

# Michigan State Industries

# SAFETY DATA SHEET

MSI- 8761 – Delimer

Date: 8/29/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** Delimer

### Other Means of Identification

**Product Code** 8761

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

**Recommended Use** Lime, scale, rust, mineral deposit remover. Cleans & Brightens.

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

**Manufacturer 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

|  |                           |
|--|---------------------------|
| Acute toxicity- Inhalation (Dusts/Mists) | Category 4                |
| Skin Corrosion/ Irritation               | Category 1 Sub-category C |
| Serious Eye Damage/ Eye Irritation       | Category 1                |

### Signal Word

**DANGER**

### Hazard Statements

CORROSIVE. May be harmful if swallowed or inhaled. Causes severe skin burns and eye damage. May be corrosive to metals.



**Appearance:** Clear Liquid

**Physical State:** Liquid

**Odor:** Mild Acid/Detergent odor

**Precautionary Statements - Prevention**

Do not breathe vapor or mist. Do not ingest. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Use in well-ventilated areas.

**Precautionary Statements - Storage**

KEEP OUT OF REACH OF CHILDREN. Store in a dry place no lower in temperature than 50° F or higher than 120° F. Store in a tightly closed container in a secure area inaccessible to children. Store away from oxidizing agents, alkalis, metal, and heat.

**Precautionary Statements - Disposal**

Do not reuse container. Triple rinse empty container with water. Plastic containers may be offered for recycling. Waste must be disposed of in accordance with federal, state, and local environment control regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name     | CAS No    | Weight-% |
|-------------------|-----------|----------|
| Phosphoric Acid   | 7664-38-2 | <15%     |
| Hydrochloric Acid | 7647-01-0 | <3%      |

### 4. FIRST AID MEASURES

**First Aid Measures**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Move person to fresh air. If not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.   |
| <b>Eye Contact</b>  | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.   |
| <b>Ingestion</b>    | Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. |
| <b>Skin Contact</b> | Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Wash contaminated clothing prior to reuse. Call a poison control center or doctor for treatment advice.  |

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

|                           |  |
|---------------------------|--|
| <b>Note to Physicians</b> | No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|---------------------------|--|

### 5. FIRE-FIGHTING MEASURES

|   |   |
|---|---|
| <b><u>Suitable Extinguishing Media</u></b>                          | Foam, Dry powder, carbon dioxide, water spray. Use suitable material for primary source of fire.  |
| <b><u>Unsuitable Extinguishing Media</u></b>                        | Do not use a heavy water stream.  |
| <b><u>Specific Hazards Arising from the Chemical</u></b>            | Not Determined  |
| <b><u>Protective Equipment and Precautions for Firefighters</u></b> | Fire fighters should use an OSHA approved self-contained breathing apparatus and protective clothing when any material is involved in a fire. |



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|                       |              |                       |                     |
|-----------------------|--------------|-----------------------|---------------------|
| <b>Physical State</b> | Liquid       | <b>Odor</b>           | Mild acid/detergent |
| <b>Appearance</b>     | Clear Liquid | <b>Odor Threshold</b> | N/A                 |
| <b>Color</b>          | Clear        |                       |                     |

| <u>Property</u>              | <u>Values</u>       | <u>Remarks • Method</u> |
|------------------------------|---------------------|-------------------------|
| pH                           | 1.0 – 1.5           |                         |
| Melting Point/Freezing Point | N/A                 |                         |
| Boiling Point/Boiling Range  | N/A                 |                         |
| Flash Point                  | N/A                 |                         |
| Evaporation Rate             | (Water = 1): 1      |                         |
| Flammability (Solid, Gas)    | N/A                 |                         |
| Upper Flammability Limits    | N/A                 |                         |
| Lower Flammability Limit     | N/A                 |                         |
| Vapor Pressure               | N/A                 |                         |
| Vapor Density                | N/A                 |                         |
| Specific Gravity             | 1.147               |                         |
| Water Solubility             | Completely soluble. |                         |
| Solubility in Other Solvents | N/A                 |                         |
| Partition Coefficient        | N/A                 |                         |
| Auto ignition Temperature    | N/A                 |                         |
| Decomposition Temperature    | N/A                 |                         |

## 10. STABILITY AND REACTIVITY

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to Avoid

Contact with alkaline materials, reactive metals, and direct sunlight.

### Incompatible Materials

Reacts violently with strong alkalis, producing heat. Contact with many metals may result in severe corrosion attack of the metal and liberation of hydrogen gas. Strong acids, strong bases.

### Hazardous Decomposition Products

Heating phosphoric acid to decomposition yields toxic phosphorous pentoxide fumes.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Harmful if inhaled.   |
| <b>Eye Contact</b>  | Causes severe eye damage.   |
| <b>Skin Contact</b> | Causes severe skin burns.   |
| <b>Ingestion</b>    | Can cause irritation and corrosive burns to mouth, throat, and stomach. |

**Component Information**

| Chemical Name                  | Oral LD50          | Dermal LD50       | Inhalation LC50          |
|--------------------------------|--------------------|-------------------|--------------------------|
| Phosphoric Acid<br>7664-38-2   | 3500 mg/kg (rat)   | >1260 mg/kg (rat) | -                        |
| Hydrochloric Acid<br>7647-01-0 | 900 mg/kg (rabbit) | -                 | 1108 ppm (1 hour, mouse) |

**Information on Physical, Chemical and Toxicological Effects****Symptoms**

May cause eye burns and permanent eye damage. Prolonged contact may even cause severe skin irritation or mild burns. May cause irritation to the mucous membranes and upper respiratory tract.

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

This product does not contain any carcinogens or potential carcinogens as listed by ACGIH, OSHA, IARC or NTP.

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Persistence and Degradability**

Not Determined

**Bioaccumulation**

Not Determined

**Mobility**

Not Determined.

**Other Adverse Effects**

Not Determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Do not reuse container. Triple rinse empty container with water. Plastic containers may be offered for recycling. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Contaminated Packaging**

Do not reuse container. Triple rinse empty container with water. Plastic containers may be offered for recycling.

**14. TRANSPORT INFORMATION****Note**

4/Gal Cases: DOT Packaging Exceptions (49 CFR 173.154)  
LTD, QTY.

**DOT**

UN/ID No UN1805  
Proper Shipping Name Phosphoric Acid Solution  
Hazard Class 8  
Packing Group III

**IATA**

UN/ID No UN1805  
Proper Shipping Name Phosphoric Acid Solution  
Hazard Class 8  
Packing Group III

DOT Quantity Limits Passenger Air 5 L  
 DOT Quantity Limits Cargo Air 60 L

**IMDG**

UN/ID No UN1805  
 Proper Shipping Name Phosphoric Acid Solution  
 Hazard Class 8  
 Packing Group III  
 DOT Vessel Stowage Location A – May be stowed “on deck” or “under deck” on a cargo & passenger vessel

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA Listed  
 DSL 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 |
|-------------------|------------|-----------|
| Phosphoric Acid   | 7664-38-2  | 5000 lbs. |
| Hydrochloric Acid | 7647-01-0  | 5000 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 |
|--------------------------------|------------|---------------|--------------|
| Phosphoric Acid<br>7664-38-2   | X          | X             | X            |
| Hydrochloric Acid<br>7647-01-0 | X          | X             | X            |

**16. OTHER INFORMATION**

|             |                            |                          |                        |  |
|-------------|----------------------------|--------------------------|------------------------|--|
| <u>NFPA</u> | <b>Health Hazards</b><br>2 | <b>Flammability</b><br>0 | <b>Reactivity</b><br>0 | <b>Special Hazards</b><br>Not Determined |
| <u>HMIS</u> | <b>Health Hazards</b><br>2 | <b>Flammability</b><br>0 | <b>Reactivity</b><br>0 | <b>Personal Protection</b><br>D          |

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**