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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: Penetrate® Beverage System Cleaner, all sizes

Product ID: 3103X

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

Potassium Hydroxide

CAS REG. #

1310-58-3

Anhydrous Sodium Metasilicate

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****DANGER! CORROSIVE.** Causes burns to the respiratory tract, skin, eyes and gastrointestinal tract. Causes permanent eye damage. Effects of contact or inhalation may be delayed.**PHYSICAL HAZARDS:** Mixing with water, acid or incompatible materials may cause splattering and release of heat.**ECOLOGICAL HAZARDS:** This material has exhibited moderate toxicity to aquatic organisms.**PRECAUTIONARY STATEMENTS:** 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.**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** respiratory system (including asthma and other breathing disorders)**CARCINOGEN STATUS:** OSHA: No NTP: No IARC: No**Section 4 - First Aid Measures****EYE CONTACT:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. GET MEDICAL ATTENTION IMMEDIATELY.**SKIN CONTACT:** 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. GET MEDICAL ATTENTION IMMEDIATELY.**INHALATION:** Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, give. Call a physician or transport to a medical facility.**INGESTION:** Do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY.**NOTES 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****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.**FLASH POINT:** Not flammable**Section 6 - Accidental Release Measures**

Flush spill area with water, if appropriate. This material is alkaline and may raise the pH of surface waters with low buffering capacity.

Section 7 - Handling and Storage**STORAGE:** Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatibles.**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 heat generation and splattering.

Section 8 - Exposure Controls and Personal Protection

VENTILATION: Provide local exhaust ventilation where mist may be generated.

EYE PROTECTION: Wear chemical safety goggles with a faceshield to protect against skin and eye contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: 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. Discard contaminated leather goods.

GLOVES: Wear appropriate chemical resistant gloves.

Section 9 - Physical and Chemical Properties

APPEARANCE: clear liquid

ODOR: odorless

FLASH POINT: Not flammable

WATER SOLUBILITY: 100%

BOILING POINT: 200 – 290°F (102 – 143°C)

FREEZING POINT: 32° F

VAPOR PRESSURE: Not available

VAPOR DENSITY: Not available

Section 10 - Stability and Reactivity

STABILITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Mixing with water, acid or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars or food and beverage products in enclosed spaces.

INCOMPATIBILITIES: 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 polymerize.

Section 11 - Toxicological Information

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. Flush spill with plenty of water before disposal.

Section 14 - Transport Information

DOT NON-BULK: Not regulated

DOT BULK: Not regulated

IMDG: Not regulated

ICAO/IATA: Not regulated

Section 15 - Regulations

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:

IMMEDIATE (ACUTE) HEALTH HAZARD: Yes

DELAYED (CHRONIC) HEALTH HAZARD: No

FIRE HAZARD: No

REACTIVE HAZARD: No

SUDDEN RELEASE OF PRESSURE HAZARD: No

Section 16 - Other Information

SUPERCEDES DATE: January 1, 2005

NFPA: Health 3 Fire 0 Reactivity 1

HMIS: Health 3 Fire 0 Reactivity 1

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.