

**MATERIAL SAFETY DATA SHEET**

Revision Date: 3/25/2008

**MSDS No. N030**

Emergency Phones: 800-826-4405

800-424-9300 (CHEMTREC)

PLEASE NOTE: This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this material. Please read the information on these sheets, and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL and STATE RIGHT-TO-KNOW regulations. Also make this information available to any employee who requests it. It is your obligation to comply with these regulations.

**SECTION I - PRODUCT IDENTITY**

**PRODUCT NAME: KLINGER DETERGENT BOWL CLEANER**

Formula: Mixture, water,hydrochloric acid,additives

Chemical Type: Mineral acid and additives

**HMIS RATINGS**

|                          |  |
|--------------------------|--|
| Health = 3 (Serious)     | Flammability = 0 (Insignificant)                         |
| Reactivity = 0 (Minimal) | Protection = C (Safety Glasses, Gloves, Synthetic Apron) |

**SECTION II - HAZARDOUS INGREDIENTS**

|                                | <u>PERCENT</u> | <u>TLV</u> | <u>STEL</u> | <u>CARCINOGEN<br/>(OSHA,TP,IARC)</u> |
|--------------------------------|----------------|------------|-------------|--------------------------------------|
| Hydrochloric Acid<br>7647-01-0 | <10%           | 5ppm       |             | none                                 |

**SECTION III - CHEMICAL AND PHYSICAL**

|  |  |
|--|--|
| Appearance: Green                                | Boiling Point: 210°F                       |
| Odor: Pleasant                                   | Melting Point: N/A                         |
| pH: <1   | Spec. Gravity (H <sub>2</sub> O = 1): 1.05 |
| Water Solubility: Complete                       | Vapor Pressure (mm Hg): N/A                |
| Viscosity (Brookfield): > 100 (Slightly Viscous) | VOC Content: 2%                            |

**SECTION IV - FIRE AND EXPLOSION HAZARDS**

|                            |                   |                          |
|----------------------------|-------------------|--------------------------|
| Flash Point (Method): none | Explosion Limits: | Upper: N/A<br>Lower: N/A |
|----------------------------|-------------------|--------------------------|

Extinguishing Media: N/A (product is non-flammable)

Special Firefighting Procedures and Hazards: Avoid skin and eye contact, and breathing of acid vapors. Wear head and body protection and HCl respirator if exposure to liquid is likely.

**SECTION V - REACTIVITY INFORMATION**

Stable:  Unstable:

**Precautions:**

Incompatibility: Strong alkalis, materials not resistant to strong acids, active metals (zinc, aluminum, magnesium, etc.).

Hazardous Decomposition Products: Hydrogen chloride vapors. Contact with active metals can release flammable gas

Hazardous Polymerization: Occurs:  Does Not Occur:

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## SECTION VI - HEALTH HAZARDS - PROTECTIVE MEASURES - FIRST AID

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- Inhalation: Breathing of vapor can cause respiratory irritation and inflammation. Breathing of mist or liquid can cause burns. Wear approved HCl vapor-mist respirator if exposure is likely. Remove to fresh air. Give artificial respiration or oxygen if needed. Get prompt medical attention.
- Skin: Corrosive. Causes irritation and burns. Wear acid-resistant protective gloves, boots, and clothing. Provide convenient safety showers. Remove contaminated clothing. Flush skin thoroughly with water for 15 minutes. Get medical attention if burns persist.
- Eyes: Corrosive. Causes eye damage. Wear splash proof goggles. Provide convenient eyewash stations. Flush immediately with water for 15 minutes. Get prompt medical attention.
- Ingestion: Corrosive. Causes irritation and burning in mouth and throat. Wear face shield (or respirator). Avoid swallowing. Drink lots of water or, preferably, milk. Get medical attention if effects persist. Do not induce vomiting.

Most likely routes of entry: Skin, Eyes, Inhalation

Other Important Medical or Precautionary Information: None

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## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

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Spills and Leaks: Small spills can be flushed into normal drainage or into ground with copious amounts of water, or taken up with absorbent material. Larger spills should be contained by diking or other methods and held for collection and/or reuse, or for neutralization with alkali before collection and disposal. Personnel should use eye and skin protection.

Storage and Handling: Check daily for any leaks from containers, vessels, pumps, and piping. Have water hoses and alkali (caustic soda, lime, etc.) convenient. Only use containers and equipment designed for acid service. Use a respirator if area is poorly ventilated.

Waste Disposal: If neutralized, may be disposable in sewers if local regulations permit. Otherwise, send to licensed treatment and disposal facility. As supplied, this product is a RCRA hazardous waste.

Empty Containers: Rinse well before handling and disposal.

Other Precautions:

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## SECTION VIII - REGULATORY INFORMATION

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Reportable for SARA Title III, S.313 (Form R): Hydrochloric acid

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