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**MATERIAL SAFETY DATA SHEET** PDF Version of MSDS  
**Nickel-Safe Ice Machine Cleaner**

**I - PRODUCT IDENTIFICATION**

**Company Name:** Nu-Calgon Wholesaler, Inc. **Tel No:** (314) 469-7000, (800) 554-5499  
**Address:** 2008 Altom Court, St. Louis, MO 63146-4151 **CHEMTREC:** (800) 424-9300  
**Product Name:** Nickel-Safe Ice Machine Cleaner **Product Number:** 4287  
**Synonyms:** Descaler for nickel-plated ice machines

**II - HAZARDOUS INGREDIENTS OF MIXTURES**

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
phosphoric acid	7664-38-2	<30	1mg/m3	1mg/m3
citric acid	77-92-9	<5	ne	ne

All ingredients are TSCA listed.

**III - PHYSICAL DATA**

<b>Vapor Pressure:</b> N/A	<b>Vapor Density (Air=1) 60-90°F:</b> N/A
<b>Evaporation Rate:</b> (ether=1) N/A	<b>VOC Content (% by wt.):</b> ~30
<b>Solubility in H<sub>2</sub>O:</b> Complete	<b>pH @ 1% Solution:</b> ~2.0
<b>Freezing Point °F:</b> 0	<b>pH as Distributed:</b> < 1
<b>Boiling Point °F:</b> >200°F	<b>Appearance:</b> Green liquid
<b>Specific Gravity H<sub>2</sub>O=1 @25°C:</b> 1.188	<b>Odor:</b> Mild chemical odor

**IV - FIRE AND EXPLOSION**

**Flash Point F:** None **Flammable Limits:** N/A  
**Extinguishing Media:** Product is nonflammable or combustible.  
**Special Fire Fighting Procedures:** None known.  
**Unusual Fire and Explosion Hazards:** N/A

**V - REACTIVITY DATA**

**Stability - Conditions to avoid:** Stable, none known.  
**Incompatibility:** Strong bases, ammonia, chlorine bleach.  
**Hazardous Decomposition Products:** Forced ignition of dried residues may produce oxides of phosphorus.  
**Conditions Contributing to Hazardous Polymerizations:** Will not occur.

**VI - HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects),**  
**A. ACUTE (Primary Route of Exposure) EYES:** Severely irritating to eyes on contact. May cause burns. (Primary Route of Exposure) **SKIN:** Causes severe irritation. May cause burns on prolonged contact. **INHALATION:** Mists irritating to upper respiratory tract. **INGESTION:** Severely irritating to mouth, throat and stomach.  
**B. SUBCHRONIC, CHRONIC, OTHER:** None known.  
**C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:**

**VII - EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** Remove to fresh air.  
**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.  
**SKIN:** Flush skin with plenty of water for at least 15 minutes. If irritation persists, get medical attention.  
**INGESTION:** Do NOT induce vomiting. Give 1 or 2 glasses of water to dilute. Get immediate medical

attention.

### VIII - SPILL OR LEAK PROCEDURE

**Spill Management:** Small spills may be mopped up and residues flushed to drain with water. Rinse mop before storing. Neutralize with dilute solution of soda ash.

**Waste Disposal Methods:** Unused material is corrosive waste (D002). Used material may be sewerred in accordance with all applicable regulations.

### IX - PROTECTION INFORMATION/CONTROL MEASURES

**Respiratory:** Not normally required.

**Eye Protection:** Splash goggles. **Glove:** Rubber Gloves.

**Other Clothing and Equipment:** None normally required.

**Ventilation:** Good general ventilation.

### X - SPECIAL PRECAUTIONS

**Precautions to be taken in Handling and Storing:** This product will withstand an occasional accidental freezing without loss of performance. Thaw and remix before use.

**Additional Information:** This is a complete product. Do not add or mix with other chemicals.

**NFPA HMIS RATING**

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

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

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

Specific Hazard...: Personal Protection...: X (Sec. 9)

**Revision Date: 06/22/2006**

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**Category: ←ICE MACHINE**

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