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**FOR CHEMICAL EMERGENCY**

Involving Shipping and Handling Spills, Leak, Fire, Exposure or Accident

Call CHEMTREC 1-800-424-9300

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

**Section 1 - Product Identification**

Product Name: BLC® Beverage System Cleaner, all sizes

Product ID: 3100X

**Section 2 - Composition/Information on Ingredients****CHEMICAL NAME**

Potassium Hydroxide

**CAS REG. #**

1310-58-3

Nonylphenol polyethylene glycol ether

127087-87-0

Silicic acid

6834-92-0

*Other ingredients are judged to be non-hazardous, their CAS numbers and their exact percent of composition are proprietary to National Chemicals, Inc.***Section 3 - Hazards Identification****EMERGENCY OVERVIEW:** DANGER! Corrosive. Can cause burns to the respiratory tract, skin, eyes and gastrointestinal tract. Can cause permanent eye damage. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. Keep container tightly closed. Wash thoroughly after handling. Use only with adequate ventilation.**INHALATION:** Inhalation will cause severe irritation, possible burns with pulmonary edema, which may lead to pneumonitis.**SKIN CONTACT:** Skin contact with this material may cause severe irritation and corrosion of tissue.**EYE CONTACT:** Eye contact can cause severe irritation, corrosion with possible corneal damage and blindness.**INGESTION:** Ingestion may cause irritation, corrosion/ulceration, nausea, and vomiting.**CHRONIC EFFECTS:** Due to long-term exposure, material may cause dermatitis on the skin, or recurrent corneal ulceration and visual disturbances. In rare cases, long-term inhalation causes bronchial inflammatory reaction or obstructive airway dysfunction.**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** respiratory system (including asthma and other breathing disorders)**Section 4 - First Aid Measures**

GET MEDICAL ATTENTION IMMEDIATELY.

**EYES:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness.**SKIN:** Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods.**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer CPR.**INGESTION:** Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops.**NOTE TO PHYSICIAN:** The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage.**Section 5 - Fire Fighting Measures****FLASH POINT:** Not flammable**FIRE AND EXPLOSION HAZARDS:** Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. May react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which can form explosive mixtures in air.**EXTINGUISHING MEDIA:** Use extinguishing agents appropriate for surrounding fire.**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Cool containers with water. Wear NIOSH approved positive-pressure self-contained breathing apparatus. Avoid contact with skin.**Section 6 - Accidental Release Measures****SPILL CLEANUP:** Wear appropriate personal protective equipment recommended in Section 8 of the MSDS. Completely contain spilled material with dikes, sandbags, etc. Flush spill area with plenty of water to dilute before introducing it to the sewers. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Large releases should be reported, if required, to appropriate agencies.

**Section 7 - Handling and Storage**

**HANDLING:** Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. When mixing, slowly add to water to minimize spattering.

**STORAGE:** Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines. Keep separated from incompatible substances (see Section 10 of the MSDS).

**Section 8 - Exposure Controls and Personal Protection**

**ENGINEERING CONTROLS:** Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

**EYE/FACE PROTECTION:** Wear chemical goggles. Use a face shield if splashing is possible.

**SKIN:** Use impervious gloves (rubber or neoprene). Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Always place pants legs over boots. Thoroughly clean and dry contaminated clothing before reuse.

**RESPIRATORY:** If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations.

**EXPOSURE LIMITS:** Potassium Hydroxide 2 mg/m<sup>3</sup> ACGIH ceiling)

**Section 9 - Physical and Chemical Properties**

**APPEARANCE AND ODOR:** Clear, odorless liquid

**FLASH POINT:** Not flammable

**BOILING POINT:** 200° F (102-143° C)

**FREEZING POINT:** 32° F (0° C)

**VAPOR PRESSURE:** Not available

**VAPOR DENSITY:** Not available

**pH:** Alkaline in solution

**Section 10 - Stability and Reactivity**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Mixing with water, acid or incompatible materials may cause splattering and release of large amounts of heat.

**INCOMPATIBLE MATERIALS:** acids, flammable liquids, halogenated compounds, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

**POLYMERIZATION:** Will not occur

**HAZARDOUS DECOMPOSITION:** None known

**Section 11 - Toxicological Information**

**TOXICITY DATA:** When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact.

**Section 12 - Ecological Information**

**ECOTOXICITY:** This material has exhibited moderate toxicity to aquatic organisms.

**Section 13 - Disposal Considerations**

Reuse or reprocess if possible.

**Section 14 - Transport Information**

Not classified as hazardous according to Department of Transportation.

**Section 15 - Regulations**

SARA TITLE III, SECTIONS 311/312: ACUTE: Yes CHRONIC: No FIRE: No REACTIVE: No SUDDEN RELEASE: No

SARA TITLE 313: Not regulated

**Section 16 - Other Information**

**SUPERCEDES DATE:** January 1, 2005

*The information and recommendations in this Material Safety Data Sheet are based upon data believed to be correct and does not relate to its use in combination with any other material or process. Since use conditions vary, we assume no liability for failure to follow product use direction and safety precautions. As data, standards and regulations change; NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.*