

Revised  
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## MATERIAL SAFETY DATA SHEETS

### MP 5471 PART A RESIN

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

#### 1. GENERAL INFORMATION

PRODUCT NAME: MP 5471  
TECHINICAL NAME: Epoxy Resin

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	OSHA PEL	ACIGH TLV
BISPHENOL-A TYPE EPOXY RESIN	25068-38-6	NE	NE
DIMETHYLPROPANE	17557-23-2	NE	NE

#### 3. PHYSICAL DATA

FLASH POINT (PMCC) >200°F	BOILING POINT >400°F
VAPOR DENSITY > AIREVAPORATION RATE NIL	% VOLATILE BY VOL. 0
SPECIFIC GRAVITY 1.16	SOLUBILITY IN WATER: NEGLIGIBLE
VAPOR PRESSURE < 1mm Hg	APPEARANCE AND ODOR: LIQUID, MILD EPOXY ODOR

#### 4. FIRE AND EXPLOSION DATA

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. REACTIVITY

STABILITY:	STABLE
HAZARDOUS POLYMERIZATION:	Will not occur.
CONDITIONS TO AVOID:	High temperatures, high humidity.
MATERIALS TO AVOID:	STRONG OXIDIZING AGENTS, ACIDS

#### 6. HEALTH HAZARD DATA

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting disorders of the skin and/or eyes.

EYE CONTACT:  
Contains ingredients which are irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

SKIN CONTACT:  
Contains materials which cause moderate skin irritation. This product may cause skin sensitization or allergic reactions which may be severe with certain people. Symptoms include rash, itching, hives and swelling of extremities. Prolonged or repeated exposure may cause a defatting or drying action to skin.

INHALATION:  
Unlikely at room temperature due to low volatility, however heating can generate vapors that may cause respiratory irritation.

INGESTION:  
Product is harmful if swallowed



# MATERIAL SAFETY DATA SHEETS

## MP 5471 PART A RESIN



### 7. 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.

### 8. SPILL OR LEAK PROCEDURES

SPILLS:	Contain and remove with absorbent material. Avoid contact.
WASTE DISPOSAL METHOD:	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.

### 9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:	Do not store near heat or open flame.
OTHER:	Empty container should not be reused.

### 10. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME:	NOT REGULATED
HAZARD CLASS OR DIVISION:	NA
PACKING GROUP NUMBER:	NA
REQUIRED LABEL:	NONE
UN NUMBER:	NA
TSCA STATUS:	All components of this product are listed on, or exempted from the requirement to be listed on, the TSCA Inventory.

### 11. 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

**Engineering Excellence**

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**MATERIAL SAFETY DATA SHEETS**  
**MP 5471 PART B**

<b>HMIS;</b>	<b>HEALTH</b>	<b>1</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>REACTIVITY</b>	<b>1</b>
<b>NFPA</b>	<b>HEALTH</b>	<b>1</b>	<b>FIRE HAZARD</b>	<b>1</b>	<b>REACTIVITY</b>	<b>1</b>

### 1. GENERAL INFORMATION

PRODUCT NAME: MP 5471  
TECHINCAL NAME: Mixture

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	OSHA PEL	ACIGH TLV
Boron Trifluoride - amine complex	NA	NA	NA

### 3. PHYSICAL DATA

FLASH POINT (PMCC) >200°F	BOILING POINT >200°F
VAPOR DENSITY > AIR	EVAPORATION RATE NIL
% VOLATILE BY VOL. 0	SPECIFIC GRAVITY 1.2
SOLUBILITY IN WATER: NEGLIGIBLE	VAPOR PRESSURE < 1mm Hg
APPEARANCE AND ODOR: DARK LIQUID, MILD ODOR	

### 4. FIRE AND EXPLOSION DATA

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. REACTIVITY

STABILITY:	STABLE
HAZARDOUS POLYMERIZATION:	Will not occur.
CONDITIONS TO AVOID:	High temperatures >100C, high humidity.
MATERIALS TO AVOID:	STRONG OXIDIZING AGENTS; STRONG ACIDS OR BASES, EPOXY RESINS IN UNCONTROLLED CONDITIONS
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide, boron trifluoride gas, misc. acids, nitrogen compounds.

### 6. HEALTH HAZARD DATA

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:	Preexisting disorders of the skin and/or eyes.
EYE CONTACT:	
Contains ingredients which are irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.	
SKIN CONTACT:	
Contains materials which cause moderate skin irritation. This product may cause skin sensitization or allergic reactions which may be severe with certain people. Symptoms include rash, itching, hives and swelling of extremities. Prolonged or repeated exposure may cause a defatting or drying action to skin.	
INHALATION:	
Unlikely at room temperature due to low volatility, however heating can generate vapors that may cause respiratory irritation.	
INGESTION:	
Product is harmful if swallowed	



# MATERIAL SAFETY DATA SHEETS

## MP 5471 PART B



### 7. 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. 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.

### 8. SPILL OR LEAK PROCEDURES

SPILLS:

Wet with water to eliminate BF<sub>3</sub>. Material cleans up with soap and water. Contain and remove with absorbent material. Avoid contact.

WASTE DISPOSAL METHOD:

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.

### 9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

Do not store near heat or open flame.

OTHER:

Empty container should not be reused.

### 10. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME:

NOT REGULATED

HAZARD CLASS OR DIVISION:

NA

PACKING GROUP NUMBER:

NA

REQUIRED LABEL:

NONE

UN NUMBER:

NA

TSCA STATUS: All components of this product are listed on, or exempted from the requirement to be listed on, the TSCA Inventory.

### 11. 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

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