

SAFETY DATA SHEET

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.

Section III –Composition/Information on ingredients

Mixture

Name	CAS #	Weight %
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	1-5
Octamethylcyclotetrasilicone	556-67-2	0.1-1

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

Section IV – First Aid Measures

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

<u>Chemical Name</u>	<u>CAS #</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH</u>	<u>Dow</u>
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	No exposure limits	No exposure limits	No exposure limits	
Octamethylcyclote trasilicone	556-67-2	No exposure limits	No exposure limits	No exposure limits	10 ppm

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

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

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..

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:

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
Product	Mixture	>5,000 mg/kg	>5,000 mg/kg	No data available
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	160875-66-1	>500 mg/kg (Rat)	>2,000 mg/kg (Rabbit)	No data available
Octamethylcyclotetrasilicone	556-67-2	>4,800 mg/kg(Rat)	>2.5 ml/kg (Rabbit)	2975 ppm (Rat) 4 h

Chemical Name	Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	Octamethylcyclotetrasilicone
Skin corrosion/irritation	No skin irritation	No skin irritation
Serious eye damage/irritation	Irreversible effects	No eye irritation
Respiratory or skin sensitization	Not classified.	Does not cause.
Mutagenicity	Not classified.	Not classified.
Carcinogenicity	Not classified.	Not classifiable
Reproductive toxicity	Suspected of damaging fertility	Or the unborn child.
Specific target organ toxicity-Single exposure	No data available	No data available
Specific target organ toxicity-repeated exposure	No data available	No data available
Aspiration hazard	No data available	No data available

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.

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

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Poly(oxy-1,2-ethanediyl),alpha-(2-propylheptyl)-omega hydroxy	X	Not regulated	X
Octamethylcyclotetrasilicone	Not regulated	Not regulated	Not regulated

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