

SECTION 1: IDENTIFICATION**Product Identifier****Product Name:** EJ-550 Silicone Optical Grease**Product Form:** Mixture**Intended Use of the Product**

Optical coupling lubricant

Name, Address, and Telephone of the Responsible Party

Company/Manufacturer: Eljen Technology
Address: 1300 W. Broadway
SWEETWATER, TEXAS 79556
USA
Phone: (325) 235-4276
Fax: (325) 235-0701
Website: www.eljentechnology.com

Emergency Telephone Number

Emergency Number: ChemTel (24 hours)
United States, Canada, Puerto Rico, U.S. Virgin Islands: 1 (800) 255-3924
International: 1 (813) 248-0585 (Collect calls are accepted)

SECTION 2: HAZARDS IDENTIFICATION**Classification of the Substance or Mixture****Classification (GHS-US):**

Not classified as a hazardous substance or mixture.

Label Elements

Not applicable.

Hazards Not Otherwise Classified

None identified.

Components With Unknown Acute Toxicity (GHS-US)

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**Mixture****Hazardous Components:**

Product does not consist of any components in quantities classified as hazardous.

Composition:

Name	Product Identifier	Concentration (%)
Phenylmethylpolysiloxane	CAS# 63148-52-7	19-94
Modified Silicon Dioxide	CAS# 68611-44-9	2-20

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SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur, go into open air and ventilate suspected area.

Skin Contact: Gently wash with plenty of soap and water.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting.

Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Skin Contact: Not irritating to skin.

Eye Contact: May cause transient eye irritation.

Ingestion: Ingestion is likely to have adverse effects.

Chronic Symptoms: None known.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No specific recommendations.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Agents: Water spray, fog, carbon dioxide (CO₂), dry chemical, or alcohol resistant foam.

Special Hazards Arising from the Substance or Mixture

Fire Hazard: Not flammable but will burn under fire conditions.

Explosion Hazards: Not explosive.

Reactivity: No data available.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Water spray should be used to cool containers. Use water to keep fire exposed containers cool and disperse vapors.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Formaldehyde, Oxides of carbon and silica.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: No special measures required.

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Contaminated surfaces may be slippery.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

Methods for Cleaning Up: Scoop or scrape up bulk and remove. Remove residue film with an inert absorbent and/or hydrophobic solvent.

Reference to Other Sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: Avoid prolonged skin contact. Keep away from eyes. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking, and again when leaving work. Wash hands and forearms thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in original container in a cool and well-ventilated place. For best results, product should be stored at temperatures below 26°C (79°F), and preferably at temperatures below 5°C (41°F).

Incompatible Materials: Strong acids. Strong bases. Strong oxidizing agents such as peroxides and ammonium nitrate.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Components with limit values that require monitoring at the workplace:

Component	CAS #	ACGIH TWA	TLV STEL	OSHA TWA	PEL STEL
Phenylmethylpolysiloxane	63148-52-7	NE	NE	NF	NE
Modified Silicon Dioxide	68611-44-9	6 mg/m ³	10 mg/m ³	6mg/m ³	10 mg/m ³

Note: All solid powders are fully encapsulated in the cured and uncured product and are not hazardous in this form.

Exposure Controls:

Appropriate Engineering Controls: Local ventilation may be desired for prolonged use in a confined area. Provide sufficient ventilation during operations which cause vapor formation. This product can form formaldehyde vapors when heated to temperatures above 150°C in the presence of air. Ensure all local/national regulations are observed.

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Personal Protective Equipment

Eye/Face Protection: Wear safety glasses or goggles.

Skin and Body Protection: Wear rubber or plastic protective gloves. Wear suitable protective clothing.

Respiratory Protection: No protection is ordinarily required under normal conditions of use and with adequate ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	: Transparent grease-like wax
Color	: Colorless to slightly opalescent
Odor	: Slight aldehyde type odor
Odor Threshold	: No data available
pH	: NA
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point/Boiling Range	: No data available
Flash Point	: > 148°C (298°F) (Open cup)
Evaporation Rate	: No data available
Flammability (solid, gas)	: No data available
Lower Flammability/Explosion Limit	: No data available
Upper Flammability/Explosion Limit	: No data available
Vapor Pressure	: No data available
Vapor Density	: No data available
Density (kg/m³)	: 1020
Specific Gravity	: 1.02
Solubility	: Insoluble in water
Solubility in Organic Solvents	: Partially soluble in toluene
Partition Coefficient (n-octanal/water)	: No data available
Auto-Ignition Temperature	: No data available
Decomposition Temperature	: No data available
Viscosity	: No data available
Percent Volatile by Volume	: <1

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under recommended storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Temperatures over 204°C (400°F).

Incompatible Materials: Strong acids. Strong bases. Strong oxidizing agents such as peroxides and ammonium nitrate.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, silicon dioxide. Thermal decomposition may liberate dimethylcyclsiloxanes. This product can form formaldehyde vapors when heated to temperatures above 150°C in the presence of air.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

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Acute Toxicity: Not classified.

Skin Corrosion/Irritation: Not classified.

Serious Eye Damage/Irritation: Not classified.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

NTP	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Symptoms/Injuries After Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/Injuries After Skin Contact: Not irritating to skin.

Symptoms/Injuries After Eye Contact: May cause transient eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to have adverse effects.

Chronic Symptoms: None known.

Additional Information

The information is presented here to the best of our knowledge. The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Avoid release to the environment. Do not allow product to reach ground water, water course or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT

Not regulated for transport.

In Accordance with IMDG

Not regulated for transport.

In Accordance with IATA

Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

Safety, Health, and Environmental Regulations Specific for the Substance or Mixture

US Federal Regulations

TSCA Inventory	All components are listed.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	No SARA hazards.

US State Regulations

This product does not appear on any US State lists.

NFPA Rating

Health : 0

Fire : 0

Reactivity : 0

HMIS Rating

Health : 0

Flammability : 0

Reactivity : 0

SECTION 16: OTHER INFORMATION

Date of Issue: 12/16/2015

Revision Date: 2/17/2022

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. This product or its components are on the European inventory (EINECS) of existing commercial chemicals. This data is offered in good faith as typical values and not as a product satisfaction. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

Abbreviations and Acronyms:

OSHA – Occupational Safety and Health Administration; ACGIH – American Conference of Governmental Industrial Hygienists; DOT – US Department of Transportation; IATA – International Air Transport Association; ADR – Accord Europeen Sur le Transport Des Marchandises Dangereuses Par Route (European Agreement Concerning the International Carriage of Dangerous Goods by Road); IMDG – International Maritime Code for Dangerous Goods; NFPA – National Fire Protection Association (USA); HMIS – Hazardous Materials Identification System (USA); WHMIS – Workplace Hazardous Materials Information System (Canada)

Party Responsible for the Preparation of This Document:

Eljen Technology (325) 235-4276

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.