

## MATERIAL SAFETY DATA SHEET

**MANUFACTURER: MAXIM CHEMICAL INTERNATIONAL LTD.**  
**1305 HALIFAX STREET, REGINA, SK S4R 1T9**  
**PHONE: (306) 347-0444**

### SECTION (1): PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: PROMAX ICE MACHINE CLEANER

PRODUCT USE: CLEANER, SANITIZER, DESCALER

WHMIS CLASSIFICATION: E  
TDG CLASSIFICATION: Phosphoric Acid Liquid,S  
Class 8, UN 1805, Packing Group III

### SECTION (2): HAZARDOUS INGREDIENTS

	<u>CAS #</u>	<u>Range % (by weight)</u>
Phosphoric Acid	7664-38-2	10.0-30.0
Exposure Limits:	ACGIH TLV 1 mg/m <sup>3</sup>	
LD50 (oral, rat):	1530 mg/kg	
LD50 (dermal,rabbit):	2740 mg/kg	
LC50:	Not available	
Alkyl Dimethy Benzyl Ammonium Chloride (C <sub>12</sub> -C <sub>16</sub> )	68424-85-1	5.0-10.0
Exposure Limits:	ACGIH TLV 1000 ppm TWA	
LD50 (oral, rat):	426 mg/kg	
LD50 (dermal):	Not available	
LC50:	Not available	

### SECTION (3): PHYSICAL DATA (Typical values. May vary from sample to sample)

Physical State:	Liquid
Appearance and Odour:	Clear, red liquid, odourless
Boiling Point:	Not determined
Specific Gravity:	1.106
Solubility in Water:	Soluble
pH:	0.8
Odour Threshold:	Not determined
Vapour Pressure:	Not determined

SECTION (3): PHYSICAL DATA (cont'd)

Vapour Density:	Not determined
Evaporation Rate:	Not determined
Freezing Point:	Not determined
Coefficient of Water/Oil Distribution:	Greater than 1.0

SECTION (4): FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed cup):	None
Extinguisher Media:	Product not flammable. Water fog, CO <sub>2</sub> , foam, dry chemical. Use extinguishing media suitable for surrounding fire.
Special Fire Fighting Procedures:	Wear full protective equipment, including a self contained breathing apparatus in fire fighting situation.
Unusual Fire and Explosion Hazard:	None
Flammable Limits:	None
Auto-ignition Temperature:	Not known
Conditions of Flammability:	Not known
Explosion Data:	
Sensitivity to Mechanical Impact:	None
Sensitivity to Static Discharge:	None

SECTION (5): REACTIVITY DATA

Stability:	Stable under normal storage conditions.
Incompatibility (Materials to avoid):	Strong caustics, strong oxidizing and reducing agents, chlorine, nitric acid nitrous acid. Contact with most metals such as aluminum, zinc or galvanized steel may liberate hydrogen gas which is flammable or explosive in presence of an ignition source.
Hazardous Decomposition Product:	Phosphorus oxides, carbon oxides, other toxic gases.
Hazardous Polymerization:	Will not occur.

SECTION (6): TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY INFORMATION:

Skin Contact:	Can cause severe irritation, tissue injury or burns on prolonged contact.
Skin Absorption:	Unlikely
Eye Contact:	Corrosive to eyes. Can cause severe irritation or burns which can result in permanent damage, possible blindness.
Inhalation:	Mist may cause severe irritation to throat and upper respiratory system.
Ingestion:	Can cause severe irritation, swelling and tissue damage to mouth throat and esophagus. Risk of stomach damage, convulsions, coma.
Irritancy:	The product is corrosive.
Effects of Acute Exposure to Product:	See above at eyes, skin contact, inhalation, ingestion.
Effect of Chronic Exposure to Product:	Not available.
Exposure Limits:	See Section (2) under Hazardous Ingredients.
Sensitization to Product:	No data
Carcinogenicity:	None known
Reproductive Toxicity:	None known
Teratogenicity:	None known
Mutagenicity:	None known
Name of Toxicologically Synergistic Product:	Nitric and nitrous acid, nitro sating agents.

SECTION (7): PREVENTATIVE MEASURES

Respiratory Protection:

Use an approved acid mist respirator if inhalation of concentrated product mist or spray is likely.

Ventilation:

Use with adequate ventilation.

Protective Gloves:

Rubber or plastic

SECTION (7): PREVENTATIVE MEASURES (cont'd)

Eye Protection:

Safety goggles or face shield.

Disposal Procedures for Spills or Leaks:

Wear protective equipment. Dike and contain large spills. Pump spill into an approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available adsorbents and scoop into an approved waste container.

Waste Disposal Method:

Reuse if possible, or otherwise dispose of in accordance with all local, provincial or federal regulations.

Other Precautions:

Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Do not breathe mist/spray. Keep container closed when not in use. Store in a cool, dry well ventilated place away from incompatibles. Do not mix with any other chemicals.

SECTION (8): FIRST AID PROCEDURES

**EYES:** Flush with plenty of water for at least 15 minutes with eyelids held open. Get medical attention.

**SKIN:** Wash well with plenty of water for 15 minutes. If skin irritation develops contact a physician.

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

**INGESTION:** Give plenty of water to drink. Do not induce vomiting. Call a physician.

SECTION (9): PREPARATION INFORMATION

Prepared by Technical Advisory services. Phone: (306) 347-0444

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