

8462

SILICONE GREASE

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: 8462**Other Means of Identification:** Silicone Grease / Graisse de Silicone**Related Part #** 8462-55ML, 8462-85ML, 8462-1P, 8462M-1P, 8462-1G, 8462-20KG

Recommended Use and Restriction on Use

Use: Moisture repelling and lubricating dielectric grease**Uses Advised Against:** Not available

Details of Manufacturer or Importer

ManufacturerMG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADAMG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA**☎** +1-800-340-0772**FAX** +1-800-340-0773**E-MAIL** support@mgchemicals.com**WEB** www.mgchemicals.com**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** info@mgchemicals.com**E-MAIL** (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962**
(Service access code: 335388)**For emergencies involving the transport of dangerous goods;** 24/7 service
CANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

8462
SILICONE GREASE
Section 2: Hazard(s) Identification
Classification of Hazardous Chemical
GHS Categories

Based on available data, this product does not meet the HCS 2012 or WHMIS 2015 classification criteria.

Label Elements

Signal Word	<i>No signal word</i>
Pictograms	Hazard Statements
<i>None mandated</i>	None

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
None	None	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
63148-62-9	dimethylpolysiloxane	70-90%
7631-86-9	amorphous silica	10-30%

8462

SILICONE GREASE**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
IF IN EYES	P305 + P351 + P338
Immediate Symptoms	Low toxicity: <i>redness, mild irritation</i>
Response	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN	P302 + P352
Immediate Symptoms	Low toxicity: <i>mild irritation</i>
Response	Wash with plenty of water.
IF INHALED	P304 + P340
Immediate Symptoms	Low toxicity
Response	Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED	P301 + P330, P331
Immediate Symptoms	Low toxicity
Response	Rinse mouth. Do NOT induce vomiting.

Section 5: Fire-Fighting Measures

Extinguishing Media	Use extinguishing media suitable for surrounding materials.
Specific Hazards	Not flammable or combustible, but burns if involved in a fire.
Combustion Products	Produces silicone oxide (SiO ₂) and carbon oxides (CO, CO ₂).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

8462**SILICONE GREASE****Section 6: Accidental Release Measures**

Personal Protection	See personal protection recommendations in Section 8.
Precautions for Response	This product makes surfaces slippery and must be cleaned thoroughly.
Environmental Precautions	Avoid releasing to the environment.
Containment Methods	Not applicable—not readily flowable
Cleaning Methods	Collect waste in a waste container. Use soap and water to remove the last traces of residue.
Disposal Methods	Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention	Keep out of reach of children. Avoid eye or skin contact.
Handling	Wear protective gloves and eye protection. Wash hands thoroughly after handling.
Storage	No available

Section 8: Exposure Controls/Personal Protection
Substances with Occupational Exposure Limit Values

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
Silica, amorphous	U.S.A. NIOSH REL	6 mg/m ³	Not established
	Canada BC ^{a)}	4 mg/m ³	Not established
	Canada BC ^{b)}	1.5 mg/m ³	Not established
<i>(inert or nuisance dust)</i> <i>(particulates not otherwise specified)</i>	U.S.A. OSHA ^{a)}	15 mg/m ³	Not established
	U.S.A. OSHA ^{b)}	5 mg/m ³	Not established
	ACGIH ^{a)}	10 mg/m ³	Not established
	ACGIH ^{b)}	3 mg/m ³	Not established
	Canada AB ^{a)}	10 mg/m ³	Not established
	Canada AB ^{b)}	3 mg/m ³	Not established
	Canada ON ^{a)}	10 mg/m ³	Not established
	Canada ON ^{b)}	3 mg/m ³	Not established
Canada QC ^{a)}	10 mg/m ³	Not established	

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database² and from suppliers' SDSs were also consulted. Short term exposure limits (STEL) are usually for 15 min and long term permissible exposure limits (PEL) for 8 h.

- a) total dust
- b) respirable dust

Engineering Controls
Ventilation

Normal ventilation is generally adequate, except in enclosed or low lying area.

Since the silica dust is bound in the grease matrix, it is not available as a respiration hazard under normal conditions or foreseeable emergency conditions.

Section continued on the next page

8462**SILICONE GREASE****Personal Protective Equipment****Eye protection**

Wear appropriate protective eyeglasses or chemical safety goggles.

Recommendation: Ensure that glasses have side shields for lateral protection.

Skin Protection

For likely contacts, use of protective nitrile gloves or other chemically resistant gloves.

Respiratory Protection Not applicable

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

8462
SILICONE GREASE
Section 9: Physical and Chemical Properties

Physical State	Solid	Lower Flammability Limit	Not applicable
Appearance	White translucent paste	Upper Flammability Limit	Not applicable
Odor	None	Vapor Pressure @20 °C	Not available
Odor Threshold	Not available	Vapor Density	Not applicable
pH	Not applicable	Relative Density @25 °C	1.007
Freezing/Melting Point	500 °C [932 °F]	Solubility in Water	Insoluble
Initial Boiling Point	Not Available	Partition Coefficient n-octanol/water	Not available
Flash Point	200 °C [392 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	<1 (ButAc =1)	Decomposition Temperature	Not available
Flammability	Non Flammable	Viscosity @40°C	Not available

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Ignition sources, excessive heat, and incompatible substances
Incompatibilities	Strong oxidizing agents, strong acids
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

8462
SILICONE GREASE
Section 11: Toxicological Information
Summary of Effects and Symptoms by Routes of Exposure

Eyes	May cause redness and mild irritation.
Skin	May cause mild irritation.
Inhalation	Low Toxicity—No known toxic effects.
Ingestion	Low Toxicity—No known toxic effects.
Chronic	Low Toxicity—No known long term effects.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
dimethylpolysiloxane	>17 g/kg Rat	>2 000 mg/kg Rabbit	2 g/m ³ Rat 7.5 h
amorphous silica	>5 000 mg/kg Rat	>5 000 mg/kg Rat	2 190 mg/m ³ Rat 4 h

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier SDSs were also consulted.

Other Toxicological Effects

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.

Section continued on the next page

8462**SILICONE GREASE**

Reproductive Toxicity (risk to sex functions)	Based on available data, the classification criteria are not met.
Teratogenicity (risk of fetus malformation)	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not applicable. There are no category 1 components, and the kinematic viscosity is > 20.5 mm ² /s.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

Based on available data, neither dimethylpolysiloxane nor amorphous silica are classified as aquatic environmental toxicants according to GHS criteria.

Acute Ecotoxicity

Based on available data, the classification criteria are not met.

Chronic Ecotoxicity

Based on available data, the classification criteria are not met.

Biodegradability

Not available

Bioaccumulation

Not available

Other Effects

Not available

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.

8462

SILICONE GREASE

Section 14: Transport Information**Ground****Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);
USA DOT 49 CFR (Parts 100 to 185) **Regulations.**

Non Regulated

Air**Refer to ICAO-IATA Dangerous Goods Regulations.**

Non Regulated

Sea**Refer to IMDG regulations.**

Non Regulated

Section 15: Regulatory Information**Canada****Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL.

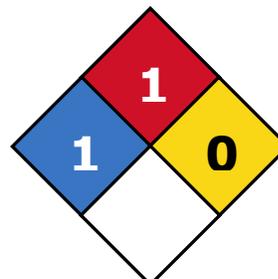
Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

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8462**SILICONE GREASE****USA****Other Classifications****HMIS[®] RATING**

HEALTH:	*	1
FLAMMABILITY:		1
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA[®] 704 CODES

Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

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 substances that are listed as hazardous air pollutants.

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

This product contains does not contain substances which are 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, USA).

This product does not contain any of the listed substances.

Europe**RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

8462**SILICONE GREASE****Section 16: Other Information**

SDS Prepared by Regulatory Department
Date of Review 05 March 2020
Supersedes 23 April 2019
Reason for Changes: Change to emergency phone numbers.

Reference

- 1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

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8462**SILICONE GREASE**

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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