# 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 - Wear 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.<br>**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