

Revised  
January 2002



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## MATERIAL SAFETY DATA SHEETS

### MP 54270BK RESIN PART A

<b>HMIS;</b>	<b>HEALTH</b>	<b>2</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>REACTIVITY</b>	<b>0</b>
<b>NFPA</b>	<b>HEALTH</b>	<b>2</b>	<b>FIRE HAZARD</b>	<b>1</b>	<b>REACTIVITY</b>	<b>0</b>

#### 1. GENERAL INFORMATION

PRODUCT NAME:	MP 54270BK - RESIN PART A
CHEMICAL FAMILY:	Epoxy Resin
CHEMICAL NAME:	Mixture

#### 2. COMPOSITION

INGREDIENT:	CAS#	TLV-TWA	PEL
BISPHENOL-A TYPE EPOXY RESIN	25068-38-6	NE	NE
CARBON BLACK	1333-86-4	3.5mg/m3	3.5mg/m3
AMORPHOUS SILICON DIOXIDE	7631-86-9	20mppcf	NA

\* EXACT IDENTITY WITHHELD AS A TRADE SECRET

#### 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 1.19
SOLUBILITY IN WATER: NEGLIGIBLE	VAPOR PRESSURE < 1mm Hg
APPEARANCE AND ODOR: BLACK PASTE, MILD EPOXY ODOR	

#### 4. FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PROCEDURES:	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.
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:	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 54270BK RESIN PART A



### 6. REACTIVITY DATA

HAZARDOUS POLYMERIZATION:  
CONDITIONS TO AVOID:  
MATERIALS TO AVOID:

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

### 7. 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.

### 8. SPECIAL PROTECTION INFORMATION

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

OTHER PROTECTIVE EQUIPMENT:

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.

HYGENIC PRACTICES:

### 9. SPECIAL PRECAUTIONS

AVERAGE SHELF LIFE:  
STORAGE:  
OTHER:

12 Months in original sealed container  
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:

NOT REGULATED  
NA  
NA  
NONE

**Engineering Excellence**

For technical information  
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# MATERIAL SAFETY DATA SHEETS

## MP 54270BK PART B

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

### 1. GENERAL INFORMATION

PRODUCT NAME:	MP 54270BK - PART B
CHEMICAL FAMILY:	Polyamine Blend
CHEMICAL NAME:	Mixture

### 2. COMPOSITION

INGREDIENT:	CAS#	TLV-TWA	PEL
POLYAMIDE RESIN*	NA	NA	NA
N-AMINOETHYL PIPERAZINE	140-31-8	NA	NA
NONYL PHENOL	84852-15-3	NE	NE

\* EXACT IDENTITY WITHHELD AS A TRADE SECRET

### 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 1.00
SOLUBILITY IN WATER: NEGLIGIBLE	VAPOR PRESSURE < 1mm Hg
APPEARANCE AND ODOR: AMBER LIQUID, MILD AMINE ODOR	

### 4. FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PROCEDURES:	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.
UNUSUAL FIRE & EXPLOSION HAZARDS:	Keep containers tightly closed. Water may be used to cool unruptured containers.

### 5. HEALTH HAZARD DATA

ACUTE: SKIN; CHRONIC: ACUTE: INHALATION;	Primarily redness and irritation. May cause skin sensitization. Symptoms may include burning sensation, coughing and shortness of breath.
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### 6. REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID: MATERIALS TO AVOID:	Will not occur. High temperatures, high humidity. STRONG OXIDIZING AGENTS; STRONG ACIDS OR BASES.
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# MATERIAL SAFETY DATA SHEETS

## MP 54270BK PART B



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### 7. SPILL OR LEAK PROCEDURES

SPILLS:

WASTE DISPOSAL METHOD:

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### 8. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

VENTILATION:

PROTECTIVE GLOVES:

EYE PROTECTION:

OTHER PROTECTIVE EQUIPMENT:

HYGENIC PRACTICES:

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. 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. 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.

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### 9. SPECIAL PRECAUTIONS

AVERAGE SHELF LIFE:

STORAGE:

OTHER:

12 Months in original sealed container  
DO NOT store near heat or open flame.  
Empty container should not be reused.

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### 10. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Polyamines, liquid, corrosive, N.O.S. (N-aminoethyl piperazine, nonyl phenol)

HAZARD CLASS OR DIVISION: 8

PACKING GROUP NUMBER: III

REQUIRED LABEL: CORROSIVE

IDENTIFICATION NUMBER: 2735

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