

**MATERIAL SAFETY DATA SHEET****SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION**

Product Name: H.B. 30 Ice Machine Cleaner  
 Product Number(s): H-301, H-316, H-305, H-355  
 Product Use: Ice machine cleaner

Date Prepared Aug. 04, 2008

Replaces Jul. 29, 2005

Company Name: North American Research Corporation  
 P.O. Box 1318  
 Lewisville, TX 75067

Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755  
 Transportation Emergencies: Infotrac (800) 535-5053 (24 hours, everyday)

**SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS**

OSHA Hazardous Components (29 CFR 1910.1200):

	CAS Registry No.	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	(STEL) 3 mg/m <sup>3</sup>	< 40
Citric Acid	77-92-9	none listed	none listed	none listed	< 8

**SECTION 3 HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

**DANGER! CORROSIVE. CAUSES SEVERE BURNS TO SKIN, EYES, AND OTHER BODY TISSUE. HARMFUL OR FATAL IF SWALLOWED.**

**POTENTIAL HEALTH EFFECTS**

**EYE CONTACT:** Corrosive. May cause permanent damage including blindness.

**SKIN CONTACT:** Corrosive. May cause permanent damage.

**INHALATION:** Not an expected hazard unless misted. May cause irritation and corrosive effects to the nose, throat, and respiratory tract.

**INGESTION:** Corrosive. May cause burns to mouth, throat, and stomach.

**CHRONIC EXPOSURE:** No known chronic effects.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known other than existing skin disorders.

**CARCINOGENICITY:** NTP? No IARC Monographs? No OSHA Regulated? No

**SECTION 4 FIRST-AID MEASURES**

**EYE CONTACT:** Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

**SKIN CONTACT:** Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

**INHALATION:** If breathing is difficult: Remove to fresh air. Get medical attention immediately.

**INGESTION:** Do not induce vomiting! Immediately drink large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**SECTION 5 FIRE-FIGHTING MEASURES**

**FLASHPOINT:** Not flammable **METHOD:** Not applicable

**FLAMMABLE LIMITS:** LEL: Not applicable UEL: Not applicable **AUTOIGNITION TEMP:** Not applicable

**GENERAL HAZARD:** Not considered to be a fire hazard. Will react with some metals, eg. Aluminum, tin, zinc to form flammable hydrogen gas.

**FIRE EXTINGUISHING MEDIA:** Use means suitable for extinguishing surrounding fire. Water spray may be used to keep fire-exposed containers cool.

**SPECIAL INFORMATION:** Corrosive material. See sections 8 and 10.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** Put on appropriate personal protective equipment.

**ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP:**

Small spills: Mop up or soak up with rags and flush with water.

In the event of major spillage: Use appropriate containment consistent with good industrial or environmental practice. Recover as much as possible. Pump, sweep or scrape up the remaining material and place in suitable clean containers for disposal by proper methods. Use a water rinse for final clean-up.

**SECTION 7 STORAGE AND HANDLING**

**HANDLING:** Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid breathing vapors or spray mists. Wash thoroughly after handling. Remove and wash contaminated clothing and footwear before reuse. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. **FOR INDUSTRIAL USE ONLY.**

STORAGE: Keep tightly closed in original container. Store in a cool, dry, ventilated area. Protect against physical damage. Tip: For transport on service truck, place container inside of plastic pail and immobilize pail.

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## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE CONTROLS: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

PERSONAL PROTECTION:

EYES: Chemical splash goggles.

HANDS: Chemical resistant gloves; rubber, neoprene, or other impervious material.

RESPIRATORY: If mists/vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

FEET: Chemical resistant boots; rubber, neoprene, or other impervious material.

BODY: If major exposure is possible, wear suitable, impervious protective clothing.

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## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE AND ODOR: Light green liquid. Odorless.

SPECIFIC GRAVITY: 1.11

VAPOR PRESSURE: Less than 0.1 @ 68°F

VAPOR DENSITY: 3.4

SOLUBILITY IN WATER: Complete

pH: 1

BOILING POINT: 260°F

FREEZING / MELTING POINT: Not applicable

EVAPORATION RATE (Butyl Acetate = 1): No information available.

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## SECTION 10 STABILITY AND REACTIVITY

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STABILITY: Stable under ordinary conditions of use and storage.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (Materials to Avoid): Contact with strong caustics can cause liberation of much heat and violent spattering. Contact with most metals causes formation of flammable and explosive hydrogen gas. Avoid contact with materials such as sulfides and sulfites which could release toxic gases.

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphorus oxides may form when heated to decomposition.

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## SECTION 11 TOXICOLOGICAL INFORMATION

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Phosphoric Acid (7664-38-2): LD50 – lethal dose 50% of test species, 1530 mg/kg, rat.

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## SECTION 12 ECOLOGICAL INFORMATION

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No specific information available.

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## SECTION 13 DISPOSAL CONSIDERATIONS

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Disposal of unused product is regulated under environmental and transportation laws as a corrosive waste. Dispose of container and unused contents in accordance with federal, state, and local requirements.

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## SECTION 14 TRANSPORT INFORMATION

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U.S. Department of Transportation:

Consumer Commodity ORM-D: Only for U.S. domestic, ground shipments of packages no more than 66 lbs., gross weight, and inner packages no more than 1 gallon.

Phosphoric Acid Solution, 8, UN1805, PGIII: For all other shipments.

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## SECTION 15 REGULATORY INFORMATION

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TSCA: All components of this product are listed on the TSCA inventory.

CERCLA: Phosphoric Acid (7664-38-2); RQ 5000 lbs.

SARA TITLE III: Section 311/312 Hazard Category: Acute: Yes Chronic: No Fire: No Pressure: No Reactive Hazard: No

Section 313 Reportable Ingredients: None

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## SECTION 16 OTHER INFORMATION

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NFPA RATING: Health – 2, Flammability – 0, Reactivity – 0

HMIS<sup>®</sup> RATING: Health – 3, Flammability – 0, Reactivity – 0

HMIS<sup>®</sup> ratings are to be used with a fully implemented HMIS<sup>®</sup> program. HMIS<sup>®</sup> is a registered mark of the National Paint and Coatings Association (NPCA).

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