

SAFETY DATA SHEET



Date Issued : 4/7/2014
SDS No : 135367

Superbond Epoxy Resin

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Superbond Epoxy Resin
GENERAL USE: Adhesive
PRODUCT CODE: 135367

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:

Eye Irritation, Category 2
Skin Irritation, Category 2
Skin Sensitization, Category 1
Acute Toxicity (Dermal), Category 5
Acute Toxicity (Oral), Category 5

Environmental:

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

GHS LABEL



Exclamation
mark Environment

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H320: Causes eye irritation.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H303: May be harmful if swallowed.
H411: Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)**Prevention:**

P280: Wear protective gloves, protective clothing, eye protection and face protection.
 P261: Avoid breathing fumes, dust, vapors, gases, or spray.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P264: Wash skin thoroughly after handling.
 P273: Avoid release to the environment.

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.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P333+P313: If skin irritation or rash occurs: Seek medical attention.
 P362: Take off contaminated clothing and wash before reuse.
 P312: Call a POISON CENTER or physician if you feel unwell.
 P321: Specific treatment (see Section 4: First Aid).
 P391: Collect spillage.

Disposal:

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

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White Paste.

IMMEDIATE CONCERNS: Skin, eye and possible throat irritation. Can cause skin sensitization.

POTENTIAL HEALTH EFFECTS

EYES: Can cause eye irritation. Symptoms include: stinging, tearing, redness, and swelling of the eyes.

SKIN: Can cause skin irritation. Prolonged or repeated contact may cause sensitization. Symptoms include redness, burning, and drying and cracking of skin, burns and other skin damage.

INGESTION: Minimal risk from ingestion during normal industrial use.

INHALATION: May cause allergic reaction.

ROUTES OF ENTRY: Inhalation, ingestion, skin and eye contact.

CANCER STATEMENT: Not classified as a carcinogen by the International Agency for Research of Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

SENSITIZATION: Repeated contact with this material can cause sensitization.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Bisphenol A/epichlorohydrin Resin	> 50	25068-38-6
Proprietary Epoxy Resin	< 30	XXXXXX
Oxirane, Mono[(c12-14-alkyloxy)methyl] Derivs.	< 10	68609-97-2
Non Hazardous Fillers	< 10	XXXXXX

COMMENTS: An alternative CAS number for Bisphenol A is 25085-99-8.

4. FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do so. Seek immediate medical attention.

SKIN: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

INGESTION: Ingestion of this product is unlikely. Do NOT INDUCE VOMITING. Obtain medical attention. If necessary, remove stomach contents by gastric suction or vomiting, avoid aspiration of vomit.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

NOTES TO PHYSICIAN: If skin sensitization has developed and a causal relationship has been confirmed, further exposure should not be allowed.

ANTIDOTES: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: May be combustible at high temperature

GENERAL HAZARD: Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen.

EXTINGUISHING MEDIA: Use dry chemical, CO₂, water spray/fog (not jet), or foam

HAZARDOUS COMBUSTION PRODUCTS: Carbon Oxides, Phenolics.

OTHER CONSIDERATIONS: The product is not in the flammable range, but will burn. Carbon monoxide possible where incomplete combustion occurs.

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).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Extinguish all nearby 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: Use a shovel to put the material in to a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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 prolonged or repeated contact with skin. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Electric band heaters can be used to warm material but should not be left unattended. Warming to a maximum of 160F is recommended.

STORAGE: Store container in a cool, well-ventilated approved area. Keep container away from sparks and other ignition sources. Keep container tightly closed until ready to use.

STORAGE TEMPERATURE: 2°C (35°F) Minimum to 43°C (109°F) Maximum

Notes: Material may crystallize during prolonged storage. Material can be warmed up to (160F) to dissolve crystals and used as recommended.

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
Bisphenol A/epichlorohydrin Resin	TWA	N/E [1]	[1]	N/E	
Oxirane, Mono[(c12-14-alkyloxy)methyl] Derivs.	TWA	N/E [1]	[1]	N/E	
Footnotes:					
1. N/E = Not Established					

ENGINEERING CONTROLS: Provide ventilation or other engineering controls to keep the airborne concentrations of vapor 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: 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: Not normally required. In the event of an inhalation risk, use with local exhaust ventilation. If this is not practicable wear a half mask respirator Vapor respirator may be required if exposure limits are exceeded.

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: Paste.

ODOR: Slight Odor.

APPEARANCE: White Paste.

pH: No data available.

PERCENT VOLATILE: No data available.

FLASH POINT AND METHOD: > 200°C (390°F) Closed Cup

FLAMMABLE LIMITS: No data available.

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE: < 1 mm Hg

VAPOR DENSITY: > 1

BOILING POINT: No data available.

FREEZING POINT: No data available.

MELTING POINT: No data available.

SOLUBILITY IN WATER: No data available.

EVAPORATION RATE: No data available.

SPECIFIC GRAVITY: 1.16 (Water = 1)

VISCOSITY: No data available.

(VOC): No data available.

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: This product is stable under normal conditions of storage and use.

POLYMERIZATION: Will not occur.

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

POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur by itself. Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

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)
Bisphenol A/epichlorohydrin Resin	> 5000 mg / kg (Rat)	> 20000 mg / kg (Rabbit)
Oxirane, Mono[(c12-14-alkyloxy)methyl] Derivs.	17100 mg / kg (Rat)	> 4000 mg / kg (Rabbit)

EYE EFFECTS: Eye irritant

SKIN EFFECTS: Skin Irritant, Sensitizer.

CARCINOGENICITY

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

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Moderately toxic to fish, not biodegradable, potential to bioaccumulate.

ECOTOXICOLOGICAL INFORMATION: DO NOT discharge into sewer or waterways.

BIOACCUMULATION/ACCUMULATION: Not readily biodegradable. Moderate potential to bioaccumulate (log Pow in the range 3-5).

AQUATIC TOXICITY (ACUTE): Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

96-HOUR LC₅₀: 2 mg/L (Trout)

48-HOUR EC₅₀: 1.8 mg/L (Daphnia Magna)

96-HOUR EC₅₀: 11 mg/L (Algae)

Notes: Material is a Marine Pollutant.

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: Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-EPICHLOROHYDRIN RESIN)

PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: UN3082

PACKING GROUP: III

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Not Regulated by DOT

AIR (ICAO/IATA)

SHIPPING NAME: Environmentally hazardous substances, solid, n.o.s.

TECHNICAL NAME: Epoxy Resin

UN/NA NUMBER: 3077

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Environmentally hazardous substances, solid, n.o.s.

TECHNICAL NAME: Epoxy Resin

UN/NA NUMBER: 3077

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

EmS: F-A,S-F

MARINE POLLUTANT #1: Listed.

COMMENTS: Marine Pollutant; Epichlorohydrin

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Immediate (Acute) health hazard.

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

313 REPORTABLE INGREDIENTS: None required.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None required

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None required.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All Components listed.

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm. Epichlorohydrin 106-89-8

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): Class D-2B: Toxic material causing other toxic effects.

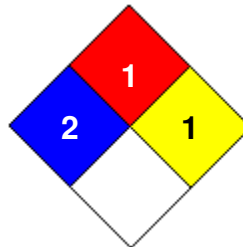
16. OTHER INFORMATION

PREPARED BY: Fiberglass Coatings, Inc. (GS)

HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

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.

SAFETY DATA SHEET



Date Issued : 4/7/2014
SDS No : 135367B

Superbond Epoxy Fast Curing Agent

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Superbond Epoxy Fast Curing Agent
GENERAL USE: Adhesive
PRODUCT CODE: 135367B

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

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Corrosion, Category 1
Eye Corrosion, Category 1
Respiratory Tract Irritation, Category 1
Skin Sensitization, Category 1

Environmental:

Aquatic Toxicity (Acute), Category 1
Aquatic Toxicity (Chronic), Category 4

GHS LABEL



Corrosion



Health
hazard



Environment

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.
H305: May be harmful if swallowed and enters airways.
H317: May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)

Prevention:

P260: Do not breathe fumes.
 P280: Wear protective gloves, protective clothing, eye protection and face protection.
 P264: Wash skin thoroughly after handling.
 P273: Avoid release to the environment.

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.
 P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
 P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P310: Immediately call a POISON CENTER or physician.
 P363: Wash contaminated clothing before reuse.
 P391: Collect spillage.

Storage:

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

Disposal:

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

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Amber paste.

IMMEDIATE CONCERNS: Causes eye and skin damage. Causes respiratory tract irritation. May be harmful if swallowed. May cause target organ damage based on animal data.

POTENTIAL HEALTH EFFECTS

EYES: Corrosive, contact causes severe eye burns.

SKIN: Corrosive, causes skin burning.

INGESTION: Harmful if swallowed. May cause burns to mouth and esophagus.

INHALATION: Inhalation may cause respiratory tract irritation. Aspiration can cause significant lung damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Nonylphenol	30 - 55	84852-15-3
Non Hazardous Mineral Fillers	> 7	N/A
Polyamide Resin (Trade Secret)	6 - 12	N/A
Benzyl Alcohol	3 - 8	100-51-6
Mixed Cycloaliphatic Amines	2 - 6	N/A
DETA	9 - 13	111-40-0
4,4'-isopropylidenediphenol	5 - 10	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: Flush eyes for at least 15 minutes, holding eyelids open. Do not use eye ointment. If easily accomplished, check for and remove contact lenses. If contact lenses cannot be removed, seek immediate medical attention.

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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

NOTES TO PHYSICIAN: Treat symptomatically. May require supportive therapy as needed. Severe exposure should be followed by at least 48 hour monitoring.

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 dry chemical, CO₂, water spray/fog (not jet), or foam

HAZARDOUS COMBUSTION PRODUCTS: Produces carbon oxides (CO, CO₂).

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).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Extinguish all nearby 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: Use a shovel to put the material in to a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. HANDLING AND STORAGE

HANDLING: Avoid ignition sources (flame, spark, smoking, etc) in use or handling areas. Use explosion proof electrical equipment. Ground all equipment containing this material. Do not ingest or breathe vapors/fumes. Avoid contact with eyes and skin. Always wear proper PPE when handling. Provide sufficient ventilation. A NIOSH respirator is required if permissible exposure limits are exceeded.

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.

SPECIAL SENSITIVITY: Avoid storage in direct sunlight.

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
Nonylphenol	TWA	N/E [1]	[1]	N/E	
Non Hazardous Mineral Fillers	TWA		6	[2]	10 [2]
Benzyl Alcohol	TWA	10	44		
DETA	TWA			1 Skin	4
4,4'-isopropylidenediphenol	TWA	N/E [1]	[1]		
Footnotes:					
1. N/E = Not Established					
2. Inhalable					

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below any exposure 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: No respiratory protection is usually required under normal conditions of use.

PROTECTIVE CLOTHING: Clothing should be applicable for the job at hand to protect the skin from repeated exposure to the material.

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: Paste.

ODOR: Ammonia like odor.

APPEARANCE: Amber paste.

pH: Suspected.

Notes: Alkaline

PERCENT VOLATILE: No data available.

FLASH POINT AND METHOD: 101°C (213°F) Closed Cup

FLAMMABLE LIMITS: Not yet Determined

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE: 3 mm Hg @ 20 C

VAPOR DENSITY: < 1 (Air =1)

BOILING POINT: > 392°C (200°F)

FREEZING POINT: No data available.

MELTING POINT: No data available.

SOLUBILITY IN WATER: Slightly soluble

EVAPORATION RATE: Not Available

DENSITY: 0.93 at 20°C

SPECIFIC GRAVITY: 1.02 (Water = 1)

VISCOSITY: No data available.

(VOC): No data available.

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

POLYMERIZATION: Will not occur.

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

HAZARDOUS DECOMPOSITION PRODUCTS: May form: carbon dioxide and carbon monoxide, various hydrocarbons.

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)
Nonylphenol	1412 mg / kg (oral Rat)	2031 mg / kg (dermal Rabbit)	
Non Hazardous Mineral Fillers	> 5000 mg / kg (Rat)	> 5000 mg / kg (dermal Rabbit)	2.08 mg/L (4h)
Benzyl Alcohol	1230 mg / kg (Rat)	2000 mg / kg (Rabbit)	> 4.178 mg/L (4h) aerosol (Rat)
Mixed Cycloaliphatic Amines		> 1000 mg / kg	
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.

TARGET ORGANS: May cause damage to the following organs: kidneys.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Considered very toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment. Not readily biodegradable. Shows high bioaccumulation potential. Water polluting material. May be harmful to the environment if released in large quantities.

BIOACCUMULATION/ACCUMULATION: Bioaccumulation: high potential, not readily biodegradable
Bioconcentration factor (BCF): 740, LogPow: 5.4

AQUATIC TOXICITY (ACUTE):

Exposure :: Species :: Result

3H Static :: Bacteria :: 950 mg/L (EC50)

96 Flow-Thru :: Daphnia :: 0.596 mg/L (EC50)

48H :: Daphnia :: 0.14 mg/L (EC50)

48H Static :: Daphnia :: 0.085 mg/L (EC50)

96H Flow-Thru :: Daphnia :: 0.0207 mg/L (EC50)

72H Static :: Algae :: 1.3 mg/L (EC50)

96H Static :: Algae :: 0.41 mg/L (EC50)

Notes: Values listed for Nonylphenol (CAS# 84852-15-3)

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: Nonylphenol

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 2735

PACKING GROUP: III

MARINE POLLUTANT #1: Nonylphenol

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: Nonylphenol

UN/NA NUMBER: 3145

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

VESSEL (IMO/IMDG)

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

TECHNICAL NAME: Nonylphenol

UN/NA NUMBER: 2735

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

MARINE POLLUTANT #1: Listed.

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

TITLE III NOTES: Components meeting the requirements are listed.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Not Listed.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Not Listed.

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: 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): Listed.

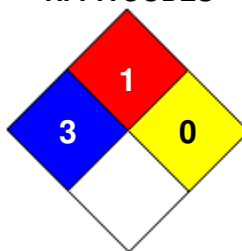
WHMIS CLASS: Class D-2B: Material causing other toxic effects (Toxic).
Class E: Corrosive material

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.

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