

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

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# MATERIAL SAFETY DATA SHEET B-3228

**Protection Required** 



## MATERIAL IDENTIFICATION AND USE

Manufacturer's Name : PMC Water Systems Services Inc.

Manufacturer's Address : 124 Connie Crescent, Unit 9, Concord, ON L4K 1L7

**Manufacture's Phone #** : (905) 669-8262

**24 Emergency Phone #** : Canutec (613) 996-6666

Product Identifier : B-3228

Product Use : Water Treatment/Return-Line Protection

WHMIS Class : [B2] Flammable, [D1B] Poisonous, [E] Corrosive

TDG Class : Corrosive Liquid, Flammable NOS, Class 8 (3), UN 2920, PG II

## HAZARDOUS INGREDIENTS OF MATERIAL

Cyclohexylamine 20-50% 108-91-8 156 mg/kg (rat) 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 AvailableSpecific Gravity (Water = 1):0.90 - 0.93 g/ccVapour Pressure (mmHg):No Data AvailableVapour Density (Air = 1):No Data AvailableEvaporation Rate:No Data Available

**Boiling Point** : 127° to 134°C, 260.6° to 273.2°F **Freezing Point** : -5° to -18°C, 23°F to -.4°F

pH : 10 (1% Solution)
Coefficient Water/Oil Distribution : No Data Available

## FIRE AND EXPLOSION HAZARD OF PRODUCT

Flash Point And Method of : 31°C, 87.8°F

**Determination** 

**Conditions of Flammability** : Not Flammable

Means of Extinction : Use carbon dioxide or dry chemical

Upper Explosion Limit:No Data AvailableLower Explosion Limit:No Data AvailableAuto-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.

# **REACTIVITY DATA**

Stability : Stable

Incompatible Materials : Oxidizers, strong acids, all copper alloys, lead and oxides of nitrogen

Conditions of Reactivity : Not Applicable

**Hazardous Decomposition Products**: Nitrogen and Carbon Oxides

## TOXICOLOGICAL PROPERTIES

**Routes of Entry** 

Skin Contact:-Skin Absorption:YesEye Contact:YesIngestion:YesInhalation: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. Ventilate. Contain the spill and absorb with an intert

material. 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

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 Date Prepared
 : July 14, 2013

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.