



Factor II, Incorporated

P.O. Box 1339
Lakeside, AZ 85929

Phone:(928) 537-8387
Fax: (928) 537-0893

Material Safety Data Sheet MM-100 Part A EPOXY SURFACE COAT

In Case of Emergency Contact 928-537-8387 Factor II, Inc.

Factor II Technology urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling each customer or recipient should: (1) notify and furnish its employees, agents, contractors, customers, and others whom it knows or believes will use this material of the information regarding hazards or safety, (2) request its customers to notify their employees, customers and other users of the product of this information.

I. PRODUCT IDENTIFICATION

PRODUCT NAME. – MM-100 Part A
PRODUCT CLASS. Epoxy Resin
CHEMICAL TYPE. Bisphenol A Digycidyl Ether Mixture

II. HAZARDOUS INGREDIENTS

SUBSTANCE NAME & CAS NUMBER	OSHA TWA & STEL NIOSH IDLH	ACGIH TWA	NIOSH TWA
Bis-Epi Resin 25068-38-6	NE Butanediol Digycidyl ether 2425-79-8		

III. PHYSICAL/CHEMICAL PROPERTIES

APPEARANCE/ODOR Semi paste/White /slight odor
SPECIFIC GRAVITY (DENSITY) 1.64
BOILING POINT >400°
VAPOR PRESSURE N/A
% VOLATILE Nil
SOLUBILITY IN WATER Slight
V.O.C N/A

IV. EMERGENCY AND FIRST AID PROCEDURES

IF IN EYE Flush eyes with Luke warm, running water for 15 minutes. Obtain medical attention if irritation develops.
IF ON SKIN Remove contaminated clothing, wash affected area with mild soap & water twice.
INHALATION Remove to fresh air environment. Obtain medical attention if immediate or delayed irritation, or asthmatic symptoms occur.
INGESTION Dilute with large amounts of water. Induce Vomiting. Never give anything by mouth to an unconscious person.



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V. OCCUPATIONAL CONTROL RECOMMENDATIONS

EYE PROTECTION Safety glasses or goggles. Plastic face shield should be worn for complete face protection.

SKIN PROTECTION Impermeable gloves. Avoid skin contact during all handling and usage. Wash hands and face before eating or handling tobacco products.

RESPIRATORY PROTECTION. Exhaust ventilation recommended. Observe OSHA regulations for respirator use.

VENTILATION Local exhaust, or well-ventilated work area must be provided.

ADDITIONAL PROTECTIVE MEASURES: Safety showers and eye wash stations should be easily accessible to the work area. Training is important. Follow all label precautions.

VI. FIRE HAZARD AND PROTECTION DATA

FLASH POINT 2005° F PMCC

HAZARDOUS CLASSIFICATION: Class 8, PGIII

EXTINGUISHING MEDIA Dry chemical, CO2 or foam.

SPECIAL FIRE FIGHTING PROCEDURE Use self-contained breathing apparatus. Remove containers from fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

UNUSUAL FIRE/EXPLOSION HAZARD. Toxic fumes may be generated during combustion or high heat exposure.

VII. REACTIVITY DATA

STABILITY Stable at room temperature in closed containers under normal storage and handling conditions.

INCOMPATIBILITY-MATERIALS TO AVOID: Oxidizing acids, Lewis acids, metal-organic compounds.

POLYMERIZATION Hazard polymerization will not occur.

VIII. HEALTH AND HAZARD DATA

EYES Can cause irritation.

SKIN Redness, swelling, sensitization is possible.

INHALATION/INGESTION Irritation to respiratory tract, acute or delayed asthmatic symptoms. Shortness of breath, bronchial irritation.

EXISTING MEDICAL CONDITIONS Existing skin disorders, asthma; prior sensitization of skin

IX. SPECIAL PRECAUTIONS, HANDLING, AND STORAGE DATA

HANDLING PRECAUTIONS Avoid contact with eyes, skin and clothing. Avoid breathing vapor over open container.

STORAGE TEMPERATURE (MIN/MAX). Store in cool, dry place away from excessive heat in original waterproof container. Containers should be tightly sealed to avoid contamination with foreign materials.

SHELF LIFE 6 months under manufacturers recommended storage conditions

X. SPILL, LEAK, AND DISPOSAL PROCEDURES



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SPILL OR LEAK PROCEDURES. Provide adequate ventilation and wear personal protective equipment. Evacuate personnel as a precaution Prevent product spill from entering sewers, streams or drinking water. Collect liquid or soak up with inert filler or absorbent, such as dry earth, sand, or oil absorbent sweeping compound. For large spills dike ahead of spill.

WASTE DISPOSAL materials *Dispose in accordance with federal, state, and local regulations for hazardous materials*

XI. SHIPPING INFORMATION

DOT SHIPPING NAME Non-restricted, N.O.I.
TECHNICAL SHIPPING NAME Plastic Material
DOT HAZARD CLASSIFICATION Non-restricted
UN/NA NUMBER None
PACKING GROUP: Non-Restrictive
LABEL: None

XII. U.S. REGULATORY INFORMATION

TSCA Alt components of this product are registered under the regulations of the Toxic Substance Control Act.
SARA TITLE III, SECTION 313/312 Codes: N/A
SECTION 313 (40 CFR 372.65): N/A

XIII. TOXICOLOGICAL & ECOLOGICAL INFORMATION

Information Unavailable

EMERGENCY NOTICE

Contact CHEMTREC only in event of chemical emergencies of spills, leaks, fires, exposures, or accidents involving chemicals.
CHEMTREC: 1 (800) 424-9300



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Material Safety Data Sheet MM-100 Part B EPOXY SURFACE COAT

In Case of Emergency Contact 928-242-1308 or 928-537-8387

Factor II Technology urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling each customer or recipient should: (1) notify and furnish its employees, agents, contractors, customers, and others whom it knows or believes will use this material of the information regarding hazards or safety, (2) request its customers to notify their employees, customers and other users of the product of this information.

I. PRODUCT IDENTIFICATION

PRODUCT NAME. – MM-100 Part B
PRODUCT CLASS. Epoxy Hardener
CHEMICAL TYPE. POLYAMINE

II. HAZARDOUS INGREDIENTS

SUBSTANCE NAME & CAS NUMBER	OSHA TWA & STEL NIOSH IDLH	ACGIH TWA	NIOSH TWA
Bisphenol-A 80-05-7	NE 10 ppm	NE	NE
Polyethylene polyamine	Proprietary		

III. PHYSICAL/CHEMICAL PROPERTIES

APPEARANCE/ODOR Liquid; slight ammonia-like odor
SPECIFIC GRAVITY (DENSITY) 1.06
BOILING POINT B.P. >385° F (>196°C)
VAPOR PRESSURE <0.3 mm Hg @ 77 °F (25° C)
% VOLATILE Nil
SOLUBILITY IN WATER Slight
V.O.C ref EPA Meth. 24: N/A

IV. EMERGENCY AND FIRST AID PROCEDURES

IF IN EYE Flush eyes with Luke warm, running water for 15 minutes. Obtain medical attention if irritation develops.
IF ON SKIN Remove contaminated clothing, wash affected area with mild soap & water twice.
INHALATION Remove to fresh air environment. Obtain medical attention if immediate or delayed irritation, or asthmatic symptoms occur.



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INGESTION If swallowed, call physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

V. OCCUPATIONAL CONTROL RECOMMENDATIONS

EYE PROTECTION Safety glasses or goggles. Plastic face shield should be worn for complete face protection.
SKIN PROTECTION Impermeable gloves. Avoid skin contact during all handling and usage. Wash hands and face before eating or handling tobacco products.

RESPIRATORY PROTECTION. Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH certified) may be necessary for certain applications. Observe OSHA regulations for respirator use.

VENTILATION Local exhaust, or well-ventilated work area must be provided.
ADDITIONAL PROTECTIVE MEASURES: Safety showers and eye wash stations should be easily accessible to the work area. Training is important. Follow all label precautions.

VI. FIRE HAZARD AND PROTECTION DATA

FLASH POINT 385° F (>196°C) PMCC

HAZARDOUS CLASSIFICATION: Class 8, PGIII

EXTINGUISHING MEDIA Standard for chemical fires; water spray, dry chemical, CO₂ or foam.

SPECIAL FIRE FIGHTING PROCEDUR. Cool fire exposed containers with water spray. Remove containers from fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

UNUSUAL FIRE/EXPLOSION HAZARD. Toxic fumes may be generated during combustion or high heat exposure.

VII. REACTIVITY DATA

STABILITY Stable at room temperature in closed containers under normal storage and handling conditions.

INCOMPATIBILITY-MATRLS TO AVOID: Acids, chlorinated hydrocarbons. May corrode copper or brass.

POLYMERIZATION Hazard polymerization will not occur.

VIII. HEALTH AND HAZARD DATA

EYES Can cause severe irritation.

SKIN Redness, swelling, sensitization is possible.

INALATION/INGESTION Irritation to respiratory tract, acute or delayed asthmatic symptoms.

EXISTING MEDICAL CONDITIONS Existing skin disorders, asthma; prior sensitization of skin

IX. SPECIAL PRECAUTIONS, HANDLING, AND STORAGE DATA

HANDLING PRECAUTIONS Avoid contact with eyes, skin and clothing. Avoid breathing vapor over open container.

STORAGE TEMPERATURE (MIN/MAX). 65-80°F (18-27°C) Store in cool, dry place away from excessive heat in original waterproof container. Containers should be tightly sealed to avoid contamination with foreign materials.

SHELF LIFE 12 months under manufacturers recommended storage conditions



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X. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL OR LEAK PROCEDURES. Provide adequate ventilation and wear personal protective equipment. Evacuate personnel as a precaution Prevent product spill from entering sewers, streams or drinking water. Collect liquid or soak up with inert filler or absorbent, such as dry earth, sand, or oil absorbent sweeping compound. For large spills dike ahead of spill.

WASTE DISPOSAL materials *Dispose in accordance with federal, state, and local regulations for hazardous materials*

XI. SHIPPING INFORMATION

DOT SHIPPING NAME	Corrosive liquid, n.o.s.	Regulated	
TECHNICAL SHIPPING NAME	Triethylenetetramine solution		Class 8, PG III
DOT HAZARD CLASSIFICATION	8		
UN/NA NUMBER	UN1760		
PACKING GROUP:	III		
LABEL:	CORROSIVE		

XII. U.S. REGULATORY INFORMATION

TSCA Alt components of this product are registered under the regulations of the Toxic Substance Control Act.

SARA TITLE III, SECTION 313/312 Codes: N/A
SECTION 313 (40 CFR 372.65): N/A

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