



# MATERIAL SAFETY DATA SHEET

## PRODUCT IDENTIFICATION

**PRODUCT NAME: ICE MACHINE CLEANER**

**PART #: NIMC, NIMC1G**

(NFPA RATINGS)

HEALTH: 2

FIRE: 0

REACTIVITY: 0

HMIS PROTECTIVE EQUIPMENT: X See your supervisor

|  |   |
|--|---|
| <b>PRODUCT INFORMATION</b><br>(800) 262-0012               | <b>MEDICAL EMERGENCY</b><br>(856) 455-4555  |
| <b>TRANSPORTATION EMERGENCY</b><br>CHEMTREC (800) 424-9300 | <b>DISTRIBUTOR / MANUFACTURER</b><br>NATIONAL REFRIGERANTS, INC.<br>661 KENYON AVE. ROSENHAYN, NJ |

## HAZARDOUS INGREDIENTS

**OSHA Hazardous Components (29 CFR 1910.1200)**

**EXPOSURE LIMITS: 8 HR. TWA**

**OSHA PEL**

**ACGIH TLV**

Phosphoric acid (CAS# 7664-38-2)

STEL

1 mg/m<sup>3</sup>

3 mg/m<sup>3</sup>

1 mg/m<sup>3</sup>

STEL 3 mg/m<sup>3</sup>

## HAZARDS IDENTIFICATIONS

**EMERGENCY OVERVIEW:** DANGER! Corrosive to all body tissues. Causes destruction of eye and skin tissue. Harmful if inhaled or swallowed.

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:** Corrosive to respiratory passages. May cause coughing, wheezing, laryngitis, shortness of breath, headache, nausea.

**EYE CONTACT:** Immediate irritation and burning followed by destruction of eye tissue.

**SKIN CONTACT:** Immediate irritation and burning followed by destruction of skin tissue. Moderately toxic when absorbed through skin. Aggravates pre-existing skin disorders.

**INGESTION:** Corrosive to gastrointestinal tract. May cause nausea, vomiting, loss of consciousness.

**CHRONIC Effects:** Kidney and liver damage possible.

**NOTE:**

**CARCINOGENICITY:** LISTED IN NTP? No

IARC? No

OSHA Regulated? No

## FIRST AID MEASURES

**INHALATION:** Remove victim to fresh air and, if needed, immediately begin artificial respiration. Give oxygen if breathing is labored. Get emergency medical help. Contact a physician immediately.

**EYE CONTACT:** Flush eyes with water for 15 minutes. Get medical attention if symptoms develop and persist.

**SKIN CONTACT:** Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek medical attention if symptoms develop and persist.

**INGESTION:** Do not induce vomiting. Rinse mouth out with water. Get immediate medical attention.



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## FIRE FIGHTING MEASURES

**FLASHPOINT (TEST METHOD):** NA  
**FLAMMABLE LIMITS:** LOWER: NA UPPER: NA  
**AUTOIGNITION TEMPERATURE:** NE  
**GENERAL HAZARD:**  
**FIRE FIGHTING INSTRUCTIONS:** Approach fire from upwind side. Avoid breathing smoke, fumes, mist, or vapors on the downwind side. Firefighters wear protective clothing and self contained breathing apparatus.

**EXTINGUISHING MEDIA:** Dry powder, carbon dioxide (CO<sub>2</sub>), water fog or spray.  
**HAZARDOUS COMBUSTION PRODUCTS:** Smoke, CO, CO<sub>2</sub>, toxic fumes of PO<sub>x</sub>

## ACCIDENTAL RELEASE MEASURES

**LAND SPILL:** Emergency response coordinator must have mandated training. Eliminate all ignition sources. **SMALL SPILLS:** Pick up with absorbent materials and place in non-leaking containers; seal tightly for proper disposal or reuse. **LARGE SPILLS:** Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels.

**WATER SPILL:** Notify proper authorities. Clean up spills/leaks immediately to prevent soil or water contamination.

## HANDLING AND STORAGE

**HANDLING:** Always add acid to water; never water to acid. Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in section IV. Launder contaminated clothing before reuse.

**STORAGE:** Store away from caustic / alkalizes.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local exhaust recommended.  
**PERSONAL PROTECTION:** Use NIOSH approved respirator, chemical impervious gloves, chemical goggles or full face shield. Use boots, aprons, drench showers, eye wash as needed for protection against spills and/or splashes.

## PHYSICAL AND CHEMICAL PROPERTIES

**VAPOR PRESSURE (Air=1):** 0.3 mmHg  
**SPECIFIC GRAVITY:** 1.6  
**SOLUBILITY IN WATER:** Soluble  
**pH:** 1 - 2  
**BOILING POINT:** >266 F  
**APPEARANCE & ODOR:** Clear colorless liquid

**VAPOR DENSITY (Air=1):** ND  
**EVAPORATION RATE (N-BUTYL ACETATE=1):** ND  
**VOC (G/L):** 0  
**FREEZING POINT:** ND

## STABILITY AND REACTIVITY

**STABILITY:** Stable.  
**CONDITIONS TO AVOID:** High temperatures.  
**MATERIALS TO AVOID:** Alkaline materials, caustics.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** From combustion: smoke, CO, CO<sub>2</sub>, PO<sub>x</sub>  
**HAZARDOUS POLYMERIZATION:** Will not occur.



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## TOXICOLOGICAL INFORMATION

|                 |                  |              |
|-----------------|------------------|--------------|
| Phosphoric acid | LDLo: 220 mg/kg  | (unr - man)  |
|                 | LD50: 1530 mg/kg | (oral - rat) |
|                 | LD50: 2740 mg/kg | (skin - rat) |

## ECOLOGICAL INFORMATION

Dangerous to aquatic life in high concentrations. Phosphoric acid 138 ppm / 24 hr. / mosquito fish / TLm / fresh water

## DISPOSAL CONSIDERATIONS

Dispose as hazardous waste. Classification and documentation is required before disposal. Follow all local, state and federal regulations.

## TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Consumer Commodity ORM-D  
**HAZARD CLASS:** NA  
**IDENTIFICATION NUMBER:** NA  
**DOT Emergency Guide #:** 154  
**Reportable Quantity (RQ):** Not applicable  
**International:** UN 1805, Phosphoric acid, 8, PG III

## REGULATORY INFORMATION

**TSCA (Toxic Substance Control Act):** Components of this product are listed on the TSCA Inventory.  
**CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):**  
 The reportable quantity is 5000 lbs. (phosphoric acid). Contact local authorities for other reporting requirements.  
**SARA TITLE III (Superfund Amendments and Reauthorization Act):** Not Listed  
**CALIFORNIA PROPOSITION 65:** Not listed.

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**DATE OF LATEST REVISION/REVIEW:** 10/09  
**PERSON RESPONSIBLE FOR MSDS:** Ray Madariaga