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SAFETY DATA SHEET

Product Code: MC414N
Product Trade Name: W/B 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
Serious Eye Damage	1
Skin Corrosion / Irritation Hazard	1B
Skin Sensitizer Hazard	1A
Aquatic Environment Acute Hazard	1
Aquatic Environment Chronic Hazard	1
Signal word:	DANGER

Hazard Statements:

- Causes severe skin burns and eye damage
- May cause an allergic skin reaction
- Very toxic to aquatic life
- Very toxic to aquatic life with long lasting effects

Precautionary Statements:

- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.

Hazard Pictograms:



SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT %
1-Propoxy-2-propanol	1569-01-3	8.8
2-Propenenitrile	90530-15-7	6.0
m-Xylylenediamine	14477-55-0	1.8
<i>N/A = Not Available N/E = Not Established</i>		

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SECTION 4: FIRST-AID MEASURES

- Inhalation:** Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, administer oxygen. Get medical attention.
- Skin Contact:** Immediately take off contaminated clothing. Rinse skin with soap and water. Wash contaminated clothing before reuse. Pay particular attention to skin crevices, nail folds, etc. If skin irritation occurs, get medical attention.
- Eye Contact:** Immediate medical attention is required. Flush eyes with gentle flowing water for 10-15 minutes. Remove contact lenses if present and easy to do. Eye wash fountain should be located in immediate work area.
- Ingestion:** Immediate medical attention required. DO NOT induce vomiting. Rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person.

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

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

- Skin contact may aggravate preexisting dermatitis.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Skin contact may aggravate pre-existing dermatitis.
- Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Dry powder, alcohol-resistant foam, water spray.
- Unsuitable Extinguishing Media:** Do not use a heavy water stream or water jet.
- Specific Hazards Arising from the Substance or Mixture:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
- 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. Do not use solid water stream as it may scatter and spread the fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment and Emergency Procedures:** Use personal protective equipment. If flammable, remove all sources of ignition (flames, sparks, etc.). Provide adequate ventilation. If necessary, evacuate personnel to safe area. Avoid contact with skin, eyes and clothing.
- Environmental Precautions:** Do not allow to enter drains or waterway. Contain contaminated water/firefighting water. Avoid release to the environment.
- Methods and Materials for Containment and Clean Up:** Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations. Pick up with inert absorbent material (if possible).

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SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid release to the environment. Keep away from heat, sparks and flame. Ensure thorough ventilation of stores and work areas. Do not breathe vapors or spray mist. Handle and open container with care. Closed containers should only be opened in well-ventilated areas. Avoid contact with the skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing should not be allowed out of the workplace.

Conditions for Safe Storage:

Store in a cool, dry, well ventilated place and keep container tightly closed. Keep away from sources of ignition - refrain from smoking Segregate from acids and acid forming substances.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PeI (ppm)	
	TWA	STEL	PEL	STEL
1-Propoxy-2-propanol	N/A	N/A	N/A	N/A
2-Propenenitrile	N/A	N/A	N/A	N/A
m-Xylylenediamine	0.1 mg/m ³	N/A	N/A	N/A
N/A = Not Available N/E = Not Established				

Control Parameters:

No TLV data available on product.

Appropriate Engineering Controls:

Use only in well ventilated areas. Exhaust ventilation if used indoors on a continuous basis. Ensure eye wash fountains and safety showers are easily accessible.

Personal Protective Equipment

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.

Eye Protection:

Prevent eye and skin contact. Provide eye wash fountain and safety shower in close proximity to points of potential exposure. Tightly fitting safety goggles (chemical goggles). Wear face shield where required.

Skin Protection:

Use chemically impervious nitrile or neoprene gloves. Wear long sleeved protective clothing. When required, wear impervious rubber apron. Barrier creams may be used in conjunction with the gloves to provide additional skin protection. The selection of personal protective equipment and clothing varies, depending upon conditions of use.

Additional Advice:

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

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SECTION 9: PHYSICAL PROPERTIES

% Volatiles by Weight:	64.71
Auto Ignition Temperature:	Data Not Available
Boiling Point:	>100° C / 212 °F
Decomposition Temperature:	Data Not Available
Explosive Limit:	Data Not Available
Flammability (solid, gas):	Non Flammable
Flash Point (Setaflash Closed Cup):	Not Applicable
Freezing Point:	<0 °C / 32 °F
Melting Point:	Data Not Available
Odour Threshold:	Data Not Available
Odour:	Slight Musty
Partition Coefficient:	Data Not Available
pH:	8.5 – 9.5
Physical State/Appearance:	Clear Amber Liquid
Relative Evaporation Rate (Butylacetate=1)	Data Not Available
Solubility in Water:	Miscible
Specific Gravity:	1.03
Vapour Density:	Data Not Available
Vapour Pressure:	Data Not Available
Viscosity:	Fluid

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Avoid contact with incompatibles.
Chemical Stability:	Stable at normal condition of usage
Possibility of Hazardous Reactions:	Should not occur
Conditions to Avoid:	Avoid contact with epoxides, isocyanates. Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.
Incompatibles:	Strong oxidizing agents. Strong bases. Strong oxidizers. Isocyanates.
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides, nitrous gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
1-Propoxy-2-propanol	>2,000	Rat	Oral			
	>2,000	Rabbit	Dermal			
2-Propenenitrile	>5000	Rat	Oral			N/A
m-Xylylenediamine	930	Rat	Oral	700	Rat	Inhalation, 1h
	2000	Rabbit	Dermal			

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

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Acute Toxicity:	No test data on mixture.
No Test Data for the Mixture On:	Skin corrosion/irritation, eye damage/irritation, skin sensitization, respiratory sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT- repeated exposure, aspiration.
Likely Routes of Exposure:	Inhalation, eye contact, skin contact, ingestion.
Symptoms/Injuries after Inhalation:	Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs.
Symptoms/Injuries after Eye Contact:	Causes severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause moderate corneal injury. Vapour may cause corneal injury.
Symptoms/Injuries after Skin Contact:	Causes severe skin burns and eye damage. Prolonged contact may cause more severe irritation with discomfort or pain, local redness and swelling, possible skin destruction. Avoid contact with skin.
Symptoms/Injuries after Ingestion:	Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
VOC (g/L):	213
Persistence and Degradability:	This material is not readily biodegradable. This material may cause long-term adverse effects in the environment. This substance may be highly toxic to aquatic organisms.
Bio-accumulative Potential:	No test data on mixture.
Mobility in Soil:	No test data on mixture.
Other Adverse Effects:	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for Disposal:	Handle waste according to recommendations in Section 7.
Methods of Disposal:	Contact waste disposal services. Dispose of in accordance with federal, provincial/state and local hazardous waste laws. Do not discharge into sewage or municipal water.
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:	Non Regulated.
UN Proper Shipping Name:	Non Regulated.
Transport Hazard Class:	Non Regulated.
Packing Group:	Non Regulated.
Environmental Hazards:	Marine Pollutant
Special Precautions for User:	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame. Toxic to aquatic life.
Transport in Bulk:	Information not available.

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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 3	Flammability 0	Physical hazard 0	
NFPA:	Health 3	Flammability 0	Reactive Instability 0	Special Hazard 0

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DISCLAIMER

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END OF SAFETY DATA SHEET