Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
E-Kleen Defoamer

Product Use
Antifoaming agent (defoamer).

Manufacturer Information
Electrochemical Products Inc.
17000 West Lincoln Ave
New Berlin, WI 53151
Phone: 262-786-9330
Emergency Phone #: Chemtrec #800-424-9300 (CCN7498)
E-mail: us-sales@epi.com
www.epi.com
Fax: 262-786-9403

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200. None needed according to classification criteria

GHS Label Elements

Symbol(s)
None needed according to classification criteria

Signal Word
None needed according to classification criteria

Hazard Statement(s)
None needed according to classification criteria

Precautionary Statement(s)

Prevention
None needed according to classification criteria

Response
None needed according to classification criteria

Storage
None needed according to classification criteria
This product may cause irritation to the eyes. This product may cause irritation to the skin.

**Disposal**
Dispose of contents/container in accordance with local/regional/national/international regulations

**Other Hazards**
Exposure to this product may cause irritation to the eyes, skin and respiratory system. May cause irritation of the gastrointestinal tract.

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>95-100</td>
</tr>
<tr>
<td>8012-95-1</td>
<td>Mineral Oil</td>
<td>0.5-0.7</td>
</tr>
</tbody>
</table>

### Section 4 - FIRST AID MEASURES

**Inhalation**
If inhaled, immediately remove the affected person to fresh air.

**Skin**
Wash skin with soap and water.

**Eyes**
Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

**Ingestion**
Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

### Section 5 - FIRE FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media**
Dry chemical, foam, carbon dioxide, water fog.

**Unsuitable Extinguishing Media**
No specific measures identified. None identified.
Hazardous Combustion Products
None.

Special Protective Equipment and Precautions for Firefighters
None.

Fire Fighting Measures
None.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
None. No additional information available.

Methods and Materials for Containment and Cleaning Up
Isolate area. Keep unnecessary personnel away.

Environmental Precautions
Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Block any potential routes to water systems.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Wash thoroughly after handling. Keep container tightly closed.

Conditions for Safe Storage, Including any Incompatibilities
None needed according to classification criteria
Keep the container tightly closed and in a cool, well-ventilated place.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Material</th>
<th>Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Oil</td>
<td>8012-95-1</td>
</tr>
<tr>
<td>ACGIH:</td>
<td>5 mg/m3 TWA (excluding metal working fluids, highly &amp; severely refined) inhalable fraction</td>
</tr>
<tr>
<td>NIOSH:</td>
<td>5 mg/m3TWA</td>
</tr>
<tr>
<td></td>
<td>10 mg/m3STEL</td>
</tr>
</tbody>
</table>
2500 mg/m3IDLH

OSHA (US): 5 mg/m3TWA

Mexico: 5 mg/m3TWA LMPE-PPT

10 mg/m3STEL [LMPE-CT]

**Biological limit value**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

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

**Eye/face protection**

Wear safety glasses with side shields.

**Skin Protection**

Use impervious gloves. Use of protective coveralls and long sleeves is recommended. Use of an impervious apron is recommended.

**Respiratory Protection**

Use NIOSH approved respirator appropriate for the vapor or mist at the point of use.

**Glove Recommendations**

Use impervious gloves.

**Protective Materials**

Eye wash fountain and emergency showers are recommended.

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**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Cloudy</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Bland odor</td>
</tr>
<tr>
<td>Color</td>
<td>Amber</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>&lt;32 °F</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Section 10 - STABILITY AND REACTIVITY

Chemical Stability
This is a stable material.

Possibility of Hazardous Reactions
Will not occur.

Conditions to Avoid
None.

Incompatible Materials
None identified.

Hazardous decomposition products
None.

Section 11 - TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity
This product may cause irritation to the eyes. This product may cause irritation to the skin.

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Water (7732-18-5)
Oral LD50Rat >90 mL/kg
Mineral Oil (8012-95-1)
Oral LD50Rat >24 g/kg
Inhalation LC50Rat 2062 ppm 4 h

**Immediate Effects**
No information on significant adverse effects.

**Delayed Effects**
No information on significant adverse effects.

**Irritation/Corrosivity Data**
No data available.

**Respiratory Sensitization**
No data available.

**Dermal Sensitization**
No data available.

**Component Carcinogenicity**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Oil</td>
<td>A4 - Not Classifiable as a Human Carcinogen (highly and severely refined); A2 - Suspected Human Carcinogen (poorly and mildly refined)</td>
</tr>
</tbody>
</table>

**Germ Cell Mutagenicity**
No data available.

**Reproductive Toxicity**
No data available.

**Specific Target Organ Toxicity - Single Exposure**
No data available.

**Specific Target Organ Toxicity - Repeated Exposure**
No data available.

**Aspiration hazard**
No data available.

**Medical Conditions Aggravated by Exposure**
No data available.

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**Section 12 - ECOLOGICAL INFORMATION**

**Component Analysis - Aquatic Toxicity**
No LOLI ecotoxicity data are available for this product's components
Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Waste must be handled in accordance with all federal, state, provincial, and local regulations. Transport waste material to an authorized waste location, or incinerate under controlled conditions.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
No Classification assigned.

TDG Information:
No Classification assigned.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: no Chronic Health: no Fire: no Pressure: no Reactivity: no

U.S. State Regulations
Not listed under California Proposition 65

Canada Regulations
This material is not a controlled product under Canadian WHMIS regulations.

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

<table>
<thead>
<tr>
<th>Component</th>
<th>Identification Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Oil</td>
<td>8012-95-1</td>
</tr>
<tr>
<td></td>
<td>1 %</td>
</tr>
</tbody>
</table>

Component Analysis - Inventory
Water (7732-18-5)
### Section 16 - OTHER INFORMATION

#### HMIS Rating
Health: 1 Fire: 0 Reactivity: 0  
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

#### NFPA Ratings
Health: 1 Fire: 0 Reactivity: 0  
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; 
AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NITSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of...
Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.