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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Code: MC420A
Product Trade Name: Epoxy Hardener – Part B
Product Class / Intended End Use: Coating Auxiliary
Emergency Telephone Numbers: For emergency health, safety and environmental information call 416-252-5676 (Monday to Friday 9am-4pm est/edt)

For Emergency Transportation Information call CANUTEC at 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Acute Oral and Inhalation Toxicity	4
Serious Eye Damage	1
Skin Corrosive	1
Skin Sensitizer	1
Reproductive Toxicity	2
Hazardous to the Aquatic Environment, short term, acute	3
Hazardous to the Aquatic Environment, long term, chronic	3
Signal word:	DANGER

Hazard Statements:

- Harmful if swallowed or if inhaled
- Causes severe skin burns and eye damage
- May cause an allergic skin reaction
- Suspected of damaging fertility or the unborn child
- Harmful to aquatic life with long lasting effects

Precautionary Statements:

- Obtain special instructions before use
- Do not breathe dust/ fume /gas/ mist/ vapours/ spray
- Wash hands thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Contaminated work clothing should not be allowed out of the work place
- Avoid release to the environment
- Wear protective gloves/ protective clothing/ eye protection/ face protection

- Contact causes severe skin irritation and possible burns. May cause permanent skin damage. Allergic reactions are possible.
- May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.
- May cause severe respiratory system irritation. May cause sensitization with asthma-like symptoms in susceptible individuals.

Hazard Pictograms:



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT %
Proprietary Ingredients	TS	20 – 25
Benzyl Alcohol	100-51-6	15 - 25
Benzene-1,3-Dimethanamine	1477-55-0	25 - 35
Paratertiarybutylphenol	98-54-4	20 - 25
Phenol, 4-nonyl-, branched	84852-15-3	3 - 5

N/A = Not Available N/E = Not Established

SECTION 4: FIRST-AID MEASURES

- Eye Contact:** Immediately flush eyes with gentle flowing water for 15-20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention.
- Skin Contact:** Take off contaminated clothing. Rinse skin with soap and water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical attention if irritation develops or persists.
- Inhalation:** Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, administer oxygen. Get medical attention.
- Ingestion:** Do NOT induce vomiting. Have victim rinse mouth with water. Get immediate medical attention

Call a poison centre or doctor/physician if you feel unwell.

Most Important Symptoms and Effects (both acute and delayed):

- Harmful if swallowed. Corrosive to the gastrointestinal tract.
- Contact causes severe skin irritation and possible burns. May cause permanent skin damage. Allergic reactions are possible.
- May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.
- Repeated or prolonged inhalation may cause toxic effects.
- May cause severe respiratory system irritation. May cause sensitization with asthma-like symptoms in susceptible individuals.
- Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Immediate medical attention is required. May be harmful or fatal if swallowed.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.
- Unsuitable Extinguishing Media:** Do not use a heavy water stream as it may scatter and spread fire.
- Specific Hazards Arising from the Substance or Mixture:** Burning may produce irritation, toxic and noxious fumes.
- Special Protective Equipment and Precautions for Fire Fighters:** Move containers from fire area if possible to do without risk. Use water spray to cool fire-exposed containers. Wear self-contained breathing (SCBA) apparatus and full firefighting protective clothing.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental Precautions:

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and Materials for Containment and Clean Up:

Corrosive. Avoid personal contact and breathing vapours and mists. Small spills should be absorbed with clay, diatomaceous earth or other suitable inert absorbent. Clean up with non-sparking tools. Store spilled material in suitable, closed containers suitable for disposal. Large spills may be pumped into appropriate closed containers for recovery or disposal. After removal, flush spill area with soap and water to remove trace residue.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Use with adequate ventilation. Avoid breathing vapour, aerosol or mist. Avoid contact with eyes and skin. Do not reuse containers without proper cleaning or reconditioning.

Conditions for Safe Storage:

Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible.

Incompatibles:

Acids, strong oxidizers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
Benzene-1,3-Dimethanamine		0.1 mg/m ³		
<i>N/A = Not Available N/E = Not Established</i>				

Control Parameters:

No TLV data available on product.

Appropriate Engineering Controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactory and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Personal Protective Equipment

Eye Protection:

Use safety glasses, goggles or full face shield where required.

Skin Protection:

Use chemically impervious nitrile or neoprene gloves. Wear long sleeved protective clothing. When required, wear impervious rubber apron. The selection of personal protective equipment and clothing varies, depending upon conditions of use.

Respiratory Protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapour cartridge and dust/mist filter.

Other Considerations:

Do not breathe mist or vapour. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Ensure eyewash facilities are available.

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SECTION 9: PHYSICAL PROPERTIES

% Volatiles by Weight:	0
Auto Ignition Temperature:	Data not Available
Boiling Point:	>107 °C / >224 °F
Decomposition Temperature:	Data not Available
Explosive Limit:	Data not Available
Flammability (solid, gas):	Combustible
Flash Point (Setaflash Closed Cup):	>110 °C / >230 °F
Freezing Point:	Not Applicable
Melting Point:	Data not Available
Odour Threshold:	Data not Available
Odour:	Amine Odour
Partition Coefficient:	Data not Available
pH:	Data not Available
Physical State/Appearance:	Viscous Amber Liquid
Relative Evaporation Rate (Butylacetate=1)	Data not Available
Solubility in Water:	Nil
Specific Gravity:	1.10
Vapour Density:	Data not Available
Vapour Pressure:	Data not Available
Viscosity:	200-350 cps

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Avoid contact with incompatibles.
Chemical Stability:	Stable under normal temperatures and pressures. Will react strongly with epoxy resins especially at elevated temperatures.
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	Avoid ignition sources, heat, sparks, open flame, direct sunlight and extremely high or low emperatures. Do not use in areas without adequate ventilation.
Incompatibles:	Epoxy resins under uncontrolled conditions. Mineral acids. Organic acids. Oxidizing agents. Reactive metals. Product slowly corrodes copper, copper alloys such as bronze and brass, aluminum, zinc and galvanized surfaces. Nitrogen oxides and other toxic and acidic gasses when burned.

SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
Benzyl Alcohol	1620	Rat	Oral	>4178	Rat	Inhalation, 4h
	2000	Rabbit	Dermal			
Benzene-1,3-Dimethanamine	980	Rat	Oral		N/A	
	>3100	Rat	Dermal			
Paratertiarybutylphenol	4000	Rat	Oral	Rat, no lethal effects in saturated air. Irritant to respiratory tract.		
	2318	Rabbit	Dermal			
Phenol, 4-nonyl-, branched	1300	Rat	Oral		N/A	

N/A = Not Available N/E = Not Established

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Hazardous to the Aquatic Environment, short term, acute
VOC (g/L):	0
Persistence and Degradability:	Readily biodegradable
Bio-accumulative Potential:	No test data on mixture
Mobility in Soil:	No test data on mixture
Other Adverse Effects:	None known

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SECTION 13: DISPOSAL CONSIDERATIONS

- Handling for Disposal:** Handle waste according to recommendations in Section 7.
- Methods of Disposal:** Dispose of in accordance with federal, provincial/state and local hazardous waste laws. Do not discharge into sewage or municipal water. Do not incinerate closed containers.
- RCRA:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

DO NOT INCINERATE CLOSED CONTAINERS

SECTION 14: TRANSPORTATION INFORMATION

UN Number:	UN 2735
UN Proper Shipping Name:	Amines, liquid, corrosive, N.O.S. (Benzene-1,3-Dimethanamine)
Transport Hazard Class:	8
Packing Group:	II
Environmental Hazards:	Information not available
Special Precautions for User:	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame. Avoid static electricity.
Transport in Bulk:	Information not available.

SECTION 15: REGULATORY INFORMATION

- Canada:** All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.
- USA:**
- TSCA:** All components of this material are on the US TSCA inventory or are exempt.
 - OSHA:** This material is classified as hazardous under OSHA regulation (29CFR 1910.1200).
 - CERCLA:** Reportable quantities (RQ) (40 CFR 117.302). Data not available.
 - SARA TITLE 111:** Sec 302, extremely hazardous substances, 40 CFR 355 - Data not available
 - SARA TITLE 111:** Sec 313, toxic chemical notification, 40 CFR 372 - Data not available

SECTION 16: OTHER INFORMATION

HMS:	Health 3	Flammability 1	Reactivity 0	
NFPA:	Health 3	Flammability 1	Reactive Instability 0	Special Hazard 0

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DISCLAIMER

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END OF SAFETY DATA SHEET