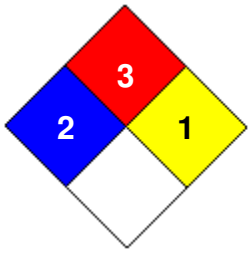
16. OTHER INFORMATION

PREPARED BY: BC **Date Prepared:** 04/15/2014

HMIS RATING

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		1
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.