Safety Data Sheet
Ice Machine Cleaner

SECTION I - IDENTIFICATION

PRODUCT NAME: Ice Machine Cleaner
PRODUCT CODE: 100735000
PRODUCT USE: Ice Machine Cleaner
COMPANY NAME: Manitowoc Foodservice
COMPANY ADDRESS: P.O. Box 091460 Milwaukee, WI 52309
COMPANY PHONE: 920-683-7670
EMERGENCY PHONE: 800-255-3924

SECTION II – HAZARDS IDENTIFICATION

CLASSIFICATION: Skin Corrosive: Category 1C
Eye Damage: Category 1
Corrosive to Metals
HAZARD STATEMENT(S): DANGER: Causes Severe skin burns and eye damage. May be corrosive to metals.
This product contains the following percentage of chemicals of unknown toxicity**:** 0.0%
PRECAUTIONARY STATEMENTS: Do not breathe mists. Wash hands thoroughly after handling. Wear protective gloves, eye protection, and protective clothing. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations. Keep only in original container. Absorb spillage to prevent material damage. Store in a corrosive resistant container with a resistant inner liner.

SYMBOL:

HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Phosphoric Acid	7664-38-2	15-40%
Hydroxyacetic Acid (Glycolic Acid)	79-14-1	10-30%

SECTION IV - FIRST AID MEASURES

EYES: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
INGESTION: If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice or attention.
INHALATION: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
SKIN: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
ACUTE HEALTH HAZARDS: Causes severe burns.
CHRONIC HEALTH HAZARDS: Dermatitis may occur due to long-term irritation.
NOTE TO PHYSICIAN: There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, and foam.
UNSUITABLE EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: Wear SCBA in fire situations.
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon and phosphorus.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.
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.
WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations.
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: Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store locked up.
OTHER PRECAUTIONS: Store away from caustic / alkaline materials.
INCOMPATIBILITY: Alkaline Materials. Caustics.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Phosphoric Acid	1 mg/m3	1 mg/m3
Hydroxyacetic Acid (Glycolic Acid)	3 mg/m3	3 mg/m3

ENGINEERING CONTROLS / VENTILATION: Local ventilation/exhaust recommended.
RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved organic vapor respiratory protection if listed exposure limits (section VIII) are exceeded.
PERSONAL PROTECTIVE EQUIPMENT: Wear acid-resistant gloves, eye protection, and protective clothing.
ADDITIONAL MEASURES: Wash hands thoroughly after handling. Do not breathe vapors. Do not eat, drink, or smoke while using product. Get medical attention if you feel unwell.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless Liquid
ODOR: Odorless
ODOR THRESHOLD: N/D
BOILING POINT: > 212°F (100°C)
FREEZING POINT: N/D
FLAMMABILITY: Not considered a flammable liquid by OSHA (29CFR 1910.1200)
FLASH POINT: N/D
LOWER FLAMMABILITY LIMIT: N/D
UPPER FLAMMABILITY LIMIT: N/D
VAPOR PRESSURE (mm Hg): Same as water.
VAPOR DENSITY (AIR=1): 1
EVAPORATION RATE: < 0.8 (Slow)
SPECIFIC GRAVITY (H2O=1): 1.2
pH: 1-2
SOLIDS (%): N/D
SOLUBILITY IN WATER: 100%
PARTITION COEFFICIENT: n-OCTANOL/WATER (K_{OW}):
VOLATILITY INCLUDING WATER (%): > 80%
VOLATILE ORGANIC COMPOUNDS (VOC): 0%
DECOMPOSITION TEMPERATURE: N/D
VISCOSITY: N/D

SECTION X – STABILITY AND REACTIVITY DATA

REACTIVITY: Iron, Some steel alloys, caustics/alkali materials
CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: None known
INCOMPATIBILITY: Alkaline Materials. Caustics.
HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of carbon and phosphorus.
POSSIBLE HAZARDOUS REACTIONS: None Known

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: **Phosphoric Acid** (7664-38-4) LD_{50} (Oral, Rat) 4,400 mg/kg; LD_{50} (Dermal, Rabbit) > 3,160 mg/kg **Hydroxyacetic Acid** (79-14-1) LD_{50} (Oral, Rat) 1950 mg/kg; (Oral, Guinea Pig) 1920 mg/kg; LC_{50} (Inhalation, Rat, 4hrs) 7 mg/m^3
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.
MEDICAL CONDITION AGGRAVATED: May aggravate pre-existing medical conditions.
ACUTE HEALTH HAZARDS: Causes severe burns.
CHRONIC HEALTH HAZARDS: Dermatitis may occur due to long-term irritation.
CARCINOGENICITY: **OSHA:** No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** N/A

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Dangerous to aquatic life in high concentrations.
BIODEGRADABILITY: This product is biodegradable.
BIOACCUMULATION: This product is not expected to bioaccumulate.
SOIL MOBILITY: This product is mobile in soil.
OTHER ECOLOGICAL HAZARDS: N/A

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations.
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: Corrosive Liquid, N.O.S. (Phosphoric Acid and Glycolic Acid), Ltd. Qty.
HAZARD CLASS/DIVISION: 8
UN/NA NUMBER: UN 1760
PACKAGING GROUP: III

AIR SHIPMENT
PROPER SHIPPING NAME: Corrosive Liquid, N.O.S. (Phosphoric Acid and Glycolic Acid)
HAZARD CLASS/DIVISION: 8
UN/NA NUMBER: UN 1760
PACKAGING GROUP: III

SHIPPING BY WATER:
VESSEL (IMO/IMDG)
PROPER SHIPPING NAME: Corrosive Liquid, N.O.S. (Phosphoric Acid and Glycolic Acid)
HAZARD CLASS/DIVISION: 8
UN/NA NUMBER: UN 1760
PACKAGING GROUP: III
ENVIRONMENTAL HAZARDS WATER: N/A

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Phosphoric Acid (7664-38-4)
Reportable Quantity = 5,000 lbs
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:	None	**HMIS PROTECTION:**	C

SECTION XVI - ADDTIONAL INFORMATION

PREPARATION BY: Jerry Wendt
REPLACES: 05/11/2015
REVISION DATE: 09/29/2017

N/A = Not Applicable; N/D = Not Determined

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