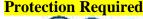


PMC WATER SYSTEMS SERVICES INC. 124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

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

MATERIAL SAFETY DATA SHEET C-2007









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-2007

Product Use : Water Treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

IngredientsConcentrationCAS #LD50LC50Potassium Hydroxide8-12%1310-58-3800 mg/kg (oral - rat)No Data Available

SECTION 3 – HAZARDS IDENTIFICATION

Acute Health Effects Caution: potassium hydroxide burns can be painless and may not warn of dangerous injury

Eye Contact Corrosive to eye tissue and may cause severe damage and blindness.

Skin Contact Corrosive. May cause moderate skin irritation. May cause skin burns. Prolonged contact with dilute solutions or

dust of potassium hydroxide has a destructive effect on tissue.

Inhalation Causes severe respiratory irritation. Inhalation of dust may cause coughing and sneezing. High concentrations

can cause lung damage.

Ingestion May cause burns of the mouth, throat and stomach. May cause pain, nausea, vomiting and diarrhea. Severe

scarring of tissue and death may result.

Chronic Health Effects Repeated or prolonged contact with spray mist may produce chronic eye irritation, severe skin irritation and

respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic

material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 4 – FIRST AID MEASURES

Eye Contact Flush eyes with gently flowing water for at least 15 minutes or until the chemical is removed, while holding the

eyelid(s) open. Take care not to rinse the contaminated water into the unaffected eye or face. Seek immediate

medical attention.

Skin Contact Immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove

contaminated clothing and launder before reuse.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention immediately.

Ingestion Seek immediate medical attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious

or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. If breathing has stopped, trained personnel should begin artificial respiration (AR) immediately. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately.

Notes to Physician NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this

is greater than the risk of poisoning through absorption of this product. Moreover, this product can damage the esophagus on the way down and will cause further damage in the reverse direction! The stomach should be

emptied under medical supervision after the installation of an airway to protect the lungs.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability
Not Flammable
Flash Point
Not Applicable
Autoignition
Temperature
Not Applicable

Extinguishing Media Does not burn. Use extinguishing media appropriate for surrounding fire. Water is not recommended, but may

be applied in large quantities as a fine spray when other extinguishing agents are not available.

Special Firefighting Procedures/Equipment

Evacuate nonessential personnel from fire area. Product reacts with water, possibly violently. Reaction may produce heat and/or gases. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Contact with some metals (particularly magnesium, aluminum and galvanized zinc) can rapidly generate hydrogen. Fire fighters must wear full face, positive pressure, self-contained breathing

apparatus and appropriate protective clothing.

Explosion Data Not Applicable

Hazardous Combustion Potassium oxide, peroxides, carbonates may form in fire

Products

NFPA Ratings Health 3, Flammability 0, Instability 1 HMIS Ratings: Health 3, Flammability 0, Reactivity 1

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions Safety eye googles. Wear protective clothing and equipment.

Environment Precautions Avoid discharge to natural waters and sewers.

Spill Response/Cleanup Isolate hazard are and restrict access. Stop leak if without risk. Dike and contain spill with inert material (sand,

earth, etc.) and transfer liquid and solid separately to containers for recovery or disposal. Neutralize with lime

or soda ash. Sweep or shovel material into waste container. Flush residue with water.

SECTION 7 – HANDLING AND STORAGE

Handling Corrosive material. Avoid contact with eyes, skin and clothing. Do not ingest. Do not inhale vapour or mist.

Use appropriate personal protective equipment. Use with adequate ventilation. Handle in accordance with good industrial hygiene and safety practices. Keep containers closed when not in use. Empty product

containers may contain residue. Follow label warnings even after container is emptied.

container to prevent moisture absorption and/or contamination. Place away from incompatible materials.

Product has a shelf life of 24 months. Storage Temperature: >16°C (>60.8°F).

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Good general ventilation should be sufficient for most conditions.

Respiratory Protection Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required

for certain operations, use a NIOSH approved air-purifying respirator.

Skin Protection Polyethylene, neoprene or natural rubber gloves, impervious footwear, rubber safety boots.

Eye/Face Protection Chemical safety googles; face shield.

Other Comments An eyewash station and safety shower should be available

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Potassium Hydroxide	2 mg/m3 Ceiling	2mg/m ³ ceiling	

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid

Odour and Appearance : Odourless; colourless to slight yellow

Odour Threshold:Not AvailableSpecific Gravity (Water = 1):1.16 to 1.19 g/ccVapour Pressure (mmHg):Not AvailableVapour Density (Air = 1):Not AvailableEvaporation Rate:Not AvailableBoiling Point:110° C, 230° FFreezing/Melting Point:-2° C, 28.4° F

PH : 10.5 – 13 (1% solution)

Coefficient Water/Oil Distribution : Not Applicable

Solubility in Water : Soluble

SECTION 10 - STABILITY AND REACTIVITY

Stability/Reactivity Stable

Conditions for Instability Heat, water, moisture or humidity.

Incompatible Materials Reacts violently with many chemicals including: water, organic acids, inorganic acids, oxidizing agents

and glycols. Corrosive to alloys of aluminum, zinc, tin and copper releasing hydrogen. Damages leather, wool and some other textiles. Contact with water causes violent frothing and spattering. Flammable hydrogen may be generated from contact with metals such as: aluminum, brass, tin, zinc. Avoid contact with acids, halogenated organics, organic nitro compounds, glycols. Caustic soda solution reacts readily with various reducing sugars (fructose, galactose, maltose, dry whey solids) to produce carbon monoxide.

Hazardous Decomposition Oxides of potassium

Products

Hazardous Polymerization Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry: Eyes. Respiratory system. Skin. Gastro-intestinal tract.

Skin Contact : Brief contact may cause severe skin burns

Eye Contact : Causes severe burns. Small quantities can result in permanent damage and/or loss of vision

Ingestion: Can cause severe burns to mouth, esophagus and stomachInhalation: Can cause damage to upper respiratory tract and lung tissue

Chronic Exposure Effects: Chronic skin contact with low concentrations may cause dermatitis.

Irritancy:IrritantSensitization:Not AvailableCarcinogenicity:Not AvailableTeratogenicity:Not AvailableMutagenicity:Not AvailableReproductive Effects:Not Available

SECTION 12 - ECOLOGICAL INFORMATION

General Comments Toxic to aquatic life. May increase pH of waterways and adversely affect aquatic life.

SECTION 13 – DISPOSAL CONSIDERATIONS

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

provincial or federal environmental agency for specific regulations.

SECTION 14 – TRANSPORT INFORMATION

TDG Shipping Regulations UN 1730, Corrosive Liquid, N.O.S. (Potassium Hydroxide), Class 8, PG III

SECTION 15 - REGULATORY INFORMATION

WHMIS Classification CLASS D2B: Toxic Material

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

Preparation Date: November 24, 2015

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.