

Revised
January 2002



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MATERIAL SAFETY DATA SHEETS

MP 5405NS RESIN PART A

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

1. GENERAL INFORMATION

PRODUCT NAME:	MP 5405NS - RESIN PART A
CHEMICAL FAMILY:	Epoxy resin
CHEMICAL NAME:	MIXTURE

2. COMPOSITION

NAME	CAS #	OSHA PEL	ACIGH TLV
BISPHENOL-A TYPE EPOXY RESIN	25068-38-6	NE	NE
BUTYL GLYCIDYL ETHER	2426-08-6	25ppm	25ppm
CARBON BLACK	1333-86-4	3.5mg/m ³	3.5mg/m ³
AMORPHOUS SILICON DIOXIDE	7631-86-9	20mppcf	NA

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: PASTE, 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:	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

6. REACTIVITY DATA

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



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MP 5405NS RESIN PART A



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:

VENTILATION:

EYE:
OTHER PROTECTIVE
EQUIPMENT:

Because of its low volatility this product is likely to be an inhalation
Adequate in-plant air movement is sufficient. Use a NIOSH approved respirator, or a self-contained breathing apparatus when exposure limits exceed established airborne limits.
Safety Glasses w/ side shields or splash goggles
Wear impervious gloves and protective clothing as necessary to prevent skin contact

9. SPECIAL PRECAUTIONS

Storage Temperature:
Average Shelf Life:
Special Sensitivity
(Heat, light, moisture):
PRECAUTIONS TO BE TAKEN IN
HANDLING AND STORAGE:

40-80 °F
Twelve months in original sealed container
Moisture and Excessive heat
Store in a dry area away from excessive heat

Engineering Excellence

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MATERIAL SAFETY DATA SHEETS

MP 5405NS HARDENER PART B

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

1. GENERAL INFORMATION

PRODUCT NAME:
CHEMICAL FAMILY:
CHEMICAL NAME:
SYNONYMS:

MP 5405NS - HARDENER PART B
Mercaptan-Terminated Polymer
Prop.
Mercaptan Polymer

2. COMPOSITION

INGREDIENT:
Mercaptan Polymer

CAS#	%	TLV
Trade Secret	100%	495 °F

3. CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:
ODOR:
SPECIFIC GRAVITY:
BOILING POINT:
SOLUBILITY IN WATER:
VAPOR DENSITY:
VAPOR PRESSURE:
COLOR:

Low Viscosity Paste
Mercaptan Odor
1.15
Not Determined
Slight
N/A
N/A
Yellow

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:
FLAMMABLE LIMITS
EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES/
UNUSUAL FIRE & EXPLOSIVE HAZARDS:

N/A
LEL = N/A UEL = N/A
Most standard fire fighting agents are suitable eg.
Carbon Dioxide, dry chemicals, water
Fire fighter should wear full protective
clothing including a positive pressure self-contained
breathing apparatus.

5. HEALTH HAZARD DATA

Eye Protection

Skin Contact

Inhalation
Ingestion

Flush eyes with water for thirty minutes, prompt medical
consultation is essential
Remove the uncured product with a dry cloth or towel,
wash thoroughly with soap and water. Consult a
Physician if irritation develops.
Remove to fresh air if effects occur. Consult Physician.
INDUCE VOMITING. In general, no treatment is
necessary unless large quantities of product are
ingested. However, get medical attention.

6. REACTIVITY DATA

STABILITY:
CONDITIONS TO AVOID:
INCOMPATIBILITY:
HAZARDOUS DECOMPOSITION:
HAZARDOUS POLYMERIZATION:
CONDITION TO AVOID:

Stable
Avoid Oxidizing Agents
N/A
Ammonia, Oxide, Nitrogen or carbon compound
Will not occur



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MP 5405NS HARDENER PART B



7. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL
RELEASE OR SPILLED:

WATER DISPOSAL METHOD:

Cover spills with dry absorbent material is
such as sand or sawdust: scoop up and
place in an appropriate container
Bury or incinerate in accordance with
EPA Federal, State and Local regulations

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VENTILATION:

EYE:
OTHER PROTECTIVE
EQUIPMENT:

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an inhalation
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NIOSH approved respirator, or a self-contained
breathing apparatus when exposure limits exceed
established airborne limits.
Safety Glasses w/ side shields or splash goggles
Wear impervious gloves and protective clothing
as necessary to prevent skin contact

9. SPECIAL PRECAUTIONS

Storage Temperature:

Average Shelf Life:

Special Sensitivity

(Heat, light, moisture):

PRECAUTIONS TO BE TAKEN IN
HANDLING AND STORAGE:

40-80°F

Twelve months in original sealed container

Moisture and Excessive heat

Store in a dry area away from excessive heat

10. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: NOT REGULATED

HAZARD CLASS OR DIVISON: NA

PACKING GROUP NUMBER: NA

REQUIRED LABEL: NONE

IDENTIFICATION NUMBER: NA

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