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MATERIAL SAFETY DATA SHEET

Nickel-Safe Ice Machine Cleaner

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PDF Version of MSDS

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

Vapor Pressure: N/A **Vapor Density (Air=1) 60-90°F:** N/A
Evaporation Rate: (ether=1) N/A **VOC Content (% by wt.):** ~30
Solubility in H₂O: Complete **pH @ 1% Solution:** ~2.0
Freezing Point °F: 0 **pH as Distributed:** < 1
Boiling Point °F: >200°F **Appearance:** Green liquid
Specific Gravity H₂O=1 @25°C: 1.188 **Odor:** 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 sewered 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: 06/23/2004

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Category: ↵ICE MACHINE

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