

SAFETY DATA SHEET



Date Issued : 08/14/2019
SDS No : TT Resin Products FGCI kits

Crystal Clear Table Top Epoxy Resin

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Crystal Clear Table Top Epoxy Resin
GENERAL USE: Epoxy resin side of a 2 component product.
PRODUCT DESCRIPTION: Epoxy Resin
PRODUCT CODE: 125536A, 125535A, 125534A, 125533A, 125341A, 125340A, 125399A, 125398A

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
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2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2
 Eye Irritation, Category 2A
 Skin Sensitization, Category 1

Environmental:

Chronic Aquatic Toxicity, Category 2

GHS LABEL



Exclamation
mark



Environment

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H319: Causes serious eye irritation.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H302: Harmful if swallowed.
 H335: May cause respiratory irritation.
 H411: Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P285: In case of inadequate ventilation wear respiratory protection.
 P273: Avoid release to the environment.
 P264: Wash thoroughly after handling.

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+P350: IF ON SKIN: Gently wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362: Take off contaminated clothing.

P341: If inhaled: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call for medical assistance.

Storage:

P403: Store in a well-ventilated place.

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

Disposal:

P501: Dispose of contents/container to a RCRA approved Treatment Storage Disposal Facility.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Diglycidylether of Bisphenol A (DGEBA)	< 100	1675-54-3
Non Hazardous additives	< 1	N/A

COMMENTS: This above item described as Diglycidylether of Bisphenol A (DGEBA) is a Bisphenol A -Epichlorohydrin based Epoxy resin known by several different Chemical names and CAS numbers which may include CAS 25068-38-6, and CAS 25085-99-8.

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 additional minutes. If lasting effects occur, consult a physician, preferably an ophthalmologist. A suitable emergency eyewash facility should be available in work area.

SKIN: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

INGESTION: Rinse mouth with water. Do not induce vomiting, seek medical attention if feeling unwell.

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

NOTES TO PHYSICIAN: No specific treatment, treat symptomatically. Call medical doctor or a 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.

EXTINGUISHING MEDIA: Water fog or fine spray. Dry Chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be effective. Water fog, applied gently may be used as a blanket for the extinguishments. DO NOT use direct water stream. May spread fire.

EXPLOSION HAZARDS: Closed containers may rupture or explode when heated.

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).

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products may include but are not limited to Phenolics, Carbon Dioxide, and Carbon Monoxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in approved container for disposal according to Local, State and Federal regulations.

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, and waterways. After donning Personal Protective Equipment take up spillage with appropriate mechanical means and contain, also collect spillage with absorbent materials such as rags, sand, earth, or vermiculite and place in container for disposal according to all Federal, State, and local regulations

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

LAND SPILL: Prevent material from being absorbed into the soil, treat contaminated soil as hazardous waste.

GENERAL PROCEDURES: Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment of product, cleaning solvents, rags or other materials used to absorb the spill, to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

SPECIAL PROTECTIVE EQUIPMENT: See Section 8 personal protection. Persons not wearing proper personal protection should be excluded from the spill area until clean-up is completed.

COMMENTS: 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

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with skin, eyes and clothing.

HANDLING: Use proper protective equipment to prevent eye or skin contamination, use eye protection, gloves, and adequate clothing, and do not use around food or drink to avoid possible ingestion of the material. Avoid breathing mist or vapors and use only with adequate ventilation. Keep the material tightly closed in original container.

STORAGE: Storage is best in the original containers at temperatures between 70 to 85 F (20 to 30 C).

Product may crystallize upon extended storage but can be returned to usable condition upon warming back to a liquid state.

COMMENTS: Personal Protective Equipment for eye and skin exposure is required, see Section 8; for specific recommendations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide ventilation or other engineering controls to keep the airborne concentrations of vapors or mists below any 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 eye wash and shower station near work area in case of exposure.

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).

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

OTHER USE PRECAUTIONS: Use protective clothing chemically resistance to this material. Selection of specific items such as face shields, boots, aprons, or fully body suit will depend on the task.

COMMENTS: This material is typically used with an Amine type curing agent which may significantly alter the precautions necessary for its safe usage. If 2 or more components are combined for use, than all the associated Safety Data Sheets involved must be read and understood.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Viscous liquid.

ODOR: Odorless to mild.

ODOR THRESHOLD: No test data available.

COLOR: Clear yellow to light blue.

pH: 6 to 8

FLASH POINT AND METHOD: 251°C (484°F) to 51°C (5°F) Pensky Martin Closed Cup ASTM D 93

FLAMMABLE LIMITS: Not Available.

AUTOIGNITION TEMPERATURE: Not Applicable.

VAPOR PRESSURE: 0.03 mbar at 77°C (170°F)

VAPOR DENSITY: Not Available.

BOILING POINT: > 200°C (392°F)

FREEZING POINT: Not Applicable.

MELTING POINT: Not Applicable.

SOLUBILITY IN WATER: Negligible.

EVAPORATION RATE: No data available.

DENSITY: 9.68 pounds/ gallon

SPECIFIC GRAVITY: 1.17 (Water = 1) at 20°C (68°F)

VISCOSITY #1: 11000 to 14000 mPa*s at 25°C (77°F) Dynamic

10. STABILITY AND REACTIVITY

REACTIVITY: Stable under recommended storage conditions.

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

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

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

POSSIBILITY OF HAZARDOUS REACTIONS: 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.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: > 20000 mg/kg (Rat)

Notes: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

ORAL LD₅₀: > 2000 mg/Kg (Rat)

Notes: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

INHALATION LC₅₀: No data available.

Notes: Acute Inhalation Toxicity - At room temperature, exposure to vapors is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation. The LC50 has not been determined.

SKIN CORROSION/IRRITATION: Prolonged / repeated skin contact may cause skin irritation with local redness.

SERIOUS EYE DAMAGE/IRRITATION: May cause eye irritation. Corneal injury is unlikely. Vapour may cause eye irritation experienced as mild discomfort and redness.

RESPIRATORY OR SKIN SENSITIZATION: Dermal sensitization to this product or the chemical components of it have been seen in some humans. The results of a test on guinea pigs showed this substance to be a weak skin sensitizer. Sensitization has occurred in laboratory animals after repeated exposures.

CARCINOGENICITY

NOTES: Not considered carcinogenic by OSHA, NTP, IARC, or ACGIH

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Moderately Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Not readily biodegradable. This product shows a moderate bioaccumulation potential. Water polluting material. May be harmful to the environment if released in large quantities.

ECOTOXICOLOGICAL INFORMATION: Do NOT discharge into sewers or waterways.

BIOACCUMULATION/ACCUMULATION: Not readily biodegradable. Moderate potential to bioaccumulate (LogPow in the range 2.6 to 3.8).

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).

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.

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.

PRODUCT DISPOSAL: Incinerate or dispose of in a permitted disposal facility. Do not discharge substance/product into sewer system.

EMPTY CONTAINER: Empty containers must be disposed of in accordance with all Federal, State, and local requirements.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated by DOT

TECHNICAL NAME: Epoxy Resin

AIR (ICAO/IATA)

SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

TECHNICAL NAME: Epoxy Resin

UN/NA NUMBER: 3082

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

TECHNICAL NAME: Epoxy Resin

UN/NA NUMBER: 3082

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

MARINE POLLUTANT #1: Epoxy Resin

COMMENTS: This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HEALTH HAZARDS: Acute Health Hazard

313 REPORTABLE INGREDIENTS: The material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None required


TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: Listed on the United States TSCA inventory.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119--PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:

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

CALIFORNIA PROPOSITION 65:  **WARNING:** This product can expose you to chemicals including (Bisphenol A CAS 80-05-7, and Epichlorohydrin CAS 106-89-8), which are known to the State of California to cause cancer and/or birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Class D-2B: Toxic material causing other toxic effects.

CANADIAN ENVIRONMENTAL PROTECTION ACT: Not Required

DOMESTIC SUBSTANCE LIST (INVENTORY): Listed.

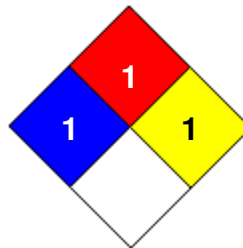
16. OTHER INFORMATION

PREPARED BY: RD **Date Prepared:** 08/14/2019

HMIS RATING

HEALTH	*	1
FLAMMABILITY		1
PHYSICAL HAZARD		1
PERSONAL PROTECTION		

NFPA CODES



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 : 08/14/2019
SDS No : TT Activator Product FGCI kits

Crystal Clear Table Top Epoxy Activator

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Crystal Clear Table Top Epoxy Activator
GENERAL USE: Amine Activator side of a 2 component epoxy product
PRODUCT CODE: 125536B, 125535B, 125534B, 125533B, 125341B, 125340B, 125399B, 125398B

MANUFACTURER

Fiberglass Coatings Inc.
 4301A 34th Street North
 St. Petersburg, FL 33714
Customer Service: (800) 272-7890
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2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 4
 Skin Corrosion, Category 1B
 Skin Irritation, Category 1
 Serious Eye Damage, Category 1
 Reproductive Toxicity, Category 2

Environmental:

Acute Hazards to the Aquatic Environment, Category 1
 Chronic Hazards to the Aquatic Environment, Category 1

GHS LABEL



Exclamation
mark



Corrosion



Health hazard



Environment

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H373: May cause damage to organs (Central Nervous System).
 H341: Suspected of causing genetic damage and reproductive toxicity.
 H361: Suspected of damaging fertility or the unborn child.
 H410: Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P270: Do not eat, drink or smoke when using this product.
 P264: Wash 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/attention.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/ Doctor/ or Physician.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P391: Collect spillage.
 P363: Wash contaminated clothing before reuse.
 P312: Call a POISON CENTER or Doctor if you feel unwell.

Storage:

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

Disposal:

P501: Dispose of contents/container to a RCRA approved Treatment Storage Disposal Facility.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Transparent clear to yellow liquid, with an Ammonia like odor.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Polyoxypropylenediamine	30 - 35	9046-10-0
Nonylphenol	50 - 60	84852-15-3
Proprietary Amine	~ 10	N/A
Non Hazardous additives	< 1	N/A

COMMENTS: The specific chemical identities are being withheld as a trade secret (29CFR1910.1200).

4. FIRST AID MEASURES

EYES: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

SKIN: Remove contaminated shoes and clothing. Flush affected area with large amounts of water. If skin is not damaged, clean affected areas thoroughly with mild soap and water. Seek medical attention if skin pain or irritation persists, or if skin or tissue is damaged.

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 exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Pain, redness or irritation of the eyes.

ACUTE EFFECTS: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

CHRONIC EFFECTS: Repeated contact may cause skin sensitization.

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

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: No unusual fire or explosion hazards noted.

EXTINGUISHING MEDIA: Water fog or fine spray. Dry Chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be effective. Water fog, applied gently may be used as a blanket for the extinguishments. DO NOT use direct water stream. May spread fire.

HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides (CO₂, CO), and Nitrogen Oxides

OTHER CONSIDERATIONS: Do not allow run-off from fire fighting to enter drains or water courses.

FIRE FIGHTING PROCEDURES: Evacuate any non-essential personnel. Extinguish all ignition sources if safe to do so. Move container from fire area if this is possible without hazard. Use water to cool exposed containers and structures until fire is out. Avoid spreading burning material with water jet stream used for cooling purposes. However, burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Fight fire from protected location or safe distance. Contain fire water run-off if possible to prevent environmental damage. Review the "Accidental Release Measures" and "Ecological Information" sections of this SDS.

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: During fire, gases hazardous to health may be formed.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: For small liquid spills, transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Soak up any residues with an appropriate absorbent material and dispose of safely. Remove any contaminated soil and dispose of safely.

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, and waterways. After donning Personal Protective Equipment take up spillage with appropriate mechanical means and contain, also collect spillage with absorbent materials such as rags, sand, earth, or vermiculite and place in container for disposal according to all Federal, State, and local regulations

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: 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.

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. Evacuate personnel to a safe area.

COMMENTS: Proper PPE for exposure to eyes, skin and inhalation is essential.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid breathing vapors or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. Use proper personal protective equipment (PPE). Use information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls safe handling, storage and disposal.

HANDLING: 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. Keep container closed when not being used.

STORAGE TEMPERATURE: Store in original container below temperature 38°C and 100°F. Protect from sunlight and store in cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Ensure adequate natural or mechanical ventilation to remove vapors from the worksite. Provide readily accessible eye wash stations and safety showers.

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 eye wash and shower station near work area in case of exposure.

RESPIRATORY: Wear appropriate respirator when ventilation is inadequate.

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

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

COMMENTS: No specific Exposure Limits have been established for this compound.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Viscous Liquid.

ODOR: Ammonia like odor.

APPEARANCE: Viscous clear to yellow liquid.

pH: Alkaline

FLASH POINT AND METHOD: 128°C (262°F) Closed Cup

FLAMMABLE LIMITS: No data available.

AUTOIGNITION TEMPERATURE: Not Available.

VAPOR PRESSURE: ~ 5 mm Hg at 154°C

VAPOR DENSITY: ~ 1 (Air = 1)

BOILING POINT: > 232°C (446°F)

MELTING POINT: Not Applicable.

SOLUBILITY IN WATER: Partially Soluble.

EVAPORATION RATE: Not Applicable.

DENSITY: 8 Lbs/Gallon

SPECIFIC GRAVITY: 0.96 (Water = 1)

VISCOSITY #1: 900 to 1 000 cP at 25°C (77°F) Brookfield

10. STABILITY AND REACTIVITY

REACTIVITY: Yes

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

STABILITY: Stable under recommended storage conditions.

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

POSSIBILITY OF HAZARDOUS REACTIONS: Large Masses mixed with Epoxy resins can polymerize hazardedly and be quite exothermic generating enough heat to self boil and cause injury.

INCOMPATIBLE MATERIALS: Avoid contact with strong acids, bases, reactive metals, and oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Polyoxypropylenediamine	> 2800 mg / kg (Rat)	> 2900 mg/kg (Rabbit)	> 0.74 mg/l (Rat)
Nonylphenol	~ 1300 mg / kg (Rat)	~ 1900 mg / kg (Rabbit)	> 900 mg/m ³ (8h) (Rat)

DERMAL LD₅₀: Material will be burning, irritating, and drying to the skin, avoid contact as is possible and use impervious rubberized gloves as necessary for repeated exposure. Wear solvent resistant gloves such as: polyethylene, To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

ORAL LD₅₀: Harmful if swallowed.

INHALATION LC₅₀: While no exposure limits have been set for this material the fumes can be quite irritating and care should be taken to avoid inhalation of fumes, mists, and vapors.

CARCINOGENICITY

NOTES: Not considered carcinogenic by OSHA, NTP, IARC, or ACGIH

STOT-SINGLE EXPOSURE: May cause respiratory irritation.

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

COMMENTS: Corrosive; causes burns to skin and eyes. May be fatal if swallowed. May cause respiratory tract irritation.

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.

ECOTOXICOLOGICAL INFORMATION: Do NOT discharge into sewers or waterways.

BIOACCUMULATION/ACCUMULATION: No data available.

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

Notes: Material is a Marine Pollutant. Components are considered hazardous to the environment, consult environmental data for toxicity values.

CHEMICAL FATE INFORMATION: No data available.

GENERAL COMMENTS: Acute Aquatic Toxicity data is from Nonylphenol CAS 84852-15-3

COMMENTS: Material contains a listed Marine Pollutant.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.

FOR LARGE SPILLS: Construct dikes to prevent entrance of chemical into sewers or waterways. Refer to section 6 and contact relevant environmental authorities.

PRODUCT DISPOSAL: Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: UN 2735, Amines, Liquid, Corrosive, n.o.s. (Polyoxypropylenediamine, Nonylphenol), Class 8, PG III, "Marine Pollutant"

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.


UN/NA NUMBER: 2735

PRIMARY HAZARD CLASS/DIVISION: 8

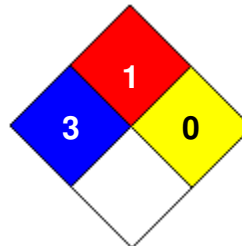
PACKING GROUP: III

VESSEL (IMO/IMDG)**SHIPPING NAME:** Amines, Liquid, Corrosive n.o.s.**UN/NA NUMBER:** 2735**PRIMARY HAZARD CLASS/DIVISION:** 8**PACKING GROUP:** III**MARINE POLLUTANT #1:** Nonylphenol**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**311/312 **HEALTH HAZARDS:** Immediate (acute) Health Hazard, Chronic (Delayed) Health Hazard.**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA REGULATORY:** All items are TSCA listed.**TSCA STATUS:** TSCA 8b**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)****29 CFR 1910.119--PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:**

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

CALIFORNIA PROPOSITION 65:  **WARNING:** This product can expose you to the chemical (Propylene Oxide CAS 75-56-9) which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.**CANADA****DOMESTIC SUBSTANCE LIST (INVENTORY):** Listed.**16. OTHER INFORMATION****PREPARED BY:** RD **Date Prepared:** 08/14/2019**HMIS RATING**

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		C

NFPA CODES**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.