

# Michigan State Industries

# SAFETY DATA SHEET

MSI-8813 Sub Zero Freezer Cleaner  
2

Date: 8/1/2022

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** Sub Zero Freezer Cleaner

### Other Means of Identification

**Product Code** MSI-8813

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Equipment cleaner in freezing environments

### Details of the Supplier of the Safety Data Sheet

**Manufactured for Address** Michigan State Industries  
1780 E. Parnall Rd.  
Jackson, MI 49201

### Emergency Telephone Number

**Company Phone Number** 517.780.6726  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

### Classification

|                                   |                           |  |
|-----------------------------------|---------------------------|--|
| Skin Corrosion/Irritation         | Category 2                |  |
| Serious Eye Damage/Eye Irritation | Category 2 Sub-category B |  |

### Signal Word

**WARNING**

### Hazard Statements

Harmful if swallowed  
Causes skin irritation  
Causes eye irritation



**Appearance:** Clear liquid

**Physical State:** Liquid

**Odor:** Alcohol

**Precautionary Statements - Prevention**

Wear protective gloves\protective clothing\eye protection\face protection  
 Keep away from heat\sparks\open flames\hot surfaces. – No smoking  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements – Response**

Immediately call a POISON CENTER or doctor/physician

**IF IN EYES:** Flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Immediately call a POISON CENTER or doctor/physician

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

**IF SWALLOWED:** Call a POISON CENTER or doctor/physician. Drink a large quantity of water if able. Do NOT induce vomiting. If possible, do not leave individual unattended.

**IN CASE OF FIRE:** Use alcohol foam, carbon dioxide, dry chemical, or water spray for extinction.

**Precautionary Statements - Storage**

Keep container tightly closed.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

|   |
|---|
| <b>COMPOSITION/INFORMATION ON INGREDIENTS</b> |
|---|

| Chemical Name       | CAS No     | Weight-% |
|---------------------|------------|----------|
| Dipropylene Glycol  | 34590-94-8 | 30 - 40  |
| Isopropyl Alcohol   | 67-63-0    | 0 - 10   |
| Potassium hydroxide | 1310-58-3  | 0 - 10   |
| Alcohol Ethoxylate  | 68439-46-3 | 0 - 10   |

|                              |
|------------------------------|
| <b>4. FIRST AID MEASURES</b> |
|------------------------------|

**First Aid Measures**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If irritation persists or if contact has been prolonged, seek medical attention. |
| <b>Eye Contact</b>  | Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.       |
| <b>Ingestion</b>    | Drink plenty of water. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician for advice.   |
| <b>Skin Contact</b> | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation occurs or persists seek medical attention.                         |

**Most Important Symptoms and Effects, both Acute and Delayed**

|                 |                                    |
|-----------------|------------------------------------|
| <b>Symptoms</b> | May cause eye and skin irritation. |
|-----------------|------------------------------------|

**Indication of any Immediate Medical Attention and Special Treatment Needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Note to Physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use alcohol foam, carbon dioxide, dry chemical, or water spray for extinction. Use water spray to cool fire exposed containers.

**Unsuitable Extinguishing Media** Jet water spray may cause frothing and splattering of burning material.

### Specific Hazards Arising from the Chemical

Burning can produce carbon monoxide and/or carbon dioxide.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions** Use personal protective equipment as required.

### Methods and Material for Containment and Cleaning Up

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Collect using an inert absorbent material and place in appropriate containers for disposal. Prevent entry into waterways, sewer, basements or confined areas.

**Methods for Cleaning Up** Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Advice on Safe Handling** Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Do not taste or swallow.

### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions** Store in a cool dry place. For industrial and commercial use only. KEEP OUT OF THE REACH OF CHILDREN.

**Incompatible Materials** Strong acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name                                     | ACGIH TLV                     | OSHA PEL            | NIOSH IDLH |
|---|-------------------------------|---------------------|------------|
| Isopropyl alcohol<br>67-63-0                      | TWA: 400 ppm                  | -                   | -          |
| Potassium hydroxide<br>1310-58-3                  | 2 mg/m <sup>3</sup>           | 2 mg/m <sup>3</sup> | -          |
| Dipropylene Glycol Mononethyl ether<br>34590-94-8 | TWA: 100 ppm<br>STEL: 150 ppm | 25 ppm              | 200 ppm    |

### Appropriate Engineering Controls

**Engineering Controls** Good general ventilation should be sufficient for most conditions.

**Individual Protection Measures, such as Personal Protective Equipment**

- Eye/Face Protection**                      Splash goggles or safety glasses.
- Skin and Body Protection**              Rubber gloves or other impervious gloves.
- Respiratory Protection**                  Room ventilation is expected to be satisfactory where this product is used.
- General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when handling this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties**

|                              |                      |                                |                |
|------------------------------|----------------------|--------------------------------|----------------|
| <b>Physical State</b>        | Liquid               | <b>Odor</b>                    | Alcohol        |
| <b>Appearance</b>            | Clear liquid         | <b>Odor Threshold</b>          | Not determined |
| <b>Color</b>                 | Clear                |                                |                |
| <br>                         |                      | <br>                           |                |
| <b><u>Property</u></b>       | <b><u>Values</u></b> | <b><u>Remarks • Method</u></b> |                |
| pH                           | 10.5 - 11            |                                |                |
| Melting Point/Freezing Point | Not available        |                                |                |
| Boiling Point/Boiling Range  | Not Determined       |                                |                |
| Flash Point                  | 200° F               |                                |                |
| Evaporation Rate             | <1                   | (Water = 1)                    |                |
| Flammability (Solid, Gas)    | Not applicable       |                                |                |
| Upper Flammability Limits    | Not determined       |                                |                |
| Lower Flammability Limit     | Not determined       |                                |                |
| Vapor Pressure               | Not determined       |                                |                |
| Vapor Density                | Not determined       |                                |                |
| Specific Gravity             | 1.003                |                                |                |
| Water Solubility             | Complete             |                                |                |

**10. STABILITY AND REACTIVITY**

**Reactivity**

Not reactive under normal conditions.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Incompatible with strong oxidizing agents. Burning can produce carbon monoxide and/or carbon dioxide.

**Hazardous Polymerization**              Hazardous polymerization does not occur.

**Conditions to Avoid**

Sparks, open flame, or other ignition sources, and elevated temperatures. Keep out of reach of children.

**Incompatible Materials**

Strong oxidizing agents, caustics (bases).

**Hazardous Decomposition Products**

Carbon monoxide and/or carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Harmful by inhalation.                                    |
| <b>Eye Contact</b>  | Causes eye irritation.                                    |
| <b>Skin Contact</b> | Can be absorbed through the skin. Causes skin irritation. |
| <b>Ingestion</b>    | Harmful if swallowed.                                     |

### Component Information

| Chemical Name                    | Oral LD50          | Dermal LD50            | Inhalation LC50   |
|----------------------------------|--------------------|------------------------|-------------------|
| Isopropyl Alcohol<br>67-63-0     | 5050 mg/kg ( Rat ) | 12800 mg/kg ( Rabbit ) |                   |
| Potassium hydroxide<br>1310-58-3 | 273 mg/kg          | No data available      | No data available |

### Information on Physical, Chemical and Toxicological Effects

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Repeated and prolonged skin contact may result in dermatitis. Mists and vapors cause irritation of the eyes, mucous membranes, and upper respiratory tract. |
|-----------------|---|

### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

|                        |  |
|------------------------|--|
| <b>Carcinogenicity</b> | Not classified as a carcinogen per GHS criteria. Not classified as a carcinogen by NTP, IARC, or OSHA. |
|------------------------|--|

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Chemical Name                 | Algae/aquatic plants                               | Fish  | Toxicity to microorganisms | Crustacea                          |
|-------------------------------|--|---|----------------------------|------------------------------------|
| Isopropyl Alcohol<br>67-63-0  |  | 9640 mg. L 96 h /L<br>LC50                                    |                            | 1400 mg/ L / 48<br>EC50            |
| Sodium hydroxide<br>1310-73-2 | 61 mg/L 96 h<br>Selenastrum capricornutum<br>ErC50 | 80 mg/L 96 h Mosquito Fish<br>Fathead Minnow 179 mg/L<br>96 h |                            | 60 mg/L 48 h Daphnia<br>Magna EC50 |

### Persistence and Degradability

Biodegradable

### Bioaccumulation

Potential for bioconcentration in aquatic organisms is low.

### Mobility

Expected to have high mobility in soil.

### Other Adverse Effects

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Listed

**Legend:**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations**

**CERCLA Reportable Quantity** The following components are listed:

| Chemical Name       | CAS Number | CERCLA RQ |
|---------------------|------------|-----------|
| Potassium hydroxide | 1310-58-3  | 1000 lbs. |

**SARA 313** No chemical (s) components of this product are subject to reporting levels established by SARA Title III, Section 313.

**US State Regulations**

**U.S. State Right-to-Know Regulations**

| Chemical Name                    | New Jersey | Massachusetts | Pennsylvania |
|----------------------------------|------------|---------------|--------------|
| Isopropyl Alcohol<br>67-63-0     | X          |               |              |
| Potassium hydroxide<br>1310-58-3 | X          | X             | X            |

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

|             |                       |                     |                         |                            |
|-------------|-----------------------|---------------------|-------------------------|----------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Instability</b>      | <b>Special Hazards</b>     |
| <b>HMIS</b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Physical Hazards</b> | <b>Personal Protection</b> |
|             | 2                     | 1                   | 0                       | Not determined             |
|             | 2                     | 1                   | Not determined          | B                          |

Revision Note                                New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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 any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**