

Revised
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EMERGENCY PHONE (800) 255-3924
MATERIAL SAFETY DATA SHEET
MP5430 PART A (RESIN)

HMIS	HEALTH 2	FLAMMABILITY 1	REACTIVITY 0
NFPA	HEALTH 2	FIRE HAZARD 1	REACTIVITY 0

1. Chemical Product

Product Name: MP5430 PART A (RESIN)
Product Type: Epoxy Resin

2. Identity of Ingredients

Ingredients	CAS No.	OSHA PEL	ACGIH TLV	Other Limits	%Composition
Reaction product: bisphenol-A- (epichlorohydrin); epoxy resin (number average molecular weight <=700)	25068-38-6	N/A	N/A	N/A	100

3. Hazards identification

Human health hazards: May be irritating to the eyes and skin. Contact with hot material can cause thermal burns. May cause skin sensitization.

Safety hazards: Material will not burn unless preheated.

4. First aid measures

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Skin contact: In case of contact with hot product, immediately flood the affected area with cold water. Wipe excess material from exposed area. Flush exposed skin with water and follow by washing with soap if available. Carefully remove clothing; if clothing is stuck to a burn area do not pull it off, but cut around it. Cover burn area do not pull it off, but cut around it. Transport to nearest medical facility for additional treatment.

Eye contact: Flush eye with water. Rest eyes for 30 minutes. If symptoms persist, consult a physician.

Ingestion: Do not induce vomiting. Have victim rinse out mouth with water, then drink sips of water to remove taste from mouth. In general, no treatment is necessary unless large quantities are ingested. However, get medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

5. Fire fighting measures

Extinguishing media: Carbon dioxide, dry chemical, foam, or water fog.

Specific hazards during fire fighting: Material will not burn unless preheated. Cool fire exposed containers with water.

Special protective equipment for fire fighters: Do not enter confined fire space without full bunker gear, including a SCBA.

6. Accidental release measures

Spill control: Avoid contact. Evacuate area. Eliminate ignition sources. Ventilate area.

Containment: Dike, contain, and absorb with clay, sand, or other suitable material.

Cleanup: For large spills, pump to storage/salvage vessels. Soak up residue with clay, sand, or other suitable material.

Special procedures: Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

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7. Handling and storage

Handling precautions: Do not get in eyes, on skin or clothing. Wash with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Air dry and then launder contaminated clothing and protective gear before reuse. Close container after each use.

Storage: Keep in a cool, dry place. Keep containers closed when not in use. Keep away from open flames and high temperatures.

8. Exposure controls / personal protection

Eye and face protection: Wear safety glasses. Wear coverall chemical splash goggles when eye contact is possible.

Skin protection: Chemical-resistant gloves (i.e. butyl) and other gear as required to prevent skin contact.

Respiratory protection: No respiratory protection is usually required under normal conditions of use.

9. Physical and chemical properties

Specific gravity: 1.16

Boiling point: > 150°C

Flash point: > 100°C

Vapor pressure: < 1 mbar @ 68°F

10. Stability and reactivity

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to avoid: Avoid high temperatures.

Incompatible materials: Oxidizers, acids, and bases.

11. Toxicological information

Acute oral effects: LD50 > 2000 mg/kg

Acute dermal effects: LD50 > 2000 mg/kg

Sensitization: May cause skin sensitization.

Carcinogenicity: Recent 2-year bioassays in rats and mice exposed dermally yielded no evidence of carcinogenicity.

Mutagenicity: Resins of this type have proved to be inactive when tested by in vivo mutagenicity assays. These resins have shown activity in in vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat liver cells. The significance of these tests to man is unknown.

Inhalation effects: Not expected to be relevant, however, when exposure to vapors or mists is possible, it could cause respiratory tract irritation.

Skin effects: May be mildly irritating. May cause skin sensitization.

Eye effects: May be mildly irritating.

Ingestion effects: Not likely to be a relevant route of exposure.

12. Ecological information

Biodegradability: This section will be completed as ecological reviews are completed.

Toxicity to fish: This section will be completed as ecological reviews are completed.

13. Disposal considerations

Disposal: If this product becomes a waste, it would not be hazardous by RCRA criteria (40 CFR 261). Dispose of according to applicable federal, state, and local regulations.

14. Transport information

Not regulated for transport.

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15. Regulatory information

TSCA: All components listed.

DSL: All components listed.

SARA Section 311/312 hazard classes: Chronic health hazard.

California Proposition 65: Contains Phenyl Glycidyl Ether (< 6 PPM), which was listed as carcinogenic on October 1st, 1990.

Risk Phrases: R36/38 – Irritating to eyes and skin

R43 – May cause sensitization by skin contact

R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16. Other information

No other information

NON-WARRANTY: Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. Adhesive Systems shall not be liable for any injury, loss, or damage in the use of its chemical products since the conditions of use are beyond our control. In every case we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Because of changing reporting requirements and other variables it is impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to determine proper personal protection based on the actual condition of use and to comply with all Federal, State, and Local laws and regulations.

Engineering Excellence

For technical information

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MATERIAL SAFETY DATA SHEET
MP5430 PART B (HARDENER)

HMIS	HEALTH 3	FLAMMABILITY 1	REACTIVITY 0
NFPA	HEALTH 3	FIRE HAZARD 1	REACTIVITY 0

1. Chemical Product

Product Name: MP5430 PART B (HARDENER)
Product Type: Curing Agent

2. Identity of Ingredients

Ingredients	CAS No.	OSHA PEL	ACGIH TLV	Other Limits	%Composition
Mercaptan/Amine Blend	Trade Secret	N/A	N/A	N/A	90-95
Isostearic Acid	30399-84-9	N.E.	N.E.	N.E.	5-10

3. Hazards Identification

Special hazards for man and environment: None

4. First aid measures

After inhalation:	Fresh air
After skin contact:	Rinse with running water
After eye contact:	Rinse immediately with plenty of running water (for 10 minutes), seek medical advice if necessary
After ingestion:	Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice

5. Fire-fighting measures

Suitable extinguishing media:	Water spray jet, foam, extinguishing powder, CO2
Extinguishing media which must not be used for safety reasons:	High pressure waterjet
Combustion products or gases to be formed:	Carbon oxides, sulfur oxides

6. Accidental release measures

General information:	Keep away from sources of ignition and naked flames
Personal precautions:	Avoid contact with skin and eyes, ensure adequate ventilation
Environmental precautions:	Do not allow large amounts to be released into the sewer system
Process for cleaning and take-up:	Remove with liquid-absorbing material (sand, peat, sawdust)

7. Handling and storage

Handling:	Ensure good ventilation/suction at the workplace, avoid open flames and sources of ignition
Storage:	Ensure adequate ventilation, keep container tightly sealed, do not store together with oxidants

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8. Exposure controls / personal protection

Additional information for system design: Ensure good ventilation/suction at the workplace
Hand protection: Butyl gloves (0,7 mm) (Level 6 > 480 min) (In case of full contact)
Nitrile gloves (0,4 mm) (Level 3 > 60 min) (In case of spray contact)
Eye protection: Goggles which can be tightly sealed
General protection and hygiene measures: Avoid skin and eye contact

9. Physical and chemical properties

State: Transparent liquid
Odor: Intensive
Color(s): Colourless to yellowish
Flash point: >100°C
Density: 1,130 g/cm³
Viscosity (dynamic): 80,000-120,000 mPa s

10. Stability and reactivity

Materials to avoid: Vigorous reaction with strong oxidizing agents, epoxy resins, and amines
Dangerous decomposition products: None known

11. Toxicological information

General toxicological information: The present product is a chemical preparation within the meaning of the chemicals act. The following evaluation has been made on the basis of the toxicological data and content by weight of the individual ingredients.
Acute oral toxicity: LD50 > 2000 mg/kg body weight
Skin irritation: Slightly irritating, does not require labeling
Eye irritation: Slightly irritating, does not require labeling

12. Ecological information

General ecological information: The ecological evaluation of the product is based on data from the raw material and/or comparable substances.
Aquatic plant/algae toxicity: EC50 > 100 mg product/l
Ultimate biodegradation: The product is poorly biodegradable.

13. Disposal considerations

Product disposal: Special waste incineration with the approval of the responsible local authority.

14. Transport information

Road transport ADR: Not dangerous goods
Railroad transport RID: Not dangerous goods
Inland water transport ADN: Not dangerous goods
Marine transport IMDG: Not dangerous goods
Air transport IATA: Not dangerous goods

15. Regulatory information

Risk Phrases: R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.

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16. Other information

No other information

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