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## MATERIAL SAFETY DATA SHEETS

### MP 54110GR RESIN PART A

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

#### 1. GENERAL INFORMATION

PRODUCT NAME:	MP 54110GR - RESIN PART A
CHEMICAL FAMILY:	Epoxy resin
CHEMICAL NAME:	Bisphenol A/Epichlorodhydrin Based Epoxy

#### 2. COMPOSITION

INGREDIENT:	CAS#	%
Epoxy Resin	25068-38-6	100

#### 3. PHYSICAL DATA

FLASH POINT (PMCC):	>200°F
BOILING POINT:	>400°F
VAPOR DENSITY:	> AIR
EVAPORATION 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 HAZARD DATA

FLASH POINT:	>200°F (method used PMCC)
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; STRONG ACIDS OR BASES
HAZARDOUS POLYMERIZATION:	Will not occur



# MATERIAL SAFETY DATA SHEETS

## MP 54110GR RESIN PART A



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### 7. HEALTH HAZARD DATA

**PRIMARY ROUTES OF EXPOSURE:** \_X\_DERMAL / EYE \_X\_INHALATION \_\_INGESTION

**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

#### CHRONIC HEALTH EFFECTS

The Bisphenol-A epoxy (DGEBA) resin this product contains has been shown to be mutagenic in some microbial tests, but failed to show mutagenicity in others, the significance of this is unknown. Chromosomal aberrations were observed in cultured rat liver cells. Two year bioassays on mice exposed by the dermal route to DGEBA resin gave only very limited evidence of weak carcinogenicity. Based on this and other evidence the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable as carcinogens.

#### 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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### 8. PROTECTIVE MEASURES

<b>RESPIRATORY PROTECTION:</b>	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.
<b>VENTILATION:</b>	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
<b>PROTECTIVE GLOVES:</b>	Use neoprene or other impervious gloves to prevent skin contact.
<b>EYE PROTECTION:</b>	Use safety glasses with side shields as minimum protection.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.
<b>HYGENIC PRACTICES:</b>	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.

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# MATERIAL SAFETY DATA SHEETS

## MP 54110GR RESIN PART A



### 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

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

**[www.instantca.com](http://www.instantca.com)**

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## MATERIAL SAFETY DATA SHEETS

### MP 54110GR PART B

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

#### 1. GENERAL INFORMATION

PRODUCT NAME:	MP 54110GR - PART B
CHEMICAL FAMILY:	POLYAMINE BLEND
CHEMICAL NAME:	Mixture

#### 2. COMPOSITION

INGREDIENT:	CAS#	OSHA PEL	ACIGH TLV
POLYMERCAPTAN RESIN*	NA	NA	NA
POLYAMIDE RESIN*	NA	NA	NA

\* EXACT IDENTITY WITHHELD AS A TRADE SECRET

#### 3. PHYSICAL DATA

FLASH POINT (PMCC):	>200°F
BOILING POINT:	>200°F
VAPOR DENSITY:	> AIR
EVAPORATION RATE:	NIL
% VOLATILE BY VOL.:	0
SPECIFIC GRAVITY:	1.10
SOLUBILITY IN WATER:	SLIGHT
VAPOR PRESSURE:	< 1mm Hg
APPEARANCE AND ODOR:	AMBER PASTE, MILD AMINE ODOR

#### 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	>200°F (method used PMCC)
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 54110GR PART B

### 7. HEALTH HAZARD DATA

**EFFECTS OF OVEREXPOSURE:**

ACUTE:

CHRONIC:

ACUTE:

SKIN; Primarily redness and irritation.

May cause skin sensitization.

INHALATION; Symptoms may include burning sensation, coughing and shortness of breath.

**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:** Chronic diseases of the skin,

**PRIMARY ROUTES OF EXPOSURE:**  DERMAL  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:

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### 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

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