

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 KBAC-1000

Protection Required







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 : KBAC-1000
Product Use : Water Treatment

SECTION 2 – COMPOSITION/INGREDIENTS OF MATERIAL

SECTION 3 – HAZARDS IDENTIFICATION

Emergency overview

Irritating to eyes and skin.

Toxic if swallowed.

Avoid contact with the skin, eyes and clothing.

Avoid ingestion.

Avoid all sources of ignition: heat, sparks, open flame.

Eye wash fountains and safety showers must be easily accessible.

Wash thoroughly after handling.

Wear NIOSH-certified chemical goggles. Wear chemical resistant protective gloves.

SECTION 4 – FIRST AID MEASURES

Eye Contact Immediately irrigate with water for at least 15-20 minutes, remove contact lenses after the first 5 minutes and

obtain medical attention.

Skin Contact Remove contaminated clothing; wash clothing before reuse. Rinse for 15-20 minutes, wash affected skin with

water or soap and water. If irritation develops, obtain medical attention.

Inhalation Move person to fresh air. If issues arise, call 911, give artificial respiration. Obtain medical attention.

Ingestion If swallowed, wash out mouth thoroughly with water; can sip water to drink. Do not induce vomiting unless

advised to do so by medical staff. Obtain medical attention.

General advice First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious,

place and transport in recovery position. Immediately remove contaminated clothing.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Not highly flammable
Flash Point Not Applicable
Autoignition Not self-igniting

vapors may be released during fire-fighting operations, wear self-contained breathing apparatus.

Special Procedures Firefighters should wear full protective clothing including self-contained breathing equipment. Avoid whirling up the material/product because of the danger of dust explosion. Dusty conditions may ignite explosively in

the presence of an ignition source causing flash fire.

Hazardous Combustion Products BNPD Note When involved in a fire, this product may generate hydrogen chloride, nitrogen oxides, carbon monoxide, hydrogen bromide, or bromine, carbon dioxide, nitrogen and irritating/toxic fumes and gases.

Stable at normal temperatures, but when 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.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions Environment Precautions Spill Response/Cleanup Wear appropriate protective equipment. Forms slippery surfaces with water.

Environment Precautions Ensure spilled product does not enter sewers or streams.

Contain spilled material. Sweep and scoop all spilled material, contaminated soil and other contaminated material and place into clean dry containers for disposal. Do not close containers containing wet or damp material; containers should be left open to disperse any hazardous gases that may form. Do not use floor sweeping compounds to clean up spills. Product is a solid stick can be picked up with hands while wearing gloves or if in broken pieces shovel or sweep up waste into approved container. Wear prescribed protective clothing and equipment. If spill is for treated fluids then isolate area. Protect the environment, this is a biocide; prevent fluids from entering soil, ditches and natural waterways. Follow label instructions on the containers and follow local, state, provincial and/or federal regulations for disposal.

SECTION 7 – HANDLING AND STORAGE

Handling Use proper PPE. Work in well-ventilated area. Avoid open packaging. Avoid dust formation. Dust in

sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Users should wash hands before eating, drinking, chewing gum, using tobacco or

using the toilet.

Storage Requirements Keep container tightly closed when not in use. Store in cool location and away from all foods and animal

feeds. Avoid all sources of ignition: heat, sparks and open flame. This product is corrosive to mild steel.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Respiratory Protection Skin Protection Eye/Face Protection Other Comments General Hygiene Use only in well ventilated areas. Use local exhaust if mist or spray is generated. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Chemical resistant gloves; chemical resistant clothing to prevent prolonged skin contact

Safety eye wear (face shield, glasses or goggles)

An eyewash station and safety shower should be available

Wash hands thoroughly with soap and water after handling this product and before eating, drinking or using tobacco. Discard clothing or other absorbent material that may have been heavily contaminated with the product's concentrate. Remove lightly contaminated clothing and wash separately from other laundry using detergent and hot water before re-use. Wash contaminated clothing before reuse.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid crystalline

Odour and Appearance : Odourless; white or yellow, solid stick

Odour Threshold:No Data AvailableSpecific Gravity (Water = 1):No Data AvailableVapour Pressure (mmHg):0.000051 hPa (20°C)Vapour Density (Air = 1):1.905 g/cm3 (20°C)Evaporation Rate:Not Applicable

Boiling Point/Melting Point : 128-132°C; 262-270°F (melting point)

Freezing Point : Not Applicable
pH : 5 - 7 (10 g/l, 20°C)
Coefficient Water/Oil Distribution : Not Determined

Solubility in Water : 28% (m/v) @ 23°C, 73°F fresh water

SECTION 10 – STABILITY AND REACTIVITY

Stability/Reactivity Incompatible Materials Stable under normal conditions and recommended use. Will react with oxidizing materials. Avoid contact with bases, amines and oxidizing material. Corrosive to some metals including mild steel. Avoid all sources of ignition, heat sparks and open flame. Avoid dust formation.

Conditions of Reactivity Avoid maximum temperature of 90°C to prevent self-heating and rapid decomposition. May

violently decompose at 140°C.

Hazardous Decomposition Products Nitrogen oxides, bromine compounds, oxides of carbon, oxides of sulfur, oxides of phosphorus,

halogenated compounds and metal oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

Effects of Acute Exposure

Skin Contact : Of moderate toxicity after short-term skin contact. Corrosive. Cause skin burns.

Eye Contact: Corrosive. Causes serious eye damageIngestion: Of moderate toxicity after single ingestion.Inhalation: Virtually nontoxic by inhalation.

Chronic Exposure Effects : Causes respiratory irritation

Exposure Limit : None know.

Irritancy: May cause severe damage to the eyes. Irritating to respiratory system and skin.

Carcinogenicity: No component of this product present at levels greater than 0.1% is identified as probable,

possible or confirmed human carcinogen by IARC and OSHA.

Teratogenicity : No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Mutagenicity : No indications of a developmental toxic / teratogenic effect were seen in animal studies.

The substance was mutagenic in a mammalian cell culture test system. No mutagenic

effect was found in various tests with bacteria and mammals.

Reproductive Effects: The results of animal studies gave no indication of a fertility impairing effect.

SECTION 12 - ECOLOGICAL INFORMATION

General Comments Very toxic (acute effect) to aquatic organisms. Toxic to aquatic life with long lasting effects. Do not allow

product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public

waterways.

Degradability/Persistence Moderately/partially eliminated from water. Readily biodegradable

Bioaccumulation Due to the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be

expected.

Mobility in soil

The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase

is not expected.

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORT INFORMATION

Shipping Regulations UN 3241, 2-Bromo-2-Nitropropane-1,3-diol), Class 4.1, PG III Domestic Substances List All ingredients are listed on the DSL or are not required to be listed.

SECTION 15 - REGULATORY INFORMATION

WHMIS Classification Class B4: Flammable Solid

Class D1B: Toxic Material

SECTION 16 – OTHER INFORMATION

Prepared by Lab Services

PMC Water Systems Services Inc. 124 Connie Crescent, Unit 9 Concord, ON 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.