

PMC WATER SYSTEMS SERVICES INC. 124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

TEL 905 669 8262, FAX 905 669 8252, EMAIL pmcwater@aol.com, www.pmcwatersystems.com

MATERIAL SAFETY DATA SHEET B-3201-HX



MATERIAL IDENTIFICATION AND USE

- Manufacturer's Name Manufacturer's Address Manufacture's Phone # 24 Emergency Phone # Product Identifier Product Use WHMIS Class TDG Class
- PMC Water Systems Services Inc.
- : 124 Connie Crescent, Unit 9, Concord, ON L4K 1L7
 - (905) 669-8262
- : Canutec (613) 996-6666
- : B-3201-HX

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- Water Treatment
- [D2B] Poisonous, [E] Corrosive
- : Corrosive Liquid, Flammable NOS, Class 8 (3), UN 2920, PG II

HAZARDOUS INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Morpholine	15-30%	110-91-8	1913 mg/kg (rat)	20 ppm (skin)
Cyclohexylamine	15-30%	108-91-8	156 mg/kg (rat)	TLV 10 ppm

The remaining ingredients are not classified as hazardous according to the DSL.

PHYSICAL DATA FOR PRODUCT

Physical State	:	Liquid
Odour and Appearance	:	Fishy Amine Odour, Amber Liquid
Odour Threshold	:	No Data Available
Specific Gravity (Water = 1)	:	0.90 - 0.92 g/cc
Vapour Pressure (mmHg)	:	No Data Available
Vapour Density (Air = 1)	:	No Data Available
Evaporation Rate	:	No Data Available
Boiling Point	:	127° to 134°C, 260.6° to 273.2°F
Freezing Point	:	-5° to -18°C, 23°F to4°F
рН	:	10.5 (1% Solution)
Coefficient Water/Oil Distribution	:	No Data Available

FIRE AND EXPLOSION HAZARD OF PRODUCT

Flash Point And Method of Determination	:	31°C, 87.8°F
Conditions of Flammability	:	Not Flammable
Means of Extinction	:	Use carbon dioxide or dry chemical
Upper Explosion Limit	:	No Data Available
Lower Explosion Limit	:	No Data Available
Auto-Ignition Temperature	:	No Data Available
Hazardous Combustion Products	:	When product is involved in a fire, fire fighters should wear full protective clothing and self-contained breathing apparatus if exposed to vapours or products of combustion.

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REACTIVITY DATA

Stability
Incompatible Materials
Conditions of Reactivity
Hazardous Decomposition Products

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Oxidizers,	strong acid	s, all coppe	r alloys, lead	and oxides	of nitrogen
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- Not Applicable
- Nitrogen and Carbon Oxides

TOXICOLOGICAL PROPERTIES

Routes of Entry		
Skin Contact	:	-
Skin Absorption	:	Yes
Eye Contact	:	Yes
Ingestion	:	Yes
Inhalation	:	Yes
Acute or Over Exposure Effects	:	Irritant to eyes, lungs and skin. Poison by ingestion.
Chronic Exposure Effects	:	Dermatitis, irritation of respiratory tract
Exposure Limit	:	TLV-TWA 20 ppm Morpholine, TLV-TWA 10 ppm Cyclohexylamine
Irritancy	:	Slight to Moderate
Sensitization	:	Skin
Carcinogenicity	:	Not Applicable (ACGIH 1987-88)
Teratogenicity	:	Possible
Mutagenicity	:	Possible
Reproductive Effects	:	Possible

PREVENTATIVE MEASURES

Personal Protective Equipment	:	Use rubber gloves, goggles or face shield.
Respiratory Protection	:	NIOSH approved respirator if TLV is exceeded.
Ventilation Requirements	:	Normal room ventilation
Spill and Leak Procedures	:	Eliminate all sources of ignition. Remove to a sealable container for disposal.
Storage Requirements	:	Keep container closed when not in use. Store away from heat sparks or fire. Store in a
		ventilated area.

FIRST AID MEASURES

Flush eyes with abundant water. Rinse skin with soap and water. In case of ingestion, do not induce vomiting. Call a physician. In case of discomfort by vapour, move to a ventilated area. If breathing has stopped, administer artificial respiration. Call a physician.

PREPARATION INFORMATION

Prepared By:Lab Services
PMC Water Systems Services Inc.
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While all the data presented is believed to be accurate at the time of preparation, PMC Water Systems Services Inc. makes no warranty; the data is offered for your consideration, investigation and verification.