MATERIAL SAFETY DATA SHEET
Nickel-Safe Ice Machine Cleaner

I - PRODUCT IDENTIFICATION
Company Name: Nu-Calgon Wholesaler, Inc.
Address: 2008 Alton 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

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>CAS#</th>
<th>% By Wt</th>
<th>TLV</th>
<th>PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>phosphoric acid</td>
<td>7664-38-2</td>
<td>&lt;30</td>
<td>1mg/m3</td>
<td>1mg/m3</td>
</tr>
<tr>
<td>citric acid</td>
<td>77-92-9</td>
<td>&lt;5</td>
<td>ne</td>
<td>ne</td>
</tr>
</tbody>
</table>

All ingredients are TSCA listed.

III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>(ether=1) N/A</td>
</tr>
<tr>
<td>Solubility in H₂O</td>
<td>Complete</td>
</tr>
<tr>
<td>Freezing Point °F</td>
<td>0</td>
</tr>
<tr>
<td>Boiling Point °F</td>
<td>&gt;200°F</td>
</tr>
<tr>
<td>Specific Gravity H₂O=1 @25°C</td>
<td>1.188</td>
</tr>
<tr>
<td>Vapor Density (Air=1) 60-90°F</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC Content (% by wt.)</td>
<td>~30</td>
</tr>
<tr>
<td>pH @ 1% Solution</td>
<td>~2.0</td>
</tr>
<tr>
<td>pH as Distributed</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Appearance</td>
<td>Green liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild chemical odor</td>
</tr>
</tbody>
</table>

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

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.
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.

NFAA /RMIS 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: 03/23/2004

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Category: ICE MACHINE

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