

Manitowoc
2110 S 26th St., Manitowoc, WI 54220
Emergency Phone Number: (800) 545-5720

DATE PREPARED: 04/10/2013
REVISION DATE: 04/10/2013
CHEM-TEL: 800-225-3924
PRODUCT NUMBER: 100735

SECTION I - IDENTIFICATION

PRODUCT NAME: Manitowoc Ice Machine Cleaner
PRODUCT CODE: 100735
PRODUCT USE: Cleaner

SECTION II – COMPOSITION/HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	OSHA PEL	ACGIH TLV
Phosphoric Acid	7664-38-2	1 mg/m3	1 mg/m3
Hydroxyacetic Acid (Glycolic Acid)	79-14-1	3 mg/m3	3 mg/m3

SECTION III – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER! Corrosive to all body tissues. Causes destruction of eye and skin tissue. Harmful if inhaled or swallowed.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: Causes immediate irritation and burning followed by destruction of eye tissue.

INGESTION: Corrosive to gastrointestinal tract. May cause gastrointestinal irritation, nausea, vomiting, loss of consciousness.

INHALATION: Corrosive to respiratory passages. May cause coughing, wheezing, laryngitis, shortness of breath, headache, or nausea.

SKIN: Immediate inflation and burning followed by destruction of skin tissue. Moderately toxic when absorbed through skin.

MEDICAL CONDITION AGGRAVATED: Aggravates pre-existing skin conditions.

CHRONIC HEALTH HAZARDS: Kidney and liver damage possible.

CARCINOGENICITY:

OSHA: No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** N/A

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

INGESTION: Do not induce vomiting. Rinse mouth out with water. Seek immediate medical attention. If needed, immediately begin artificial respiration.

INHALATION: Move to fresh air. Give oxygen if breathing is labored. Contact a physician immediately.

SKIN: Immediately wash with soap and water for 15 minutes. Seek immediate medical attention.

NOTE TO PHYSICIAN:

SECTION V – FIRE-FIGHTING MEASURES

FLASH POINT: Not Tested

FLAMMABLE LIMITS IN AIR, (% BY VOLUME) **UPPER:** N/A **LOWER:** N/A

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, and foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear SCBA in fire situations.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon and phosphorus.

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Contain the spill with the use of dikes. Neutralize the spill in place with an alkaline material. Absorb spill with non-combustible material such as vermiculite, sand or earth.

Manitowoc Ice Machine Cleaner

WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations. Offer drums for recycling. Pails and smaller containers should be rinsed, resealed, and disposed of properly.

RCRA STATUS: Waste likely considered Hazardous Waste D002 (Corrosive waste) due to the pH of the solution and the corrosive characteristic.

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Always add acid to water, not water to acid. Avoid contact with skin, eyes and clothing. Wear appropriate protective equipment. Wash thoroughly after handling. As with all chemicals, use good industrial hygiene practices. Store in cool, dry, ventilated area.

OTHER PRECAUTIONS: Store away from caustic / alkaline materials.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: Local ventilation/exhaust recommended.

RESPIRATORY PROTECTION: Wear NIOSH approved respirator.

PROTECTIVE CLOTHING: Chemical resistant rubber, acid resistant gloves. Goggles or full face shield Acid resistant boots and apron.

ADDITIONAL MEASURES: Wash hands thoroughly with soap and water after use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless Liquid

ODOR: Odorless

PHYSICAL STATE: Liquid

BOILING POINT: 130°C

FREEZING POINT: Not Tested

VAPOR PRESSURE (mm Hg): Same as water.

VAPOR DENSITY (AIR=1): 1

EVAPORATION RATE: >1

SPECIFIC GRAVITY (H2O=1): 1.2

pH: 1-2

SOLIDS (%): Not tested

SOLUBILITY IN WATER: Miscible

VOLATILITY INCLUDING WATER (%): >80%

VOLATILE ORGANIC COMPOUNDS (VOC): 0%

SECTION X – STABILITY AND REACTIVITY DATA

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: None known

INCOMPATIBILITY: Alkaline Materials. Caustics.

HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of carbon and phosphorus.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Phosphoric Acid - 7664-38-2 - LD 50 Oral Rat: 1,530 mg/kg; LD 50 Dermal Rabbit: 2,740 mg/kg.

Hydroacetic acid (Glycolic acid) - LD50 - oral, rat: 1950 mg/kg | eye, rabbit: 2 mg (SEV)

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

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations. Offer drums for recycling. Pails and smaller containers should be rinsed, resealed, and disposed of properly.

RCRA STATUS: Waste likely considered Hazardous Waste D002 (Corrosive waste) due to the pH of the solution and the corrosive characteristic.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Consumer commodity

ORM-D

HAZARD CLASS/DIVISION: N/A

UN/NA NUMBER: N/A

PACKAGING GROUP: None

AIR SHIPMENT

PROPER SHIPPING NAME: Corrosive Liquid, Acidic, N.O.S., (Containing Phosphoric acid & Hydroacetic acid)

HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN 1760

PACKAGING GROUP: III

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Corrosive Liquid, Acidic, N.O.S., (Containing Phosphoric & Hydroacetic acid)

HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN 1760

PACKAGING GROUP: III

NOTE:

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): The reportable quantity is 5000 pounds (phosphoric acid).

SARA 311/312 HAZARD CATEGORIES: None

SARA 313 REPORTABLE INGREDIENTS: None

CLEAN WATER ACT: None

STATE REGULATIONS: None

INTERNATIONAL REGULATIONS: None

NFPA HEALTH: 2

HMIS HEALTH: 2

NFPA FLAMMABILITY: 0

HMIS FLAMMABILITY: 0

NFPA REACTIVITY: 0

HMIS REACTIVITY: 0

NFPA OTHER: N/A

HMIS PROTECTION: X, See your supervisor

SECTION XVI - ADDITIONAL INFORMATION

PREPARATION BY: Tad Hebdon

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