

# MATERIAL SAFETY DATA SHEET

## ICE MACHINE CLEANER

DATE: 2/3/14

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: Ice Machine Cleaner

MANUFACTURER: Kem Tech Industries, Inc

ADDRESS: N8076 Maple St, Ixonia, WI 53036

EMERGENCY PHONE: 1-262-567-8020

CHEMTREC PHONE: NA

OTHER CALLS:

FAX PHONE: 1-262-567-6114

CHEMICAL FAMILY: Acidic Detergent

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### SECTION 2: HAZARDS IDENTIFICATION

**DANGER :** Corrosive Causes Severe Burns to Eyes, Skin and Respiratory Trac Harmful or Fatal if Swallowed. Harmful if Inhaled. Reacts with Most Metals to Form Explosive/Flammable Gases.

#### Potential Health Effects:

Routes of Exposure: Eyes, Skin, Inhalation, Ingestion.

**Eye:** Causes severe irritation and burns. May cause permanent eye damage, blindness, redness, pain, swelling, conjunctivitis, impaired vision, burns, ulcerations, corneal damage, irritation.

**Skin:** Corrosive-causes severe irritation and burns.

May cause permanent skin damage. Contact may not produce an immediate burning sensation, delaying awareness that contact has occurred. Swelling, discomfort, redness, itching, pain, burns, allergic reaction in some individuals. Repeated and prolonged contact with skin may cause drying and defatting of the skin which may cause irritation of the skin and dermatitis. No skin absorption expected under normal use.

**Ingestion:** Corrosive-causes severe irritation and burns. May irritate or burn: mouth, throat and stomach. May cause nausea, vomiting, abnormal discomfort, abnormal pain, burning sensation.

**Inhalation:** May be corrosive to the respiratory tract. Serious irritation and burns may result. May irritate mucous membranes, nose, throat and lungs. Inhalation of high concentrations may cause permanent damage.

#### CANCER INFORMATION:

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

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### SECTION 3: COMPOSITION/INFORMATION OR INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>OSHA HAZARD</u>	<u>Percent</u>
Phosphoric Acid	7664-38-2	Yes	<40
Citric Acid	77-92-9	Yes	<5

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## SECTION 4 - FIRST AID MEASURES

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**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.

**Skin:** Immediately flush with mild soap and water for 15 minutes. Seek medical attention if irritation develops. Remove contaminated clothing and launder before reuse.

**Eye:** Immediately flush with water for 15 minutes. Remove contact lenses if possible. Seek medical attention at once.

**Ingestion:** **Do not** induce vomiting. If conscious, give 3-4 glasses of water to dilute and get immediate medical care.

**Note to physicians:** Treatment is symptomatic and supportive.

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## SECTION 5 - FIRE FIGHTING MEASURES

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**Flammability:** Not Flammable or Combustible.

**Extinguishing Media:** Water spray, carbon dioxide, and dry chemical.

**Special Fire Fighting Procedures:** Evacuate personnel to a safe area. Keep containers cool with water spray.

Avoid breathing decomposition products. Wear self-contained breathing apparatus and full body protection. Product generates heat upon addition of water, with possible spattering.

**Unusual Fire and Explosion Hazards:** None known. This product may react with metals to produce flammable hydrogen gas.

**Hazardous Decomposition Products:** Thermal decomposition may yield phosphorous, phosphine, oxides of carbon, carbon monoxide, dense smoke.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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**Leak and Spill Procedure:** Corrosive material. Evacuate area. Ventilate area. Collect for disposal. Clean up remaining materials from spill with suitable absorbent. Small spills may be absorbed with inert absorbent and placed in suitable, non-leaking containers. Flush remaining area with water and neutralize with soda ash or limestone. For large spills provide diking or other appropriate containment to keep material from spreading. Prevent large spills from entering sewers or waterways. If diked material can be pumped, store recovered material in compatible drums for recovery or disposal.

Observe all personal protection equipment recommendations.

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## SECTION 7 - HANDLING AND STORAGE

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**Keep Out Of Reach Of Children.** Avoid contact with eyes, skin and clothing. Use adequate ventilation. Keep container tightly closed. Store in fiberglass, polyethylene, or polypropylene containers. Do not store in metal containers, especially aluminum. Do not freeze.

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## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

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**Engineering Controls:** If current ventilation practices are not adequate for minimizing exposures, additional ventilation or exhaust systems may be required.

**Respiratory protection:** Not normally required if good ventilation is maintained. Avoid breathing vapor and/or mist.

**Eye protection:** use chemical goggles or full face shield.

**Skin protection:** use acid resistance impervious (rubber, nitrile) gloves.

**Other protective clothing or equipment:** Eye Bath, Safety Shower, Full Protective Clothing.

**Work Hygienic Practices:** The usual precaution for the handling of chemicals must be observed.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Clear blue liquid

**Specific Gravity (H<sub>2</sub>O = 1):** 1.22-1.24

**Solubility In Water:** Soluble (100% in water)

**Boiling Point:** N.D

**Freezing Point:** N.D.

**Odor:** Odorless

**pH:** <2

**% Volatile:** N.D.

**Evaporation Rate:** N.D.

**Flash Point:** N.A.

**Autoignition Temperature:** N.D.

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## SECTION 10 – STABILITY AND REACTIVITY

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**Stability:** Stable under normal conditions

**Conditions to Avoid:** Contact with water may violent reaction with evolution of heat.

**To Dilute:** Add product slowly to lukewarm water. Avoid high temperatures. Avoid mist formation.

**Incompatible Materials:** Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g. chlorine bleach, sulfides, or cyanides will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat. Aluminum, manganese, metals.

**Hazardous Decomposition Products:** Thermal decomposition may yield oxides of carbon, nitrogen, and chlorine. Hydrogen gas may be released upon contact with certain metals.

**Hazardous Polymerization:** Will not occur under normal conditions.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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**LD50 ORAL:** No data

**LD50 SKIN:** No data

**LD50 INHALATION:** No Data

**Phosphoric Acid:** Phosphoric acid has a low vapor pressure at room temperature and is not expected to present a significant inhalation hazard under ambient conditions.

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**SECTION 12 – ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** No Data Available

**CHEMICAL FATE INFORMATION:** No Data Available

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**SECTION 13 – DISPOSAL CONSIDERATIONS**

**HAZARDOUS WASTE NUMBER:** D002

Dispose of in accordance with Federal, State and Local regulations.

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**SECTION 14 - TRANSPORT INFORMATION**

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**U.S. Department of Transportation:**

**Proper shipping name:**

Corrosive Liquid, N.O.S. (Contains Phosphoric Acid, Citric Acid)

Hazard Class: B

Identification Number: UN1760

Packing Group: III

Label Required: Corrosive

Reportable Quantity: 5000 lbs.

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**SECTION 15 - REGULATORY INFORMATION**

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**Occupational Health & Safety Regulations:**

**WHMIS Classification:** Class D - Division 2B,

Class E - Note: This material is corrosive to Aluminum only. Non-Corrosive to Skin & Mild Steel

**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

**Environmental Regulatory Lists:**

**SARA TITLE III:** Section 311/312 Category:

**IMMEDIATE (Acute) Health Hazard:** YES

**DELAYED (Chronic) Health Hazard:** NO

**FIRE HAZARD:** NO

**Reactive hazard:** NO

**Toxic Substances Control Act (TSCA):** All the ingredients are listed on the Chemical Substance Inventory

**SARA SECTION 302/304/313/HAP:**

Component	Cercla RQ	SARA RQ	SARA TPQ	SARA 313	U.S. HAP
Phosphoric Acid	5000	N.A.	N.A.	ND	ND
Citric Acid	N.A.	N.A.	N.A.	ND	ND

# ICE MACHINE CLEANER

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**SECTION 16 - OTHER INFORMATION**  
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**NFPA RATING SYATEM**

**Health: 3**

**Flammability: 0**

**Reactivity: 0**

**MSDS ABBREVIATIONS:**

**N.A. = Not Applicable**  
**ND = Not Determined**  
**HAP = Hazardous Air Pollutant**  
**VOC = Volatile Organic Compound**  
**N.E. = Not Established**

**KEM TECH INDUSTRIES, INC.**

**Telephone: 262-567-8020**

**Date: February 3, 2014**

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**Disclaimer:** As the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, including, but not limited to merchantability or fitness for a particular use, is made concerning this product. The user assumes all risk of use or handling whether or not in accordance with any directions or suggestions of the supplier. Seller shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our products, from breach of any warranty or from any other cause, the exclusive remedy against the seller being to require replacement or repair of defective goods.  
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