

# 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 C-3410



# **SECTION 1 - 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 : C-3410

Product Use : Water Treatment

## SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

IngredientsConcentrationCAS #LD50LC50Aqueous solution of 2-Bromo-2-8 - 13%52-51-73245 mg/kg (oral - rat)No Data Available

NitroPropane-1,3 - Diol

# **SECTION 3 – HAZARDS IDENTIFICATION**

Potential Health Effects Signs and Symptoms of Short-Term (Acute) Exposure Eyes May cause irritation including stinging or burning.

SkinMay cause irritation with contact.InhalationMay cause irritation of respiratory tract.

**Ingestion** Harmful if swallowed.

# **SECTION 4 – FIRST AID MEASURES**

**Eye Contact** Immediately irrigate with water for at least 10 minutes and obtain medical attention.

**Skin Contact** Remove contaminated clothing. Swab affected skin with water or soap and water. If irritation develops, obtain

medical attention.

Inhalation Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult,

give oxygen. Seek medical attention if difficulties persist.

**Ingestion** If swallowed, wash out mouth thoroughly with water; give water to drink. Obtain medical attention.

## **SECTION 5 - FIRE FIGHTING MEASURES**

Flammability Maximum temperature of 90°C recommended to avoid risk of self heating and rapid decomposition. NOTE:

Mixing of this substance with other substances may influence thermal instability.

Flash Point Not Available Autoignition Not Available

**Temperature** 

Means of Extinction Water spray, foam, carbon dioxide and dry chemical powder are suitable extinguishing agents.

Special Firefighting BNPD (100%) will burn in air producing toxic gases. Self-contained breathing apparatus should be provided

**Procedures/Equipment** for firemen fighting fires in confined spaces. Hydrogen bromide and oxides of nitrogen

**Products** 

**HMIS Ratings** Health 1, Flammability 0, Reactivity 0

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions Environment Precaution Spill Response/Cleanup Wear appropriate personal protective equipment if required. Ventilate area.

**Environment Precautions** Prevent spilled product from entering enter drains, sewers, waterways or confined spaces.

Immediately contain with physical barriers and/or absorbents and remove the spillage. Clean the area with

detergent and water.

# **SECTION 7 – HANDLING AND STORAGE**

Handling Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Where there is a risk of personal

contact, protective clothing including goggles and gloves must be worn.

Storage Requirements Store below 25°C away from oxidizing materials, heat and sources of ignition and food, drink and animal

feeding stuffs. Avoid contact with metals. Avoid freezing

# SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation** Occupational Exposure Limits: in-house workplace exposure level is 5 mg/m<sup>3</sup>. Ensure good general and local

ventilation.

**Respiratory Protection** Use an approved respirator with appropriate dust/mist cartridges.

Skin Protection

Eye/Face Protection
Other Comments

Where there is a risk of personal contact, protective clothing including goggles and gloves must be worn.

Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled.

An eyewash station and safety shower should be available

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Physical State : Liquid

Odour and Appearance : Faint characteristic odour; colourless to pale yellow liquid

Odour Threshold : Not Available

Specific Gravity (Water = 1) : 1.09

 Vapour Pressure (mmHg)
 : Not available

 Vapour Density (Air = 1)
 : Not available

 Evaporation Rate
 : Not available

 Boiling Point
 : 100°C, 212°F

 Freezing/Boiling Point
 : About 0°C

 pH
 : Not greater than 7

 Weter/Oil Distribution Coefficient
 : Not available

Water/Oil Distribution Coefficient : Not available Solubility in Water : Soluble

## **SECTION 10 – STABILITY AND REACTIVITY**

Stability/Reactivity Stable at normal temperatures, but when evaporated to dryness and the resulting solid BNPD heated above

140°C the solid decomposes exothermically liberating toxic hydrogen bromide and oxides of nitrogen and swelling up to give a sticky, tarry mass which burns readily in a fire. The decomposition temperature is significantly lowered in the presence of inorganic or organic bases to an extent proportional to the amount

of base present.

Conditions for Instability 130°C decomposes. In the presence of base, the onset of decomposition occurs at lower temperatures.

Incompatible Materials
Hazardous Decomposition

Aqueous solutions react with aluminum and, to some extent, with iron.

Excessive heat and burning may release oxides of carbon and nitrogen

**Products** 

**Hazardous Polymerization** Will not occur

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Routes of Entry** 

 Skin Contact
 : Causes mild skin irritation.

 Eye Contact
 : Causes eye irritation.

 Ingestion
 : Harmful if swallowed

Inhalation : Inhalation of mists may cause irritation or corrosion of mucous membranes and the lungs.

**Chronic Exposure Effects**: Repeated or prolonged skin contact may cause irritation and superficial burns.

Irritancy:Slightly irritating by inhalation or contact with skin and eyes.Sensitization:Slightly irritating by inhalation or contact with skin and eyes.

Carcinogenicity:Not AvailableTeratogenicity:Not AvailableMutagenicity:Not AvailableReproductive Effects:Not Available

## **SECTION 12 – ECOLOGICAL INFORMATION**

**General Comments** No biodegradability or environmental effects data is available.

# **SECTION 13 – DISPOSAL CONSIDERATIONS**

Waste Disposal Disposal Dispose in accordance with federal, provincial or local government requirements. Contact your local,

provincial or federal environmental agency for specific regulations. Burn in a licensed incinerator fitted with an after burner and efficient scrubbing device or bury in a licensed landfill site, in accordance with local regulations and the Pollution Control Act. Empty containers should not be re-used, but disposed of

as hazardous waste.

# **SECTION 14 – TRANSPORT INFORMATION**

TDG Shipping Regulations Not TDG Regulated

## **SECTION 15 – REGULATORY INFORMATION**

WHMIS Classification Not WHMIS regulated

Domestic Substances List All ingredients are listed on the DSL or are not required to be listed.

## **SECTION 16 – OTHER INFORMATION**

Prepared by: Lab Services

PMC Water Systems Services Inc. 124 Connie Crescent, Unit 9 Concord Ontario L4K 1L7

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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.