



# MATERIAL SAFETY DATA SHEET

## Nickel-Safe Ice Machine Cleaner

### I - PRODUCT IDENTIFICATION

**Company Name:** Nu-Calgon Wholesaler, Inc.  
**Address:** 2008 Altom Court, St. Louis, MO 63146-4151  
**Product Name:** Nickel-Safe Ice Machine Cleaner  
**Synonyms:** Descaler for nickel-plated ice machines

**Tel No:** (314) 469-7000, (800) 554-5499  
**CHEMTREC:** (800) 424-9300  
**Product Number:** 4287

### 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

**Vapor Pressure:** N/A  
**Evaporation Rate:** (ether=1) N/A  
**Solubility in H<sub>2</sub>O:** Complete  
**Freezing Point °F:** 0  
**Boiling Point °F:** >200°F  
**Specific Gravity H<sub>2</sub>O=1 @25° C:** 1.188

**Vapor Density (Air=1) 60-90° F:** N/A  
**VOC Content (% by wt.):** ~30  
**pH @ 1% Solution:** ~2.0  
**pH as Distributed:** < 1  
**Appearance:** Green liquid  
**Odor:** Mild chemical odor

### IV - FIRE AND EXPLOSION

**Flash Point F:** None **Flammable Limits:** N/A  
**Extinguishing Media:** Product is non flammable 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.

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## VIII - SPILL OR LEAK PROCEDURE

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**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.

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## IX - PROTECTION INFORMATION/CONTROL MEASURES

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**Respiratory:** Not normally required.

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

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

**Ventilation:** Good general ventilation.

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## X - SPECIAL PRECAUTIONS

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**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

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:** 10/04/2002

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