

## Silicone Grease

8462



**A water repellent, non-melting, dielectric grease lubricant.**

Provides superior corrosion protection. Lubricates and protects against moisture. Compatible with most plastics and elastomers. Conforms to the requirement of 21 CFR section 178.3570, "Lubricants for incidental food contact".

- Meet MIL S-8660
- Broad temperature range (-70 °F to 400 °F)
- Excellent dielectric properties
- Prevents high voltage arcing

### Specifications

Physical Property	Test Method	Performance Range
Appearance		Translucent Paste
Penetration (worked x 60)	ASTM D 217	200-310
Bleed	200°C / 30 hrs	8.0% maximum
Evaporation	200°C / 30 hrs	2%
Typical Properties	Test Method	Performance Range
Specific Gravity		1.02 - 1.06
Water Washout	ASTM D 1264	0.86%
Low Temperature Torque		
Start	ASTM D 1478 (-54°C / -65°F)	944 gm-om
Running	ASTM D 1478 (-54°C / -65°F)	885 gm-om
Volume Resistivity	ASTM D 257	1.1 x 10 <sup>15</sup> ohm-cm
Dissipation Factor	ASTM D 150	-0.0010
Dielectric Constant	ASTM D 150	2.5 (@ 1 Mhz)
Dielectric Strength (10 mil gap)	ASTM D 149	1400 v/mil
Dielectric Strength (50 mil gap)	ASTM D 149	700 v/mil
Dielectric Strength (50 mil gap)	ASTM D 149	700 v/mil



## Available Sizes

Catalog Number	Sizes Available	Description
8462-85ML	85ml (3 oz)	Tube
8462-1P	1 pint (16 oz)	Tub

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# Material Safety Data Sheet

## Section 1: Product Identification

**MSDS Code: 8462****Name: Silicone Grease****Related Part Numbers: 8462-85ML, 8462-1P**

Use: A water moisture barrier repellant, non-melting, dielectric grease and lubricant.

## Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
7631-86-9	Amorphous silica	10 - 30	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	N/e
63148-62-9	Dimethylpolysiloxane	65 - 90	N/e	N/e	N/e

## Section 3: Hazards Identification

**WHMIS Codes:** D2B**NFPA Ratings:** Health 1 Flammability 0 Reactivity 0**HMIS Ratings:** Health 1 Flammability 0 Reactivity 0**Eyes:** May cause eye irritation.**Skin:** May cause mild irritation.**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. Get medical aid if irritation persists.**Skin:** Wash skin with soap and water.**Inhalation:** Remove from exposure to fresh air.**Ingestion:** Rinse mouth with water several times.

## Section 5: Fire Fighting Measures

**Autoignition Temperature:** N/e**Flash Point:** 301°C/574°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. Keep container closed.

## Section 8: Exposure Controls

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

**Ventilation:** Not required.

**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:</b>	Insoluble	<b>Evaporation Rate:</b>	N/a
<b>Boiling Point:</b>	204°C/400°F	<b>Specific Gravity:</b>	0.99	<b>Vapor Pressure:</b>	<1 PSI @25°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.

**Carcinogenicity:** (risk of cancer) 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)

**Teratogenicity:** (risk of malformation in an unborn fetus) No

**Reproductive Toxicity:** (risk of sterility) No

**Mutagenicity:** (risk of heritable genetic effects) No

**Lethal Exposure Concentrations:** **Ingestion (LD50):** N/e **Inhalation (LC50):** N/e **Skin (LD50):** N/e

## Section 12: Ecological Information

**General Information:** Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause environmental damage.

**Environmental Impact Data:** (percentage by weight)

CFC: 0

HFC: 0

Cl.Solv: 0

VOC: 0

HCFC: 0

ODP: 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

**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.**

**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.

**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.

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

This product does not contain any chemicals listed.

**Health Canada**

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.

**Environment Canada**

Chemicals in this product are listed on the Domestic Substances List in the Canadian Environmental Protection Act

This product does not contain any ozone depleting substances.

**Industry and Science Canada**

Labeling, product identity, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance with the Consumer Packaging and Labeling Act and Regulations. This product is not slack filled in accordance to chapter 4 prohibitions.