



**MATERIAL SAFETY DATA SHEET**  
Liquid Ice Machine Cleaner

**I - PRODUCT IDENTIFICATION**

**Company Name:** Nu-Calgon Wholesaler, Inc.  
**Address:** 2008 Altom Court, St. Louis, MO 63146-4151  
**Product Name:** Liquid Ice Machine Cleaner  
**Synonyms:** Phosphoric Acid

**Tel No:** (314) 469-7000, (800) 554-5499  
**CHEMTREC:** (800) 424-9300  
**Product Number:** 4207

**II - HAZARDOUS INGREDIENTS OF MIXTURES**

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
# Phosphoric Acid* (ORAL LD50 1530 mg/kg) (DERMAL LD50 2740mg/kg) *STEL=3mg/m3 # Ingredient subject to reporting under section 313 of Title III (SARA) and 40 CFR 372.	7664-38-2	75	1mg/m3	1mg/m3

**III - PHYSICAL DATA**

<b>Vapor Pressure:</b> 0.03	<b>Vapor Density (Air=1) 60-90° F:</b> Unknown
<b>Evaporation Rate:</b> (ether=1) N/A	<b>VOC Content (% by wt.):</b> 15 - 25
<b>Solubility in H<sub>2</sub>O:</b> Complete	<b>pH @ N/A Solution:</b> N/A
<b>Freezing Point °F:</b> N/A	<b>pH as Distributed:</b> <1
<b>Boiling Point °F:</b> @500	<b>Appearance:</b> Clear liquid
<b>Specific Gravity H<sub>2</sub>O=1 @25° C:</b> 1.584	<b>Odor:</b> Odorless

**IV - FIRE AND EXPLOSION**

**Flash Point F:** Non flammable **Flammable Limits:** N/A  
**Extinguishing Media:** Product is not flammable or combustible.  
**Special Fire Fighting Procedures:** Exercise caution when fighting fires involving chemicals. Respiratory protection is essential--wear self-contained breathing apparatus.  
**Unusual Fire and Explosion Hazards:** Contact with some metals may form hydrogen gas. Avoid using in confined, unventilated spaces.

**V - REACTIVITY DATA**

**Stability - Conditions to avoid:** Unknown.  
**Incompatibility:** Strong caustics, metals and reducing agents.  
**Hazardous Decomposition Products:** Phosphoric acid fumes; phosphorus oxide fumes; hydrogen gas.  
**Conditions Contributing to Hazardous Polymerizations:** None known.

**VI - HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated /Target Organ Effects),**  
**A. ACUTE (Primary Route of Exposure) EYES:** Corrosive. Concentrated solutions are extremely irritating to eyes and may produce burns on contact. **SKIN:** Corrosive to tissues. May result in skin burns. Severely irritating to skin; repeated contact with more dilute solutions may result in dermatitis. **INHALATION:** Mist, vapors or aerosols are irritating to respiratory tract and high concentrations may produce pulmonary edema and difficulty in breathing. **INGESTION:** If swallowed may result in abdominal hemorrhage, nausea, vomiting or loss of consciousness. Severe abdominal pain may result from severe burns of stomach and gastrointestinal tract.  
**B. SUBCHRONIC, CHRONIC, OTHER:** No available information was found.  
**C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:**

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VII - EMERGENCY AND FIRST AID PROCEDURES

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**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical aid.

**EYES:** Immediately flush with plenty of water for at least 15 minutes. Seek medical aid.

**SKIN:** Immediately wash with soap and plenty of water for 15 minutes while removing contaminated clothing. Seek medical aid.

**INGESTION:** DO NOT induce vomiting. Give large quantities of water. Seek medical aid. Never give anything by mouth to an unconscious person.

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VIII - SPILL OR LEAK PROCEDURE

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**Spill Management:** Absorb on vermiculite or other suitable material and place in a container for disposal.

**Waste Disposal Methods:** Dispose of in accordance with local, state and federal regulations.

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IX - PROTECTION INFORMATION/CONTROL MEASURES

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**Respiratory:** For vapor or mist exposure, use NIOSH-approved respirator.

**Eye Protection:** Full face shield or goggles. **Glove:** Rubber gloves

**Other Clothing and Equipment:** Rubber apron and boots.

**Ventilation:** Local and mechanical exhaust recommended. Use only in well ventilated areas that will maintain air levels below limits established by federal, state and local regulations.

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X - SPECIAL PRECAUTIONS

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**Precautions to be taken in Handling and Storing :** DANGER! Do not get in eyes, on skin or clothing. Wear chemical splash goggles or face shield, rubber gloves, protective clothing when handling. Harmful if swallowed or inhaled. Avoid breathing vapor or mist. Wash thoroughly after handling. Keep container closed when not in use.

**Additional Information:** Use only in well ventilated areas that will maintain air levels below limits established by federal, state and local regulations. Read and observe all labeled precautions.

**NFPA**

**Health Hazard.....: 2**

**Fire Hazard.....: 0**

**Reactivity.....: 0**

**Specific Hazard...:**

**HMIS RATING**

**Health Hazard.....: 2**

**Fire Hazard.....: 0**

**Reactivity.....: 0**

**Personal Protection...: X (Sec. 9)**

**Revision Date: 03/11/2002**

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