

# Michigan State Industries

# SAFETY DATA SHEET

MSI-134 Sub Zero Freezer Cleaner

Date: 8/29/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** Sub Zero Freezer Cleaner

### Other Means of Identification

**Product Code** MSI-134

### 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

**Manufacturer Address** Michigan State Industries  
17600 Ryan Rd.  
Detroit, MI. 48212

### Emergency Telephone Number

**Company Phone Number** 313-368-3200  
**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

**COMPOSITION/INFORMATION ON INGREDIENTS**

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

**4. FIRST AID MEASURES**

**First Aid Measures**

- Inhalation** 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.
- Eye Contact** 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.
- Ingestion** Drink plenty of water. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician for advice.
- Skin Contact** 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**

- Symptoms** May cause eye and skin irritation.

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

- Note to Physicians** 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 67-63-0	TWA: 400 ppm	-	-
Potassium hydroxide 1310-58-3	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-
Dipropylene Glycol Mononethyl ether 34590-94-8	TWA: 100 ppm 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**

<b>Eye/Face Protection</b>	Splash goggles or safety glasses.
<b>Skin and Body Protection</b>	Rubber gloves or other impervious gloves.
<b>Respiratory Protection</b>	Room ventilation is expected to be satisfactory where this product is used.
<b>General Hygiene Considerations</b>	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		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</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 67-63-0	5050 mg/kg ( Rat )	12800 mg/kg ( Rabbit )	
Potassium hydroxide 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 67-63-0		9640 mg. L 96 h /L LC50		1400 mg/ L / 48 EC50
Sodium hydroxide 1310-73-2	61 mg/L 96 h Selenastrum capricornutum ErC50	80 mg/L 96 h Mosquito Fish Fathead Minnow 179 mg/L 96 h		60 mg/L 48 h Daphnia 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

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

<b>Note</b>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<b>DOT</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

**TSCA** Listed

#### **Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDL - 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 67-63-0	X		
Potassium hydroxide 1310-58-3	X	X	X

