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SAFETY DATA SHEET

Product Code: SM382P
Product Trade Name: 477B Fire Retardant Epoxy Coating 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 1-888-CAN-UTEC (226-8832) or 613-996-6666 or *666 from cell phone.

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Acute Toxicity - Oral	4
Acute Toxicity - Dermal	4
Eye Damage/Irritation	1
Skin Corrosion/Irritation	1B
Sensitization - Skin	1A
Reproductive Toxicity	2
Specific Target Organ Toxicity – Single Exposure	3
Acute Aquatic Toxicity	3
Chronic Aquatic Toxicity	3
Signal word:	Danger

Hazard Pictograms:



Hazard Statement(s):

- Harmful if swallowed
- Harmful in contact with skin
- Causes serious eye damage
- Causes severe skin burns and eye damage
- May cause an allergic skin reaction
- Suspected of damaging fertility or the unborn child
- May cause respiratory irritation
- Very toxic to aquatic life with long lasting effects

Precautionary Statement(s) Prevention:

- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not eat, drink or smoke when using this product
- Contaminated work clothing should not be allowed out of the workplace
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment

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Precautionary Statement(s) Response:

- **IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **Immediately call** a POISON CENTRE/doctor/physician
- **IF ON SKIN:** Call a POISON CENTRE/doctor/physician if you feel unwell
- **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower.
- Take off contaminated clothing and wash it before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- Call a **POISON CENTRE**/doctor/physician if you feel unwell
- **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing
- **IF exposed or concerned:** Get medical advice/attention
- Collect spillage

Precautionary Statement(s) Storage:

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up

Precautionary Statement(s) Disposal:

- Dispose of contents/container to an approved waste disposal plant

Other Hazards not Otherwise Classified:

- May be harmful if inhaled.

SECTION 3: COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

NAME	CAS #	EINECS #	WT %
Fatty acids, C-18-unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1	--	24.27
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	202-013-9	4.09
Bis[(dimethylamino)methyl]phenol	71074-89-0	275-162-0	1.02

SECTION 4: FIRST-AID MEASURES

- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Eye/Face Contact:** Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.
- Hand/Skin Contact:** Flush contaminated skin with plenty of water. Get medical advice/attention. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

- No information available.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- No information available.

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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Unsuitable Extinguishing Media:	Do not use a solid water stream as it may scatter and spread fire.
Specific Hazards Arising from the Substance or Mixture:	Fire may produce irritating, corrosive and/or toxic gases.
Special Protective Equipment and Precautions for Fire Fighters:	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and Materials for Containment and Clean Up:	Soak up with absorbent material and place in labeled containers for recovery or disposal. Flush area with dilute (5%) acetic acid.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.
Conditions for Safe Storage:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
General Hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
Incompatibles:	Alkalies. Strong oxidizing agents. Strong acids.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
Fatty acids, C-18-unsatd., dimers, reaction products with polyethylenepolyamines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.			
2,4,6-tris(dimethylaminomethyl)phenol	NA	NA	NA	NA
Bis[(dimethylamino)methyl]phenol	NA	NA	NA	NA
<i>NA = Not Applicable DNA = Data not Available NE = Not Estimated NR = Not Required PI – Proprietary Information</i>				

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Appropriate Engineering Controls: Showers, eyewash stations, and ventilation systems.

Personal Protective Equipment

Eye/Face Protection: Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand/Body Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin and Body Protection: Wear suitable protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General Hygiene Considerations: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

SECTION 9: PHYSICAL PROPERTIES

% Volatiles by Weight:	0
Auto Ignition Temperature:	NA
Boiling Point:	>100 °C / >212 °F
Colour:	Clear Amber
Decomposition Temperature:	DNA
Explosive Limit:	DNA
Flammability (solid, gas):	Non Flammable
Flash Point (closed cup):	149 °C / 300 °F
Freezing/Melting Point:	-20 °C / -4 °F
Odour Threshold:	DNA
Odour:	Amine
Partition Coefficient:	DNA
pH:	NA
Physical State	Liquid
Relative Evaporation Rate (N-butyl Acetate=1)	DNA
Solubility in Water:	Nil
Specific Gravity (g/L):	0.96
Vapour Density:	DNA
Vapour Pressure:	DNA
Viscosity:	Fluid

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability:	Stable at normal condition of usage.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	No data available.
Incompatibles:	Strong oxidizing agents, Strong acids, Strong acids, Strong oxidizing agents
Hazardous Decomposition Products:	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx).

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
Fatty acids, C-18-unsatd., dimers, reaction products with polyethylenepolyamines		NA			NA	
2,4,6-tris(dimethylaminomethyl)phenol	2169	Rat	Oral		NA	
Bis[(dimethylamino)methyl]phenol		NA			NA	

NA = Not Applicable DNA = Data not Available NE = Not Estimated NR = Not Required PI – Proprietary Information

Likely Routes of Exposure:	Inhalation, ingestion, skin absorption, eyes.
Symptoms/Injuries after Inhalation:	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation.
Symptoms/Injuries after Eye Exposure:	Causes serious eye damage. Adverse symptoms may include pain, watering, redness.
Symptoms/Injuries after Skin Contact:	Causes skin irritation. May cause skin burns. May cause allergic skin reaction. May be harmful if absorbed through the skin.
Symptoms/Injuries after Ingestion:	May be harmful if swallowed.
Reproductive Toxicity:	Suspected human reproductive toxicant.
Other Adverse Symptoms:	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
VOC (g/L):	0
Persistence and Degradability:	No test data on mixture.
Bio-accumulative Potential:	No test data on mixture.
Mobility in Soil:	No test data on mixture.
Other Adverse Effects:	Toxic to aquatic life with long lasting effects.

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SECTION 13: DISPOSAL CONSIDERATIONS

- Handling of Disposal:** Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- 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.

SECTION 14: TRANSPORTATION INFORMATION

UN Number:	UN2735
UN Proper Shipping Name:	Amines, Liquid Corrosive, N.O.S.
Transport Hazard Class:	8
Packing Group:	III
Environmental Hazards:	Very toxic to aquatic life with long lasting effects.
Special Precautions for User:	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame.
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

HMIS:	Health 2	Flammability 0	Reactivity 0
NFPA:	Health 2	Flammability 0	Instability Hazard 0

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DISCLAIMER

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END OF SAFETY DATA SHEET