

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

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# MATERIAL SAFETY DATA SHEET SCALE CLEAN 100

**Protection Required** 







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# **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

Water Treatment

Manufacture's Phone # (905) 669-8262

24 Emergency Phone # Canutec (613) 996-6666 **Product Identifier** Scale Clean 100 **Product Use** 

# SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

**Ingredients** Concentration CAS#  $LD_{50}$ LC50 urea, monohydrochloride 60-100% 506-89-8 1121 mg/kg (oral - rat) Not Available

# **SECTION 3 – HAZARDS IDENTIFICATION**

**Emergency Overview** WARNING! CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY

CAUSE RESPIRATORY TRACT IRRITATION.

May be harmful if swallowed. Severely irritating to the eyes and skin. Slightly irritating to the respiratory system. Do not ingest. Do not get in eyes. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use.

Wash thoroughly after handling.

**Eye Contact** Severely irritating to eyes. Risk of serious damage to eyes.

**Skin Contact** Severely irritating to the skin.

Inhalation Slightly irritating to the respiratory system. Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

**Ingestion** Harmful if swallowed.

**Chronic Effects** Adverse symptoms may include the following: respiratory tract irritation: coughing, skin irritation and redness,

eye pain or irritation, watering, redness

# SECTION 4 – FIRST AID MEASURES

**Eye Contact** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes,

occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin Contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get

medical attention immediately.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs,

provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or

waistband. Get medical attention immediately.

**Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never

give anything by mouth to an unconscious person. Get medical attention immediately.

**Protection of first-**No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the

aiders

person providing aid to give mouth-to-mouth resuscitation.

**Notes to Physician** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may

need to be kept under medical surveillance for 48 hours.

# SECTION 5 - FIRE FIGHTING MEASURES

**Flammability** In a fire or if heated, a pressure increase will occur and the container may burst.

ScaleClean 100 www.pmcwatersystems.com **Flash Point** Not Applicable Autoignition Not Applicable **Temperature** 

**Extinguishing Media** Use an extinguishing agent suitable for the surrounding fire.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire-**Special Procedures** 

fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a

When involved in a fire, this product may generate hydrogen chloride, nitrogen oxides, carbon monoxide,

full face-piece operated in positive pressure mode.

**Hazardous Combustion** 

**Products** 

hydrogen bromide, or bromine, carbon dioxide, nitrogen and irritating/toxic fumes and gases.

**Decomposition Products Special Fire Hazards** 

Carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds Non-flammable but will burn on prolonged exposure to flame or high temperature. Flammable hydrogen gas

may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk

through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate

respirator when ventilation is inadequate. Put on appropriate personal protective equipment. **Environment 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).

Spill Response/Cleanup Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed

as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal. Dispose of via a licensed waste disposal contractor. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide.

Contaminated absorbent material may pose the same hazard as the spilled product.

## SECTION 7 – HANDLING AND STORAGE

Handling Put on appropriate personal protective equipment (see section 8). 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. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be

hazardous. Do not reuse container.

**Storage Requirements** Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from

incompatible materials, food and drink. Separate from alkalis. Keep container tightly closed and sealed until

ready for use. Use appropriate containment to avoid environmental contamination.

# SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process

enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne

contaminants below any recommended or statutory limits.

**Respiratory Protection** Use a properly fitted, air-purifying or air-fed respirator if a risk assessment indicates this is necessary.

**Skin Protection** Chemical-resistant, impervious gloves. Protective clothing **Eye/Face Protection** Splash goggles

**Other Comments** An eyewash station and safety shower should be available

**General Hygiene** Wash hands thoroughly with soap and water after handling this product and before eating, drinking or using

tobacco. Wash contaminated clothing before reuse.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Liquid

**Odour and Appearance** Odour not available; clear

**Odour Threshold** Not Available **Specific Gravity (Water = 1)** Not Available Vapour Pressure (mmHg) Not Available Vapour Density (Air = 1)Not Available

**Evaporation Rate** 0.36 (water) compared with Butyl acetate.

**Boiling Point** 100°C, 212°F **Freezing Point** <0°C, 32°F pН 1.5 [Acidic]

**Coefficient Water/Oil Distribution** 

Not Applicable **Solubility in Water** 

Easily soluble in cold water, hot water, methanol and acetone. Soluble in diethyl ether.

Insoluble in n-octanol.

## SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity Stable

**Incompatible Materials** Attacks many metals producing extremely flammable hydrogen gas which can form explosive

mixtures with air. Reactive or incompatible with the following materials: alkalis

**Conditions of Reactivity** Non-flammable but will burn on prolonged exposure to flame or high temperature. Flammable

hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead

and zinc.

**Hazardous Decomposition Products** 

Should not be produced under normal conditions of storage and use.

**Hazardous Polymerization** 

Will not occur under normal conditions.

## SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry Dermal contact. Eye contact. Inhalation. Ingestion.

**Skin Contact** Corrosive. Cause skin burns.

**Eye Contact** Corrosive. Causes serious eye damage

**Ingestion** Harmful if swallowed. **Inhalation** Causes respiratory irritation

None know. **Chronic Exposure Effects** Not Available **Exposure Limit** 

**Irritancy** Severely irritating to the eyes and skin. Slightly irritating to the respiratory system.

Carcinogenicity No Data Available **Teratogenicity** No Data Available Mutagenicity No Data Available **Reproductive Effects** No Data Available

## **SECTION 12 – ECOLOGICAL INFORMATION**

**General Comments** No known significant effects or critical hazards.

# SECTION 13 – DISPOSAL CONSIDERATIONS

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

## SECTION 14 – TRANSPORT INFORMATION

**Shipping Regulations** UN 3265, Corrosive Liquid, Acidic, Organic, N.O.S. (urea, monohydrochloride), Class 8, PG II

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

## SECTION 15 – REGULATORY INFORMATION

**WHMIS Classification** Class E: Corrosive Material

## **SECTION 16 – OTHER INFORMATION**

Prepared by Lab Services

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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.