

**METAL SAFE ICE MACHINE CLEANER (revised September 2010)****Material Safety Data Sheet****SECTION I - COMPANY IDENTIFICATION****PRODUCT:** METAL SAFE ICE MACHINE CLEANER**CAT. NO.:** H421, H420-16OZ**MANUFACTURED BY:**Sporlan Division-Parker Hannifin Corporation  
206 Lange Drive  
Washington, MO 63090**TELEPHONE NUMBERS:**Office: 1-(636) 239-1111  
Emergency Only: 1-(800) 424-9300**SECTION II - HAZARDOUS INGREDIENTS****OSHA Hazardous Components (29 CFR 1910.1200)****EXPOSURE LIMITS: 8 HR. TWA**

Phosphoric acid (CAS# 7664-38-2)

**OSHA PEL****ACGIH TLV**1 mg/m<sup>3</sup>1 mg/m<sup>3</sup>STEL 3 mg/m<sup>3</sup>STEL 3 mg/m<sup>3</sup>

Hydroxyacetic acid (CAS# 79-14-1)

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**SECTION III - 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

**SECTION IV - 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.**SECTION V - FIRE FIGHTING MEASURES****FLASHPOINT (TEST METHOD):** NA**FLAMMABLE LIMITS:** LOWER: NA

UPPER: NA

**AUTOIGNITION TEMPERATURE:** NA**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>**SECTION VI - 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.**SECTION VII - 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 / alkalies.

**METAL SAFE ICE MACHINE CLEANER (revised September 2010)****SECTION VIII - 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.**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES****VAPOR PRESSURE (Air=1):** Same as H<sub>2</sub>O**SPECIFIC GRAVITY:** 1.2**SOLUBILITY IN WATER:** Soluble**pH:** 1 - 2**BOILING POINT:** 130 C**APPEARANCE & ODOR:** Colorless liquid, no odor**VAPOR DENSITY (Air=1):** 1.0**EVAPORATION RATE (BuAc=1):** >1**VOC (G/L):** 0**FREEZING POINT:** ND**SECTION X - STABILITY AND REACTIVITY****STABILITY:** Stable.**CONDITIONS TO AVOID:****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.**SECTION XI - TOXICOLOGICAL INFORMATION**

|                    |       |            |                |
|--------------------|-------|------------|----------------|
| Phosphoric acid    | LDLo: | 220 mg/kg  | (unr - man)    |
|                    | LD50: | 1530 mg/kg | (oral - rat)   |
| Hydroxyacetic acid | LD50: | 2740 mg/kg | (skin - rat)   |
|                    | LD50: | 1950 mg/kg | (oral - rat)   |
|                    | 2 mg  | SEV        | (eye - rabbit) |

**SECTION XII - ECOLOGICAL INFORMATION**

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

**SECTION XIII - DISPOSAL CONSIDERATIONS**

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

**SECTION XIV - 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 1760, Corrosive liquids, n.o.s., (phosphoric acid, hydroxyacetic acid), 8, PG III, LTD QTY**SECTION XV - 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 pounds (phosphoric acid).

Contact local authorities for other reporting requirements.

**SARA TITLE III (Superfund Amendments and Reauthorization Act):** Section 313: Not listed.**CALIFORNIA PROPOSITION 65:** Not listed.**SECTION XVI - OTHER INFORMATION**

State Right-to-Know Programs: NJ, MA, PA

NFPA Ratings

Health: 2

Flammability: 0

Reactivity: 0

HMIS Protective Equipment: X See your supervisor

Prepared by: Sporlan Division-Parker Hannifin Corporation

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