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MATERIAL SAFETY DATA SHEET

Epoxy-Coat® PART A

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID: 151402

Product Name: Epoxy-Coat® Part A

Company Identification

Epoxy-Coat®

169 Gratiot

Mt. Clemens, MI 48043

Manufacturer's Phone: 1-800-841-5580

24-Hour Medical Emergency: 1-800-424-9300

Phone: 1-800- Chem Tec

2. INGREDIENTS

Ingredient	CAS No.	% by WT. Range	Exposure Limits
Epoxy-Coat® Part A	25068-38-6	100	Not Established

Key:

(PEL): OSHA

(TLV): OSHA & ACGIH

(STEL): ACGIH

CAS: Chemical Abstracts Registry Number

IDLH: Immediate Danger to Life and Health

3. HEALTH HAZARD DATA

Physical Appearance: Clear viscous liquid

Emergency Overview: Can cause irritation of eyes and skin. May cause thermal burns. Vapors of hot material can cause thermal burns. Vapors of hot material can cause respiratory passages.

Exposure limits: See Section 2

Routes of Entry: Inhalation → x Skin → x Ingestion → x

Effects of overexposure:

Acute: Eye - Mildly irritating; contact with hot material can cause thermal damage.

Skin - Skin sensitization (Allergy) may be evidenced by rash

Inhalation - Exposure to vapors or mists are moderately irritating

Ingestion - Not likely to be a relevant route of exposure.

Chronic: N/A

Medical Conditions Aggravated by Exposure: Pre-existing skin and eye exposure to this product. increase the chance of dermatitis from exposure to this product

4. FIRST AID MEASURES

Emergency and First Aid Procedures

Inhalation: Remove from exposure, restore breathing. Keep warm and rest

Eyes (splash): Immediately flush eyes with water for 15 minutes. Hold eyes open for 30 minutes, if redness, burning, blurred vision or pain persists.

Skin (splash): Wash affected area with soap and water. Remove contaminated clothing if irritation persists. Do not reuse clothing until cleaned. Contaminated shoes can not be decontaminated and should be destroyed. If skin contact with product occurs, immediately flush with cool water for 15 minutes. If clothing is stuck to a burn area, do not pull it off, but cut around the material and get medical attention immediately.

Ingestion: Do not induce vomiting. Have victim rinse out mouth with water. Do not taste from mouth. Consult a physician or poison control center.

5. FIRE AND EXPLOSION HAZARD DATA

Flash Point: 480° F PM

LEL %: N/A

UEL %: N/A

Extinguishing Media Foam: CO2

Dry chemical

Water fog

Other

Special Fire Fighting Procedures: Material will not burn unless preheated. Shut off sources of ignition. Shut off closed containers exposed to external fire and possible auto ignition or explosion. Use self contained breathing apparatus in confined spaces.

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Control sources of ignition. Closed containers may explode if heated.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

Shut off valves, contain spill, and keep out of water sources and sewers, for absorbent in spill area. Place saturated absorbent in an approved container soil to remove contaminated trace residues. For large spills, remove with storage/salvage vessels. Then soak up residue with an absorbent such as Place in non leaking containers. Flush area with water to remove trace residue skin contact, ventilate confined area, open all windows and doors, assure regulations. Keep all nonessential people away.

7. HANDLING AND STORAGE

Store large quantities only in buildings designed to comply with OSHA 1910 to prevent leakage. Do not store with incompatible materials. Keep containers from open flames and high temperatures.

Do not take internally. Avoid prolonged or repeated contact with skin, eyes, handling. This resin may be handled, shipped and stored at elevated temperature pumping temperature is 180° F. Containers should be bonded and grounded to release residue and can be dangerous. Do not pressurize, cut, weld, braze, to heat, sparks, static electricity or other sources of ignition. Do not attempt completely drained, properly bunged and promptly returned to a drum recorder.

Avoid breathing vapors in top of shipping container. To prevent thermal burn with adequate ventilation. Use non-sparking tools to open or close containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection:	No respiratory protection is used.
Ventilation:	Provide general dilution or local exhaust pattern to keep concentrations below PEL. Areas should be ventilated in accordance with CFR Part 1910.
Protective Gloves:	Butyl Rubber chemical resistant.
Eye Protection:	Use safety eyewear with splash protection.
Other Protective Clothing or Equipment:	Use chemical resistant apron and wash contaminated clothing. Clothing should be easily accessible to.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear viscous liquid
Odor:	N/A
Boiling Range (° F):	500
Solubility in water:	Negligible

Vapor Density (air – 1):	N/A
Evaporation Rate (Butyl Acetate – 1):	N/A
Vapor Pressure:	0.03 mbar@77° C
Specific Gravity:	1.17
Stability:	Stable
Conditions to avoid:	Avoid high temperatures. Reaction can produce considerable heat. Reaction can decompose the resin system.
Incompatibility (Materials to Avoid):	Can react vigorously with strong mineral acids, and strong mineral acids. Can react with primary and secondary aliphatic amines. Can splatter hot material, or ignite flammable liquids.
Hazardous decomposition products:	Fumes, smoke, carbon monoxide, and other products where combustion products are not complete. Decomposition and combustion products are not complete.
Hazardous Polymerization:	Will not occur

11. TOXICITY DATA

The effects of overexposure shown in section 2 are based on acute to:

Ingredient	Oral LD50(Rat)	Skin LD50(Rabbit)	Inhalation L
Epoxy-Coat® Part A	2000 mg/kg	<2000 mg/kg	

This product has not been classified by IARC. Recent 2-year bioassays in rats were en route to the diglycidyl ether of bisphenol A. A yielded no evidence of carcinogenicity. These resins have shown activity in vitro microbial mutagenicity screening and chromosomal aberrations in cultured rat liver cells. The significance of these tests to man is not known.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish LC50: Specie: Forelle, Dose: 2.4 mg/L 96hours, Dose 3.6 mg/L 24hours

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Hazard characteristic and regulatory waste stream product use. Accordingly it is the responsibility of the user to ensure proper storage, transportation, treatment and or disposal of the waste stream and residues at time of disposition. Dispose in accordance with applicable regulations. Incinerate under controlled conditions.

14. TRANSPORT INFORMATION

DOT Shipping Name: Not DOT Regulated
DOT Hazard Classification:
DOT Label Codes:
DOT ID Number:
DOT Package Code:
Emergency Response Guide:
Marine Pollutant:

15. REGULATORY INFORMATION

(RQ) Reportable Quantity: CERCLA

Sara 302: No TPQ

Sara 313: No de minimis concentration

Sara Section 311 List Hazards:

(a) Immediate Acute Health: N/A
(b) Delayed Chronic Health: Yes
(c) Fire: N/A
(d) Reactive: N/A
(e) Sudden Release of Pressure: N/A

Components not listed in section 2:

Phenyl Glycidyl Ether at <6ppm under California Safe Drinking Water & To 1990 as carcinogenic.

MATERIAL SAFETY DATA SHEET
Epoxy-Coat® PART B

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COM**Product Information**

Trade name: Epoxy Coat Part B

Product code: RA038

Manufacturer, Importer, supplier: Epoxy-Coat®
169 N. Gratiot
Mt. Clemens, MI 48043
800.841.5580

Emergency telephone Number: CHEMTREC US Domestic (800) 424-9300
CHEMTREC International (703) 527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

Human health hazards: Product is toxic and harmful if inhaled. May be moderate harmful if absorbed through the skin. May be corrosive to respiratory tract. Corrosive to mucous membranes. May cause skin sensitization.

Safety hazards: Corrosive. Material will not burn unless preheated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS – No.	Weight %
Cycloaliphatic amine	*	
Proprietary Component	*	
Phenolic Compound	*	

*The specific chemical identity/proportion of this component is considered trade secret.
1910.1200

4. FIRST AID MEASURES

Inhalation: Do not attempt to rescue the victim unless proper respiratory protection is worn. Move to fresh air and provide oxygen if breathing is difficult. Get medical attention.

Skin contact: Immediately remove contaminated clothing. Flush with large amounts of water. Flush exposed skin with water and follow by washing with soap and water. Seek medical attention.

Eye contact: Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention.

Ingestion: Do not induce vomiting. Have victim rinse out mouth with water. Do not give liquids to a drowsy, convulsing, or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Notes to physician

Symptoms: Lung damage (scarring, bronchitis, emphysema) may be caused by chronic exposure, and may be accompanied by chronic cough, wheezing, and shortness of breath. Allergic skin reaction causing itching, burning, redness, and swelling.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media:	Use water fog, "alcohol foam Water fog may cause frothing into containers of hot or burn
Specific hazards during Fire fighting:	DANGER. Corrosive. Material damage (pulmonary edema) combustion products, some and other potentially hazardous released upon combustion. Evacuate the area of all non-to direct flame contact should be needed to prevent weakening containers with water.
Special protective equipment For fire-fighters:	Do not enter confined fire space. shield, bunker coats, gloves, pressure NIOSH approved self

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Corrosive. May burn although not readily ignitable. Remove ignition sources. Prevent all bodily contact with spilled material. Use cautious judgment when cleaning up large. Shut off leaks, if possible without personal risk
Environmental precautions:	Dike and contain. Contain run-off and dispose of properly. Neutralize contaminated area as appropriate for Prevent from entering into drains, ditches or ri
Clean-up methods – small:	Soak up with an absorbent such as clay, sand Place in non-leaking container. Seal tightly for proper disposal.
Clean-up methods – large:	Remove with vacuum trucks or pump to storage Soak up residue with an absorbent such as clay Place in non-leaking container. Seal tightly for proper disposal. Flush area with water to remove trace residue
Additional advice:	Notify authorities if any exposures to the general occur. See Section 13 for information on disposal

7. HANDLING AND STORAGE

Handling

Advice on safe handling:	Do not get in eyes, on skin or on clothing. Do Use only with adequate ventilation. Avoid contact
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thoroughly after handling. Heating this curing ; may cause slow oxidative decomposition; also Some epoxy resins can produce exothermic runaway polymerization and charring of the resin. Thermal and chemical decompositions vary with temperature. May be corrosive to the eyes. May be corrosive to the skin. Toxic and harmful if inhaled. Slightly toxic and harmful if swallowed. May cause CNS depression. May cause skin sensitization. May cause dizziness, headache, nausea, vomiting, drinking, smoking, applying cosmetics, or using clothing before reuse. Contaminated leather or other materials should be decontaminated and should be destroyed to prevent containers to empty them. Do not breathe fumes. Use a respirator to prevent overexposure. In accordance with 29 CFR 1910.143, the types of Air-Purifying Respirator for Organic Vapors. Full-Face Supplied-Air Respirator. Self-Contained Breathing Apparatus (SCBA) - concentrations or emergency situations.

Storage

Requirements for storage areas and containers:

Store in a cool, dry place with
Keep away from open flames
Keep containers closed when not in use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective measures:	Wear appropriate respirator and full-body protective clothing.
Engineering measures:	Adequate ventilation to control airborne concentration. Eye wash fountains and safety showers should be available.
Eye Protection:	Do not get in eyes. Wear chemical goggles.
Skin and body protection:	Do not get on skin, on clothing. Wear chemical-resistant protective clothing such as gloves, shoes and a face-shield suitable to potential hazards.
Respiratory protection:	Do not breathe vapors or mists. Use a NIOSH – approved respirator as required. In accordance with 29 CFR 1910.143, the types of Air-Purifying Respirator for Organic Vapors. Full-Face Supplied-Air Respirator. Self-Contained Breathing Apparatus (SCBA) - concentrations or emergency situations.

Exposure Guidelines

Components with workplace control parameters	Regulation	Exposure limit
Cycloaliphatic amine	ACGIH	
Proprietary Component	ACGIH	
Phenolic Compound	WEEL	Time Weighted Average

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Yellow

Odor: Amine

Flash Point: > 93.33 °C (>199.99 °F) (Setaflash)

Solubility in water: Partially soluble

10. STABILITY AND REACTIVITY

Conditions to avoid: Avoid high temperatures.

Materials to avoid: Can react vigorously with strong oxidizing agents, mineral and organic bases. Reaction with some resins may produce considerable decomposition.

Hazardous reactions: Stable under normal use conditions. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: Expected to be moderately toxic, 400 < LD50 < 2000 mg/kg

Acute dermal toxicity: 1 < LC50 <= 5 mg/l.

Chronic Health Hazard

Components	Concentration	Regulation	Value
Cycloaliphatic amine		US. IARC Monographs on Occupational Exposures to Chemical Agents	
Proprietary Component		US. IARC Monographs on Occupational Exposures to Chemical Agents	
Phenolic Compound		US. IARC Monographs on Occupational Exposures to Chemical Agents	

Potential Health Effects

Inhalation:	Product is toxic and harmful if inhaled. May be corrosive to the nose, throat and respiratory system. Repeated or prolonged exposure can result in CNS depression.
Skin:	May be corrosive (causing chemical burns) if absorbed. Slightly toxic and may be harmful if absorbed. May cause skin sensitization.
Eyes:	May be corrosive to the eyes and may cause irritation. Vapors may be irritating.
Ingestion:	May be moderately toxic if swallowed. Corrosive and may cause severe and permanent damage. May produce CNS depression.
Aggravated Medical Condition:	Preexisting eye, skin and respiratory disorders may be aggravated by product.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability: This section will be updated as ecological information becomes available.

Ecotoxicity effects

Toxicity to fish: This section will be updated as ecological information becomes available.

13. DISPOSAL CONSIDERATIONS

Product disposal: If this material becomes a waste material, it will be classified as a hazardous waste number D002 (40 CFR 262) regarding proper disposal.

14. TRANSPORT INFORMATION

DOT:	UN/NA-No	2735
	Class	8
	Packing group	III
	ERG No.	153
	Proper shipping name	POLYAMINES, LIQUID, COF (UNMODIFIED)
IMDG:	UN-Number	2735
	Class	8
	Packing group	III
	EMS	F-A S-B

	Description of goods Contains	POLYAMINES, LIQUID, COF (UNMODIFIED)
IATA	UN-Number	2735
Cargo	Class	8
	Packing group	III
	EMS	F-A S-B
	Description of goods Contains	POLYAMINES, LIQUID, COF (UNMODIFIED)

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regu

Notification Status

TSCA:	All components listed.
DSL:	All components listed.
EIECS:	All components listed or polymer exempt.
AICS:	All components listed.
ENCS (JP):	All components listed.
INV (CN):	All components listed.
PICCS (PH):	All components listed.
KECI (KR):	All components listed.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Cycloaliphatic amine:	No RQ
Proprietary Component:	No RQ
Phenolic Compound:	No RQ

SARA 311/312 Hazards

Acute Health Hazard
Chronic Health Hazard

U.S. EPA Emergency Planning and Community Right-To-Know A 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Requi

Cycloaliphatic amine:	No De minimis Concentration
Proprietary Component:	No De minimis Concentration
Phenolic Compound:	No De minimis Concentration

U.S. EPA Emergency Planning and Community Right-To-Know A 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

Cycloaliphatic amine:	Threshold Planning Quantity: No TPQ
Proprietary Component:	Threshold Planning Quantity: No TPQ

Phenolic Compound	Threshold Planning Quantity: No TPQ
Cycloaliphatic amine:	Reportable quantity: No RQ
Proprietary Component:	Reportable quantity: No RQ
Phenolic Compound:	Reportable quantity: No RQ

New Jersey Right-To-Know Chemical List

Cycloaliphatic amine:	Not Listed
Proprietary Component:	Not Listed
Phenolic Compound:	Not Listed

Pennsylvania Right-To-Know Chemical List

Cycloaliphatic amine:	Not Listed
Proprietary Component:	Not Listed
Phenolic Compound:	Not Listed

Massachusetts Right-To-Know

Cycloaliphatic amine:	Not Listed
Proprietary Component:	Not Listed
Phenolic Compound:	Not Listed
HMIS Rating:	Health: 3
	Fire: 1
	Reactivity: 0

16. OTHER INFORMATION

Reference: Prepared in accordance with 29 CF

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