

Revised
December 2004



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MATERIAL SAFETY DATA SHEETS

MP 54421 PART A

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

1. GENERAL INFORMATION

PRODUCT NAME:
CHEMICAL FAMILY:

MP 54421 - RESIN
Epoxy resin

2. COMPOSITION

NAME
BISPHENOL-A TYPE EPOXY RESIN
Acrylic polymer

CAS #
25068-38-6
TS

OSHA PEL
NE
NA

ACIGH TLV
NE
NA

3. PHYSICAL DATA

FLASH POINT (PMCC) >200°F
VAPOR DENSITY > AIR
% VOLATILE BY VOL. 0
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND ODOR: CLEAR AMBER LIQUID, SLIGHT ODOR

BOILING POINT >500°F
EVAPORATION RATE NIL
SPECIFIC GRAVITY 1.17
VAPOR PRESSURE .03 @ 77C
PERCENT SOLID BY WEIGHT: 100%

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:
EXTINGUISHING MEDIA:
SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE & EXPLOSION HAZARDS:

>200°F (method used PMCC)
Water fog, carbon dioxide, foam or dry chemical.
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.
Keep containers tightly closed. Water may be used to cool unruptured containers.

5. HEALTH HAZARD DATA

Eye Protection
Skin Contact
Inhalation
Ingestion

Product could be moderately irritating to eyes. Avoid touching eyes when using this material.
Product could be moderately irritating to the eyes. Avoid touching eyes when using this material. Because of its low volatility this product is not likely to be an inhalation hazard.
No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

6. REACTIVITY DATA

STABILITY:
CONDITIONS TO AVOID:
MATERIALS TO AVOID:
HAZARDOUS POLYMERIZATION:

Stable
High temperatures, high humidity.
STRONG OXIDIZING AGENTS; STRONG ACIDS OR BASES
Will not occur



7. HEALTH HAZARD DATA

EMERGENCY FIRST AID PROCEDURES:

INHALATION:

Move person to fresh air. Restore breathing. Treat symptomatically. Consult a physician.

EYES:

Flush eyes with water for at least 15 minutes. Take to a physician for medical treatment.

SKIN: Wash affected areas with soap and water. Remove contaminated clothing. Consult a physician if irritation persists.

INGESTION: Drink plenty of water to dilute. Do not induce vomiting. Give medical attention immediately. Never give anything by mouth to an unconscious person.

8. PROTECTIVE MEASURES

RESPIRATORY PROTECTION:

VENTILATION:

PROTECTIVE GLOVES:

EYE PROTECTION:

OTHER PROTECTIVE EQUIPMENT:

HYGENIC PRACTICES:

No respiratory protection should be needed.

Local exhaust is recommended. Mechanical exhaust can be used as a back up system.

Use neoprene or other impervious gloves to prevent skin contact.

Use safety glasses with side shields as minimum protection.

Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

Wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling and storage area. Food or beverages should not be consumed anywhere near this product is handled or stored.



MATERIAL SAFETY DATA SHEETS

MP 54421



9. SPILL OR LEAK PROCEDURES

SPILLS:

WASTE DISPOSAL METHOD:

Contain and remove with absorbent material. Avoid contact. Disposal should be done in accordance with Federal (40 CFR Part 261), State and local regulations. Before attempting clean-up, refer to hazard caution information in other sections of the MSDS form. Use only licensed hazardous waste disposal companies.

10. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

OTHER:

Do not store near heat or open flame.
Empty container should not be reused.

11. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME:

HAZARD CLASS OR DIVISION:

PACKING GROUP NUMBER:

REQUIRED LABEL:

NOT REGULATED

NA

NA

NONE

Engineering Excellence

For technical information

and support call **1-800-552-0299** or visit our website at

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MATERIAL SAFETY DATA SHEETS
MP 54421 PART B

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

1. GENERAL INFORMATION

PRODUCT NAME:	MP 54421 - PART B
CHEMICAL FAMILY:	BLEND
CHEMICAL NAME:	Mixture

2. COMPOSITION

INGREDIENT:	CAS#	OSHA PEL	ACIGH TLV
AMINO ETHYL PIPERAZINE	00140-31-8	NA	NA
NONYL PHENOL	84852-15-3	NE	NE

3. PHYSICAL DATA

BOILING POINT >431.6°F	BOILING POINT >431.6°F
VAPOR DENSITY > 1	EVAPORATION RATE <0.01
% VOLATILE BY VOL. 0	SPECIFIC GRAVITY .959
SOLUBILITY IN WATER: YES	VAPOR PRESSURE < 1mm Hg
PERCENT SOLID BY WEIGHT: 100%	APPEARANCE AND ODOR: TRANSPARENT, AMINE ODOR, LIQUID

4. FIRE AND EXPLOSION HAZARD DATA

FLASH LIMITS:	LEL: Not Established UEL: Not Established
EXTINGUISHING MEDIA:	Water fog, carbon dioxide, foam or dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES:	Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.
UNUSUAL FIRE & EXPLOSION HAZARDS:	Keep containers tightly closed. Water may be used to cool unruptured containers.

5. HEALTH HAZARD DATA

Eye Protection	Flush eyes with water for at least 15 minutes. Take to a physician for medical treatment.
Skin Contact	Wash affected areas with soap and water. Remove contaminated clothing. Consult a physician if irritation persists.
Inhalation	Move person to fresh air. Restore breathing. Treat symptomatically. Consult a physician.
Ingestion	Drink plenty of water to dilute. Do not induce vomiting. Give medical attention immediately. Never give anything by mouth to an unconscious person.

6. REACTIVITY DATA

STABILITY:	Stable
CONDITIONS TO AVOID:	High temperatures, high humidity.
MATERIALS TO AVOID:	STRONG OXIDIZING AGENTS, ACIDS, EPOXY RESINS IN UNCONTROLLED CONDITIONS
HAZARDOUS POLYMERIZATION:	Will not occur



MATERIAL SAFETY DATA SHEETS

MP 54421 PART B



7. HEALTH HAZARD DATA

SKIN CONTACT:
EYE CONTACT:

May result in irritation or chemical burn.
Product can cause severe eye irritation, swelling and/or chemical burn. Contact lenses should not be worn when working with this material.
Vapor is irritating to the upper respiratory system and mucous membranes.
Liquid causes damage to mucous membrane if swallowed.

INHALATION:
INGESTION:

EMERGENCY FIRST AID PROCEDURES:

Move person to fresh air. Restore breathing. Treat symptomatically. Consult a physician. (EYES) Flush eyes with water for at least 15 minutes. Take to a physician for medical treatment. (SKIN) Wash affected areas with soap and water. Remove contaminated clothing. Consult a physician if irritation persists. INGESTION: Drink one or two glasses of milk or water. Do not induce vomiting. Give medical attention immediately. Never give anything by mouth to an unconscious person.

8. PROTECTIVE MEASURES

RESPIRATORY PROTECTION:

Use approved chemical/mechanical filters designed to remove a combination of particulates and organic vapors in open and restricted areas when ventilation does not meet the requirements of 29 CFR 1910.134. Use approved airline type respirators or hoods in confined areas.

VENTILATION:

Sufficient ventilation in pattern and volume to keep the air contaminant concentration below applicable exposure limits. All application areas should be ventilated in accordance with OSHA regulation 29 CFR 1910.134

PROTECTIVE GLOVES:

Use neoprene or other impervious gloves to prevent skin contact.

EYE PROTECTION:

Use safety glasses with side shields as minimum protection.

OTHER PROTECTIVE EQUIPMENT:

Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

HYGENIC PRACTICES:

Wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling and storage area. Food or beverages should not be consumed anywhere near this product is handled or stored.

9. SPILL OR LEAK PROCEDURES

SPILLS:
WASTE DISPOSAL METHOD:

Contain and remove with absorbent material. Avoid contact. Disposal should be done in accordance with Federal (40 CFR Part 261), State and local regulations. Before attempting clean-up, refer to hazard caution information in other sections of the MSDS form. Use only licensed hazardous waste disposal companies.

10. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:
OTHER:

Do not store near heat or open flame.
Empty container should not be reused.

11. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Polyamines, liquid, corrosive, N.O.S. (Polyglycoldiamine)
HAZARD CLASS OR DIVISION: NA
PACKING GROUP NUMBER: NA
REQUIRED LABEL: NA
IDENTIFICATION NUMBER: NA

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