This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

Section I - Product & Company Identification

Product identifier
Product name :   SHIELD
Product form: Liquid
Other means of identification: 0110

Relevant identified uses of the substance or mixture: Cleaner, polish

Details of the supplier of the safety data sheet
Manufacturer:
Diversified Chemical Products, Inc. 4124 B NW Riverside Street, Riverside, MO 64150
Phone: 816-472-5515

Emergency telephone number
Emergency number : CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

Classification
Serious eye damage/Eye Irritation - Category 1
Reproductive toxicity - Category 2

Pictogram

Signal Word
Danger

Hazard Statements
Causes serious eye damage.
Suspected of damaging fertility or the unborn child.

Precautionary Statements – Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapor/spray.
**Precautionary Statements – Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.

IF EXPOSED OR CONCERNED: Get medical advice/attention.

**Precautionary Statements – Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl),alpha-(2-propylethyl)-omega hydroxy</td>
<td>1-5</td>
</tr>
<tr>
<td>Octamethycyclotrasilicone</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to process variation.

**Section IV – First Aid Measures**

**Inhalation:** Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.

**Ingestion:** Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin Contact:** Remove contaminated clothing, wash with plenty of water. If skin irritation persists, call a physician.

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

**Symptoms**

Causes serious eye damage.

Suspected of damaging fertility or the unborn child.

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

**Note to Physicians:** Treat symptomatically.

**Section V – Fire Fighting Measures**

**Suitable Extinguishing Media**

Alcohol resistant foam, dry chemical or carbon dioxide, water spray.

**Unsuitable Extinguishing Media:** No data available.
Specific Hazards Arising from the Chemical
Exposure to combustion products may be hazardous to health. Carbon oxides Silicone oxides, formaldehyde

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH approved and full protective gear. Keep upwind of the fire.

Section VI – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so. Prevent discharge to the environment. Pick up and arrange for disposal without creating dust.

Methods for Cleaning Up: Use non-combustible material like vermiculite, sand or earth to soak up the product and place into a suitable container for later disposal.

Section VII – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. Avoid generation of dust.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store only in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Section VIII – Exposure Controls/ Personal Protection

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
<th>Dow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy</td>
<td>160875-66-1</td>
<td>No exposure limits</td>
<td>No exposure limits</td>
<td>No exposure limits</td>
<td></td>
</tr>
<tr>
<td>Octamethylcyclotrasilicone</td>
<td>556-67-2</td>
<td>No exposure limits</td>
<td>No exposure limits</td>
<td>No exposure limits</td>
<td>10 ppm</td>
</tr>
</tbody>
</table>
### Appropriate Engineering Controls

**Engineering Controls:** Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

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

**Eye/Face Protection:** Wear approved chemical safety goggles/face shield at all time. Eyewash station is recommended.

**Skin and Body Protection:** Wear suitable protective clothing. Nitrile rubber gloves.

**Respiratory Protection:** Ensure adequate ventilation, especially in confined areas. Wear respiratory protection where airborne concentrations are expected to exceed exposure limits.

**General Hygiene Considerations:** Avoid contact with eyes and skin. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

### Section IX – Physical & Chemical Properties

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>pH</td>
<td>8.25-9.50</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>n/a Liquid</td>
</tr>
<tr>
<td>Upper Flammable Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Flammable Limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.98</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>soluble in water</td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not an Explosive</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not an oxidizer</td>
</tr>
<tr>
<td>Odor</td>
<td>Silicone</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Section X – Stability & Reactivity

**Reactivity**
Not classified as reactive hazard.

**Chemical Stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
Can react with strong oxidizing agents.

**Conditions to Avoid**
No data available

**Incompatible Materials**
Strong oxidizing agents

**Hazardous Decomposition Products**
Carbon oxides, Formaldehyde.

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Section XI - Toxicological information

**Information on Likely Routes of Exposure**

**Product Information:**

- **Inhalation:** Avoid breathing mists.
- **Eye Contact:** Causes severe eye damage.
- **Skin Contact:** Causes skin irritation.
- **Ingestion:** Harmful if swallowed.

This product as a whole has not been tested for acute toxicity; the following is based on component data:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>Mixture</td>
<td>&gt;5,000 mg/kg</td>
<td>&gt;5,000 mg/kg</td>
<td>No data available</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy</td>
<td>160875-66-1</td>
<td>&gt;500 mg/kg (Rat)</td>
<td>&gt;2,000 mg/kg (Rabbit)</td>
<td>No data available</td>
</tr>
<tr>
<td>Octamethycyclotetrasilicone</td>
<td>556-67-2</td>
<td>&gt;4,800 mg/kg (Rat)</td>
<td>&gt;2.5 ml/kg (Rabbit)</td>
<td>2975 ppm (Rat) 4 h</td>
</tr>
</tbody>
</table>
### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy</td>
<td>160875-66-1</td>
<td>EC50 (Desmodesmus subspicatus (Green algae)&gt; 10-100 mg/l/72 h</td>
<td>No data available</td>
<td>EC50 Daphnia magna (water flea) &gt; 10-100 mg/l/48 h</td>
</tr>
<tr>
<td>Octamethylcyclotetrasilicone</td>
<td>556-67-2</td>
<td>EC50 Algae- &gt;0.022 mg/l/96 h</td>
<td>LC50 – (Oncorhynchus mykiss (rainbow trout) &gt;0.022 mg/l/96 h</td>
<td>EC50 – Daphnia sp – &gt; 0.015 mg/l/48 h</td>
</tr>
</tbody>
</table>

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

**Carcinogenicity:** This product does not contain carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical Measures of Toxicity:** Not determined

### Section XII - Ecological information

**Ecotoxicity**

There is no data available for this product as a whole.

**Persistence and Degradability**

No data available

**Bioaccumulation**

No data available

**Mobility**

No data available
Section XIII - Disposal considerations

Waste Disposal Method
Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

Section XIV - Transport information

DOT Proper Shipping Description:
Bulk & Non Bulk: Not regulated as a dangerous goods.

Section XV - Regulatory information

SARA Title III Section 311/312 (40CFR370): Acute and chronic health hazards.
SARA Title III Section 313 (40CFR372): None
RCRA Status (40CFR261.33): No reportable components.
TSCA Inventory Status: Reported/included
OSHA/NTP/IARC Carcinogen Status: Not listed
Canadian DSL Status: Reported/included

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:
Trace: Acetaldehyde, ethylbenzene

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy</td>
<td>X</td>
<td>Not regulated</td>
<td>X</td>
</tr>
<tr>
<td>Octamethylcyclotetrasilicone</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

Section XVI - Other information

HMIS ratings: 
Health: 3 Flammability: 1 Reactivity: 0
Indication of changes: Revision – 1
Date Sheet Prepared: 06/8/2015 Other information: Author – EHS Administrator

The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty’s, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

END OF SDS