



SAFETY DATA SHEET

ICE MACHINE CLEANER

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Printed: 11/05/2013
Revision: 11/04/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 5455
Product Name: ICE MACHINE CLEANER
Company Name: KIRBY CHEMICAL & RESTAURANT SUPPLY
809 S. EASTMAN RD.
LONGVIEW, TX 75602
Phone Number: (903)757-2723
(800)255-3924
Emergency Contact: CHEM-TEL, INC.
Intended Use: ICE MACHINE CLEANER

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 2



GHS Signal Word: Warning
GHS Hazard Phrases: H315 - Causes skin irritation.
GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P321 - Specific treatment see ... on this label.
P332+313 - If skin irritation occurs, get medical advice/attention.
P362 - Take off contaminated clothing.
GHS Storage and Disposal Phrases: No phrases apply.
Potential Health Effects (Acute and Chronic): Chronic: Not available.
Skin Contact: May cause skin irritation.
Eye Contact: Causes eye irritation.
Ingestion: Causes gastrointestinal tract burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7664-38-2	Phosphoric acid	< 5.0 %



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4. FIRST AID MEASURES

Emergency and First Aid

Procedures: Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In Case of Skin Contact:

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

In Case of Ingestion: Do NOT induce vomiting. Get medical aid immediately.

Note to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt: NA Method Used: Estimate

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: NA

Suitable Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

Flammable Properties and Hazards: No data available.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.
Do not let this chemical enter the environment.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.

Precautions To Be Taken in Storing: Store in a cool, dry place. Store in a tightly closed container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7664-38-2	Phosphoric acid	PEL: 1 mg/m ³	TLV: 1 mg/m ³ STEL: 3 mg/m ³	No data.

Respiratory Equipment (Specify Type): No data available.

Eye Protection: Wear chemical splash goggles.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid
Appearance and Odor: Appearance: Clear. Brownish. Liquid.
Odor: Odorless.
Melting Point: 42.00 C (107.6 F)
Boiling Point: NA
Autoignition Pt: NA
Flash Pt: NA Method Used: Estimate
Explosive Limits: LEL: No data. UEL: No data.
Specific Gravity (Water = 1): 1.186
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): No data.
Evaporation Rate: No data.
Solubility in Water: YES
pH: 1.5 - 2.5
Percent Volatile: No data.

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: Incompatible materials, Metals. Excess heat.
Incompatibility - Materials To Avoid: Strong oxidizing agents, Reacts with most common metals to produce hydrogen gas. Is corrosive to many materials including leather, rubber, and many organics.
Hazardous Decomposition Or Byproducts: Phosphine, oxides of phosphorus, hydrogen gas.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:
CAS# 7664-38-2: Phosphoric acid:
Acute toxicity, LDLO, Route of Application: Unreported., Human, 220.0 MG/KG.
Results:
Lungs, Thorax, or Respiration: Other changes.
Gastrointestinal: Nausea or vomiting.
- Poisoning; Toxicology, Symptoms, Treatments, 2nd ed., Arena, J.M., C.C. Thomas, Springfield, IL, Vol/p/yr: 2,73, 1970

Standard Draize Test, Skin, Species: Rabbit, 595.0 MG, 24 H.
Results:
Effects on Newborn: Stillbirth.
Effects on Newborn: Live birth index (# fetuses per litter; measured after birth).
Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day {4}).
- BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 17-4, 1970



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Standard Draize Test, Eyes, Species: Rabbit, 119.0 MG.
Results:
Behavioral: Somnolence (general depressed activity).
Vascular: BP lowering not characterized in autonomic section.
Skin and Appendages: Skin: After topical exposure: Corrosive.
- BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 17-4, 1970

Carcinogenicity/Other Information:

CAS# 7664-38-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7664-38-2	Phosphoric acid	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information:

Environmental: No information available.
Physical: No information available.
Other: Do not empty into drains.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:
DOT Hazard Class:
UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: No information available.

15. REGULATORY INFORMATION

This material meets the EPA [] Yes [X] No Acute (immediate) Health Hazard
'Hazard Categories' defined [] Yes [X] No Chronic (delayed) Health Hazard
for SARA Title III Sections [] Yes [X] No Fire Hazard
311/312 as indicated: [] Yes [X] No Sudden Release of Pressure Hazard
[] Yes [X] No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7664-38-2	Phosphoric acid	TSCA: Inventory



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16. OTHER INFORMATION

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Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While the information is believed to be correct, Kirby Chemical Company shall in no event be responsible for any damages whatsoever, either directly or indirectly, resulting from any publication or use of or reliance upon data contained herein. No warranty, either expressed or implied, of merchantability, of fitness for a particular purpose, or of any other nature with respect to the product or to the data, is made herein.

The information contained in this Material Safety Data Sheet is supplied pursuant to OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements