

Revised  
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## MATERIAL SAFETY DATA SHEETS

### MP 54190 RESIN PART A

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

#### 1. GENERAL INFORMATION

PRODUCT NAME:	MP 54190 - RESIN PART A
CHEMICAL COMPOSITION:	Mixture
CHEMICAL FAMILY:	Epoxy Resin

#### 2. COMPOSITION

INGREDIENT:	CAS#	OSHA PEL	TLV
BISPHENOL-A TYPE EPOXY RESIN	25068-38-6	NE	NE
KAOLIN	1332-58-7	10mg/m3	2 mg/m3

#### 3. CHEMICAL AND PHYSICAL PROPERTIES

FLASH POINT (PMCC) >200°F	BOILING POINT >400°F
VAPOR DENSITY > AIR	EVAPORATION RATE NIL
% VOLATILE BY VOL. 0	SPECIFIC GRAVITY 1.34
SOLUBILITY IN WATER: NEGLIGIBLE	VAPOR PRESSURE < 1mm Hg
APPEARANCE AND ODOR: GREEN LIQUID, MILD EPOXY ODOR	

#### 4. FIRE AND EXPLOSION HAZARD 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. HEALTH HAZARD DATA

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE	Pre-existing 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 54190 RESIN PART A



### 6. REACTIVITY DATA

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

Stable  
 High temperatures, high humidity.  
 Strong oxidizing Agents, Acids, Bases and Amines  
 Will not occur.

### 7. SPILL OR LEAK PROCEDURES

Spills:  
 WATER DISPOSAL METHOD:

Contain and remove with absorbent material. Avoid  
 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.

### 8. SPECIAL PROTECTION INFORMATION

RESPIRATORY:

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.

EYE PROTECTION:

Use safety glasses with side shields as minimum protection.

GLOVE PROTECTION:

Use neoprene or other impervious gloves to prevent skin contact.

### 9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:  
 OTHER:

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

### 10. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME:  
 HAZARD CLASS OR DIVISION:  
 PACKING GROUP NUMBER:  
 REQUIRED LABEL:  
 UN NUMBER:  
 TSCA STATUS:

Not Regulated  
 NA  
 NA  
 NONE  
 NA  
 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:  
 EYES:  
 SKIN:  
 INGESTION:

Move person to fresh air. Restore breathing. Treat symptomatically. Consult a physician.  
 Flush eyes with water for at least 15 minutes. Take to a physician for medical treatment.  
 Wash affected areas with soap and water. Remove contaminated clothing. Consult a physician if irritation persists.  
 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 54190 PART B

<b>HMS;</b>	<b>HEALTH</b>	<b>3</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>REACTIVITY</b>	<b>0</b>
<b>NFPA</b>	<b>HEALTH</b>	<b>3</b>	<b>FIRE HAZARD</b>	<b>1</b>	<b>REACTIVITY</b>	<b>0</b>

### 1. GENERAL INFORMATION

PRODUCT NAME:	MP 54190 - PART B
CHEMICAL COMPOSITION:	Mixture
CHEMICAL FAMILY:	Polyamide Blend

### 2. COMPOSITION

INGREDIENT:	CAS#	OSHA PEL	TLV
POLYAMIDE RESIN	NA	NA	NE
KAOLIN	1332-58-7	10mg/m3	2 mg/m3
HYDROGENATED TERPHENYLS	61788-32-7	NE	NE
CARBON BLACK	1333-86-4	3.5mg/m3	3.5mg/m3

### 3. CHEMICAL AND PHYSICAL PROPERTIES

FLASH POINT (PMCC) >200°F	BOILING POINT >200°F
VAPOR DENSITY > AIR	EVAPORATION RATE NIL
% VOLATILE BY VOL. 0	SPECIFIC GRAVITY 1.31
SOLUBILITY IN WATER: PARTIAL	VAPOR PRESSURE < 1mm Hg
APPEARANCE AND ODOR: GRAY LIQUID, MILD AMINE ODOR	

### 4. FIRE AND EXPLOSION HAZARD 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 & EXPLOSIVE HAZARDS:	Keep containers tightly closed. Water may be used to cool unruptured containers.

### 5. HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:	
ACUTE:SKIN;	Primarily redness and irritation.
CHRONIC:	May cause skin sensitization.
ACUTE:INHALATION;	Symptoms may include burning sensation, coughing and shortness of breath.

### 6. REACTIVITY DATA

STABILITY:	Stable
CONDITIONS TO AVOID:	High temperatures, high humidity.
MATERIALS TO AVOID:	Strong Oxidizers, Peroxides and Epoxides
HAZARDOUS POLYMERIZATION:	Will not occur.



# MATERIAL SAFETY DATA SHEETS

## MP 54190 PART B



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### 7. SPILL OR LEAK PROCEDURES

Spills:

Contain and remove with absorbent material. Avoid

WATER 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.

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### 8. SPECIAL PROTECTION INFORMATION

RESPIRATORY:

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.

EYE PROTECTION:

Use safety glasses with side shields as minimum protection.

PROTECTIVE GLOVES:

Use neoprene or other impervious gloves to prevent skin contact.

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### 9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

Do not store near heat or open flame.

OTHER:

Empty container should not be reused.

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### 10. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: NOT REGULATED

HAZARD CLASS OR DIVISION: NA

PACKING GROUP NUMBER: NA

REQUIRED LABEL: NA

IDENTIFICATION NUMBER: NA

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### 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 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.

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