

**MATERIAL SAFETY DATA SHEET**  
**KRC-7 Bathroom Cleaner/Restorer**

**SECTION 1 PRODUCT NAME AND COMPANY IDENTIFICATION**

**Product Name: KRC-7 Bathroom Cleaner/Restorer (Ultra Foaming Formula)**

**Manufacturer:**

Chemique, Inc.  
315 N. Washington Avenue  
Moorestown, NJ 08057  
(856) 235-4161

MSDS Date of Preparation: 05/11/06

**EMERGENCY PHONE: 800-535-5053 (Infotrac)**

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

<u>INGREDIENTS</u>	<u>CAS#</u>	<u>WT.%</u>
Phosphoric Acid	7664-38-2	10-20
2-Butoxyethanol	111-76-2	1-5
Non-hazardous Ingredients	NA	70-90

**SECTION 3: HAZARDS IDENTIFICATION**

This product is a clear to straw colored liquid with a wintergreen fragrance.

**EMERGENCY OVERVIEW**

**DANGER! CORROSIVE!**

Corrosive. Causes severe eye irritation or burns with possible corneal damage and blindness. Skin contact may cause severe irritation or burns. May be absorbed through the skin causing systemic effects. Vapors or mists may cause irritation to the eyes, mucous membranes and respiratory tract. Higher concentrations may cause severe irritation and pulmonary edema. Ingestion may cause gastrointestinal corrosion, abdominal pain, nausea, shock or death. May cause chronic effects.

**HEALTH HAZARDS:**

**INHALATION:** Mist and vapors may cause severe irritation to the eyes, mucous membranes and upper respiratory tract. High concentrations may cause headache, dizziness, nausea, weakness, and other central nervous system effects. May cause pulmonary edema.

**SKIN CONTACT:** May cause severe irritation and burns with reddening and pain. 2-Butoxyethanol may be absorbed through the skin cause systemic poisoning. Prolonged or repeated skin contact with diluted solutions or mists may cause dermatitis.

**EYE CONTACT:** Liquid or mists may cause severe burns, tearing and blurred vision. Corneal damage or blindness may occur.

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**INGESTION:** May cause gastrointestinal corrosion, abdominal pain and nausea, muscle weakness, weak pulse, circulatory shock and death.

**CHRONIC EFFECTS OF OVEREXPOSURE:** Repeated skin contact with diluted solutions or mists may cause dermatitis. Prolonged or repeated contact may cause damage to the liver and kidneys.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with chronic respiratory, eye or skin diseases may be at increased risk from exposure to this material.

**SECTION 4 FIRST AID MEASURES**

**EYE CONTACT:** Immediately flush eyes with water for at least 15 minutes while lifting the upper and lower lids. Get immediate medical attention.

**SKIN CONTACT:** Immediately flush skin thoroughly with water for 15 minutes. Wash area with soap and water. Remove contaminated clothing and launder before reuse. Get immediate medical attention.

**INHALATION:** Remove to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get immediate medical attention.

**INGESTION:** If conscious, give 1 glass of water or milk to dilute. DO NOT induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.

**SECTION 5 FIRE FIGHTING MEASURES**

**FLASH POINT:** None

**METHOD:** N/A

**FLAMMABLE LIMITS:** (vol % in air) LEL: Not applicable UEL: Not applicable

**AUTOIGNITION TEMPERATURE:** Not established

**EXTINGUISHING MEDIA:** This material is not combustible. Use any media that is suitable for the surrounding fire.

**SPECIAL FIREFIGHTING PROCEDURES:** Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water spray or stream.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** At elevated temperatures containers may rupture. Contact with metals may release flammable hydrogen gas. Contents are corrosive and all personal contact must be avoided.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear appropriate protective clothing to prevent eye and skin contact. Collect into closable containers for disposal. Small spills may be neutralized with soda ash. Do not use combustible materials such as saw dust. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities. Report spill as required by local and federal regulations.

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**SECTION 7 HANDLING And STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Protect containers from physical damage. Store in a cool, well ventilated area away from acids and other incompatible materials.

Prevent eye and skin contact. Do not breathe mists or aerosols. Use only with appropriate protective equipment. Immediately remove and launder contaminated clothing before re-use. Wash thoroughly after handling and before eating, drinking, smoking or using toilet facilities.

**OTHER PRECAUTIONS:** Empty containers retain product residues. Follow all MSDS precautions in handling empty containers.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines:**

<b>INGREDIENTS</b>	<b>CAS#.</b>	<b>EXPOSURE LIMITS</b>
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup> Ceiling (ACGIH) 3 mg/m <sup>3</sup> STEL (ACGIH) 1 mg/m <sup>3</sup> TWA (OSHA)
2-Butoxyethanol	111-76-2	50 ppm (skin) TWA OSHA PEL 20 ppm TWA ACGIH TLV
Non-hazardous Ingredients	NA	None Established

**RESPIRATORY PROTECTION:** Good general ventilation (equivalent to outdoors) should be adequate under normal conditions. For spray application or areas where the TLV is exceeded, a NIOSH approved organic vapor or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**VENTILATION:** Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.

**GLOVES:** Rubber, butyl rubber or other impervious gloves are recommended.

**PROTECTIVE CLOTHING:** Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible.

**EYE PROTECTION:** Chemical safety goggles and/or face shield should be worn if splashing is possible. Do not wear contact lenses.

**OTHER PROTECTIVE EQUIPMENT:** For operations where contact can occur, a safety shower and an eye wash facility should be available.

**SECTION 9 PHYSICAL and CHEMICAL PROPERTIES**

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**BOILING POINT (@ 760 mmHg):** 212 °F/ 100 °C

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.25

**VAPOR PRESSURE (@ 60° C mm Hg):** Not determined

**VAPOR DENSITY (AIR=1):** Not determined

**EVAPORATION RATE (Butyl alcohol = 1):** Similar to water

**COEFFICIENT OF WATER/OIL:** Not available

**APPEARANCE AND ODOR:** Yellow liquid with a wintergreen fragrance.

**MELTING POINT:** Not available

**VOLATILE:** <85%

**pH:** 1

**SOLUBILITY IN WATER:** Complete

**SECTION 10 STABILITY and REACTIVITY**

**STABILITY:** This material is stable.

**CONDITIONS TO AVOID:** Not applicable.

**INCOMPATIBILITY:** Avoid alcohols, aldehydes, caustics, cyanides, oxidizing agents, combustible materials, ketones, metals, esters, sulfides, mercaptans, fluorides, organic peroxides and halogenated organics.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon and phosphorous oxide. Reacts with metals to form flammable hydrogen gas.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Not applicable.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**TOXICOLOGY DATA:** This product has not been tested as a whole. Toxicity values for the components are:

Phosphoric Acid: Oral Rat LD50: 1530 mg/kg  
Inhalation Rat LC50 – >850 mg/m<sup>3</sup>/1 hour  
Skin Rabbit LD50 – 2740 mg/kg

2-Butoxyethanol: Oral rat LD50: 470 mg/kg  
Inhalation rat LC50: 470 mg/kg  
Skin rabbit LD50: 220 mg/kg

None of the components of this product is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

2-Butoxyethanol has been found to be mutagenic in bacteria (*S. typhimurium*).

None of the components are known to cause sensitization in animals or humans.

2-Butoxyethanol has been found to cause adverse reproductive effects in laboratory animals (both effects on fertility and developmental abnormalities by inhalation and oral routes).

**SECTION 12: ECOLOGICAL INFORMATION**

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No data is available on the product or the components.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Dispose in accordance with all local, state and federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

**DOT SHIPPING NAME:** Phosphoric Acid Solution

**DOT HAZARD CLASSIFICATION:** Class 8, PGIII (Corrosive material)

**DOT LABELS REQUIRED (49CFR172.101):** Corrosive

**UN NUMBER:** UN1805

Note: If >50,000 pounds of this product in a single container, RQ requirements apply.

Containers not over 5 L (1.3 gal) may be reclassified as a Consumer Commodity, ORM-D if intended for consumer use.

**SECTION 15: REGULATORY INFORMATION**

**OSHA HAZARD CLASSIFICATION:** Corrosive

**EPA SARA 302:** This product does not contain chemicals regulated under SARA Section 302.

**EPA SARA 311 HAZARD CLASSIFICATION:** Acute health, Chronic Health

**EPA SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313:

2-Butoxyethanol	1-5%	111-76-2
(Glycol Ether Compounds)		

**CERCLA Hazardous Substances (Section 103)/RQ:** Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Phosphoric Acid (20% maximum) of 5,000 lbs, is 25,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**TOXIC SUBSTANCES CONTROL ACT:** All of the components of this product are listed on the TSCA inventory.

**CALIFORNIA PROPOSITION 65:** This product contains the following chemicals which are known by the State of California to cause cancer or reproductive toxicity (birth defects): None

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**WHMIS CLASSIFICATION:** Class D Division 2 Subdivision B (A Toxic Material Causing other Chronic Effects); Class E - Corrosive

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

<b>SECTION 16: OTHER INFORMATION</b>
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NFPA Rating:      Health: 3      Fire: 0      Reactivity: 0