

## Silver Conductive Grease



**8463**

This Silver Grease provides maximum electrical and thermal conductivity between sliding surfaces, while providing protection from moisture and corrosion. Typical applications include lubrication of substation switches or circuit breakers, heat dissipation from transformers, or static grounding on seals or O-rings.



### Specifications

Product Properties	
Color	Silver
Electrically conductive	Yes
Thermally conductive	Yes
Consistency	Paste
Temperature range	- 50 °C (-58 °F) to 200 °C (392 °F)
Corrosion on Copper	None
Moister resistance	Excellent
Chemical resistance	Excellent
Electrical conductivity	Excellent
Thermal conductivity	Excellent
Lubrication properties	Excellent
Protection from oxidation	Excellent

### Available Sizes

Catalog Number	Sizes Available	Description
8463-7G	7 gram (0.25 oz)	Syringe

# Material Safety Data Sheet

## Section 1: Product Identification

**MSDS Code: 8463**                      **Name: Silver Conductive Grease**

**Related Part Numbers: 8463-7G**

Use: For lubricating switches, improving electrical connections and as a heat sink compound.

## Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
7440-22-4	Silver	61-67%	N/E	8H TWA 0.01 mg (Ag)/m3	N/E
63148-62-9	Dimethylpolysiloxane	30-34%	N/E	N/E	N/E
1333-86-4	Carbon black	3-5%	N/A	N/A	N/E

## Section 3: Hazards Identification

**NFPA Ratings:** Health 1 Flammability 0 Reactivity 0

**HMIS Ratings:** Health 1 Flammability 0 Physical Hazard 0

**Eyes:** May cause eye irritation.

**Skin:** No effects known.

**Inhalation:** Unlikely route of entry

**Ingestion:** None known

**Chronic:** None known

## Section 4: First Aid Measure

**Eyes:** Remove contact lenses. Flush with water or saline for 20 minutes. Get medical aid if irritation persists.

**Skin:** Wash skin with large quantities of soap and water.

**Inhalation:** Remove from exposure to fresh air.

**Ingestion:** Do not induce vomiting. Seek medical attention if adverse symptoms persist.

## Section 5: Fire Fighting Measures

**Auto ignition Temperature:** N/E                      **Flash Point:** 301°C/576°F                      **LEL / UEL:** N/A

**Extinguishing Media:** All standard extinguishing media.

**General Information:** May burn at excessive temperatures.

## Section 6: Accidental Release Measures

**Spill Procedure:** Wipe, scrape, or soak up in an inert material. Wash spill area with soap and water.

## Section 7: Handling and Storage

**Handling:** Wash thoroughly after handling. Avoid contact with eyes.

**Storage:** Store in a cool, dry, well-ventilated area.

## Section 8: Exposure Controls

**Routes of entry:** Eyes, ingestion, inhalation, and skin.

**Ventilation:** Use adequate general or local exhaust ventilation.

**Personal Protection:** Wear protective gloves to prevent skin contact.

## Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Paste	<b>Odor:</b>	None	<b>Solubility in water:</b>	Insoluble	<b>Evaporation Rate:</b>	N/A
<b>Boiling Point:</b>	200°C/392°F	<b>Specific Gravity:</b>	1.18	<b>Vapor Pressure:</b>	<1 PSI @21°C	<b>Vapor Density:</b>	N/A
						<b>pH:</b>	N/A

## Section 10: Stability and Reactivity

**Stability:** Stable at normal temperatures and pressures.

**Conditions to avoid:** Excessive heat or flames, incompatible substances.

**Incompatibilities:** Oxidizing agents

**Polymerization:** Will not occur.

**Decomposition:** Carbon monoxide, carbon dioxide, silicone dioxide, formaldehyde

## Section 11: Toxicological Information

**Sensitization:** (effects of repeated exposure) Not known to.

The ingredients of this product are not classified as being carcinogenic by ACGIH (American Conference of Governmental industrial Hygienists) or IARC (International Agency for Research on Cancer), not regulated as carcinogens by OSHA (Occupational Safety and Health Administration), and not listed as carcinogens by NTP (National Toxicology Program)

**Carcinogenicity:** (risk of cancer)

**Teratogenicity:** (risk of malformation in an unborn fetus)

No

**Reproductive Toxicity:** (risk of sterility)

No

**Mutagenicity:** (risk of heritable genetic effects)

No

<b>Lethal Exposure Concentrations:</b>	<b>Ingestion (LD50):</b>	<b>Inhalation (LC50):</b>	<b>Skin (LD50):</b>	<b>Inhalation (TCLo):</b>
Silver	>10gm/kg Mouse	N/E	N/E	N/E
Dimethylpolysiloxane	>5,000mg/kg Rat	>535mg/l Rat	>10,000mg/ kg Rabbit	N/E
Carbon black	>15400 mg/kg Rat	N/E	>3 gm/kg Rabbit	7 mg/m3 Rat

## Section 12: Ecological Information

**General Information:**

**Volatile Organic compounds, % by weight:** 0%

**Volatile Organic compounds, grams per litre:** 0%

## Section 13: Disposal Information

**General Information:** Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

## Section 14: Transportation Information

**Ground:**

Not regulated.

**Air:**

Not regulated.

**Sea:**

Not regulated.

## Section 15: Regulatory Information

### **CANADA**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.**

**DSL**

All ingredients in this product are listed on the Domestic Substances List

**WHMIS**

This product belongs to the following categories: **D2B**

**Industry and Science Canada**

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

**CAA** (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain any chemicals listed as hazardous air pollutants.

**Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

### **USA**

**SARA** (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

**EPCRA** (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does not contain any chemicals subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product does not contain any chemicals listed.