Safety Data Sheet

Section 1 - Product Information

Product Name:Manitowoc Ice Machine Descaler, Part #s 9405803, 9405463				Supplier:	Magnus Chemical
Product Code Number: 5415		Information Phone: 855-962-4687		Address:	3680 W. Royal Lane Suite 155A
Product use:	Ice machine Descaler	Emergency Contact: CHEMTREC 1 800 424-9300			Irving, TX 75063

Section 2 - Hazard Identification

GHS classification	Skin Corrosion/irritation							
	category 1B							

Section 2.1 - Label Elements

Signal Word:	Hazard Pictograms	Hazard Statements:
Danger		H314 - Causes severe skin burns and eye damage

Precautionary Statements: Prevention

P260 - Do not breathe dusts or mists. P264 - Wash hands, forearms and any exposed skin after handling. P280 - Wash protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements: Response

P301+P330+P331 - IF SWALLOWED: rinsie mouth. Do NOT induce vomiting.P303+P361+P353 - IF ON SKIN(or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P363- Wash contaminated clothing before reuse. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P310. Immediately call a POISON CENTER or doctor. P321- Specific treatment: see section 4 of the sds.

Precautionary Statements: Storage

Store locked up.

Precautionary Statements : Disposal

Dispose of contents/container to an approved waste handling facility in accordance with local/regional/national regulations.

Section 3 - Composition

Chemical Name	CAS #	Percent w/w
phosphoric acid	7664-38-2	15-20
citric acid	77-92-9	1-5

Section 4 - First Aid Measures

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison center immediately. Chemical burns must be treated by a physician. Wash contamintated clothing before reuse.
Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a physician or poison control immediately.
Ingestion: Call a physicianor poison control center immediately. Rinse mouth, Do NOT induce vomiting. Keep head low so that stomach content doesn't get into lungs.

Section 5 - Fire and Explosion Hazard Data

flammablility limits	Extinguishing Media:	Special Fire Fighting Procedures: Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH Approved or equivalent to maintain TLV. **UNUSUAL FIRE & EXPLOSION HAZARD:** None known
Product does not burn	Use extinguishing measures that are appropriate to local circumstances. Dry chemical, carbon dioxide, water spray or	

Hazardous combustion products: Carbon oxides.
Explosion data: Not sensitive to mechanical impact. It is not sensitive to static discharge.

Section 6 - Accidental Release Measures

Keep unnecessary and unprotected personnel from entering area. Ventilate area of leak or spill. Wear appropriate personal protective equipment. Contain and recover liquid when possible. Small spills can be absorbed with noncombustible absorbents. Neutralize with sodium bicarbonate. and flush with plenty of water.

Section 7 - Handling and Storage

Store locked up. Keep in tightly closed containers, store in cool, dry, well ventilated area. Isolate from incompatible substances.

Section 8 - Exposure Controls/PPE

Ingredient	OSHA PEL:	ACGIH TLV	PPE		General Hygiene Considerations:
Phosphoric Acid	1mg/m^3	1mg/m^3	Respiratory:	not normally required	Handle in accordance with good industrial hygiene and safety practices. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
Citric acid	not established	none	Eye:	safety glasses, face shield	
			Skin:	Apron, acid proof gloves	
			Ventilation	Normal Room Ventilation	

Section 9 - Physical and Chemical Properties

Appearance	odor	odor threshold	pH	Melting Point	Boiling point	Evaporation rate	Flammability	Upper/lower flammability limits	Vapor pressure
Blue liquid	characteristic	not established	< 2	32ºF	212ºF	NE	none	not applicable	NE

Vapor Density	Density (lbs/gal)	Specific Gravity	pH(use dil)	Solubility (water)	Partition coefficient	Auto Ignition temp	Viscosity	Decomposition Temp	
NE	10.18	1.22		complete	NE	NA	thin	NE	

Section 10 - Stability and Reactivity

Reactivity - no data available, Chemical stability - stable under recommended storage conditions. Possibility of Hazardous Reactions - none under normal processing. Hazardous polymerization does not occur. Avoid heat, flames and sparks. No known in compatible materials. Hazardous decomposition products include carbon oxides.

Section 11- Toxicological Information

Ingredient	Acute toxicity(oral LD50) rat	Acute toxicity(derm. LD50)rabbit	Skin and Eye	Carcinogen	Mutagen	Reproduct. Toxicity	STOST -single Exposure	STOST Repeated exposure
Phosphoric Acid	3500mg/kg	>3100mg/kg	corrosive	Not listed	No info	No info	No info	No info

Section 12 - Ecological Information

No information available

Section 13 - Disposal Considerations

Products covered by this SDS, in their original form, are considered corrosive waste(waste code - D002) according to RCRA (40 CFR 261). Dispose of in accordance with applicable Federal, State and Local regulations.

Section 14 - Transport Information

UN number	Basic Description(DOT)	Class	Packing Group	LTD QTY
UN3264	Corrosive liquid, acidic, inorganic, n.o.s(contains phosphoric acid)	8	II	< 1 Liter

Section 15 - Regulatory Information

Section 16 - Other Information

			HMIS:	Health - 2	Flam. - 0	R - 0	PPE- X
Date Prepared:	14-Aug-2019		Prepared by: Environmental, Health and Safety Administrator.				

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with materials or in any process, unless specified in the text.

Legend for Abbreviations: NA - not applicable NE - Not Established