

PREMIUM CARBON CONDUCTIVE GREASE

8481

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

Product Name: Premium Carbon Conductive Grease

SDS Code: 8481

Related Part #: 8481-80G, 8481-1P

### Recommended Use and Restriction on Use

Use: Improves connections between electrical contacts without oil bleeding.

Uses Advised Against: Do not process in a manner the material to form mist or dust

### Details of Manufacturer or Importer

#### Manufacturer

MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA

MG 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](mailto:support@mgchemicals.com)WEB [www.mgchemicals.com](http://www.mgchemicals.com)

☎ 1-905-331-1396

FAX 1-905-331-2682

E-MAIL: [info@mgchemicals.com](mailto:info@mgchemicals.com)E-MAIL (Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

### Emergency Phone Number

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents

USA or CANADA: Call CHEMTREC ☎: **1-800-424-9300**

For emergencies involving dangerous goods; Collect 24/7

CANADA: Call CANUTEC ☎: **1-613-996-6666** or **\*666** on cellular phones

**PREMIUM CARBON CONDUCTIVE GREASE**

**8481**

**Section 2: Hazards Identification**

**Classification of Hazardous Chemical**

**WHMIS Classification**

Not applicable

**GHS Categories**

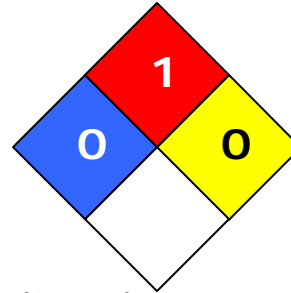
Criteria	Category	Signal Word	Pictograms
Aquatic environmental hazard    Chronic	4	none	No Symbol Mandated

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>0</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA® 704 CODES**



*Approximate HMIS and NFPA Risk Ratings Legend:*

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

*Continued on the next page*

**PREMIUM CARBON CONDUCTIVE GREASE**
**8481**
**Label Elements**

<b>Signal Word</b>	<i>Not applicable</i>
<b>Pictograms</b>	<b>Hazard Statements</b>
No Symbol Mandated	H413: May cause long lasting harmful effects to aquatic life
	<b>Precautionary Statements</b>
<b>Prevention</b>	P273: Avoid release to the environment.
<b>Disposal</b>	P501: Dispose of contents/container in accordance to local/regional/national/international regulations.

**Other Hazards**

Not applicable

**Section 3: Hazardous Ingredients**

CAS #	Chemical Name	Wt%
Non-hazardous <sup>a)</sup>	Synthetic oil	80-90%
1333-86-4	carbon black, non-respirable	15-25%
TBD	zinc compound	1-3%
112945-52-5	Amorphous fumed silica	0.1-1%

a) Non-hazardous component under the U.S. OSHA HazCom 2012, the Canadian Controlled Product Regulations (SOR 88-66)

**PREMIUM CARBON CONDUCTIVE GREASE**

**8481**

**Section 4: First Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF IN EYES</b>	P305, P351, P338, P313, P337+P338
<b>Immediate Symptoms</b>	<i>irritation, redness, pain</i>
<b>Response</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>If eye irritation persists</b>	Get medical attention.
<b>IF ON SKIN</b>	P302, P353, P362+P364, P308+P313
<b>Immediate Symptoms</b>	None known
<b>Response</b>	Wash with plenty of water and soap.
<b>If skin irritation occurs</b>	Get medical advice.
<b>IF SWALLOWED</b>	P301, P330, P331, P314 <i>(Not a likely route of exposure under normal use)</i>
<b>Immediate Symptoms</b>	<i>none known</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting.
<b>If you feel unwell</b>	Get medical attention.
<b>IF INHALED</b>	P304, P340, P332, P314 <i>(Not a likely route of exposure under normal use)</i>
<b>Immediate Symptoms</b>	<i>none known</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing.
<b>If you feel unwell</b>	Get medical attention.

**PREMIUM CARBON CONDUCTIVE GREASE****8481****Section 5: Fire Fighting Measures**

<b>Auto-ignition Temperature</b>	Not established	<b>Flash Point</b> <sup>a)</sup>	>285 °C [>545 °F]	<b>LFL [LEL]</b> <sup>b)</sup>	Not applicable
				<b>UFL [UEL]</b>	

<b>In case of fire</b>	P370 + P378
------------------------	-------------

<b>Response</b>	Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Do not use water jet.
-----------------	--

<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), oxide of sulfur, and smoke.
----------------------------	--

<b>General Information</b>	Will burn if involved in a fire.
----------------------------	----------------------------------

a) Cleveland Open Cup

b) LFL = Lower Flammability [or Explosion] Limit (in volume %);

UFL = Upper Flammability [or Explosion] Limit (in volume %)

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See Section 8.
----------------------------	----------------

<b>Containment</b>	Not applicable
--------------------	----------------

<b>Cleaning</b>	Collect liquid in a sealable, oil-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water to remove the last traces of residue.
-----------------	--

<b>Disposal</b>	Dispose of spill waste according to Section 13.
-----------------	---

**Section 7: Handling and Storage**

<b>Prevention</b>	Do not eat, drink, or smoke when using this product.
-------------------	--

<b>Handling</b>	Wear protective gloves/clothing/eye protection. Wash thoroughly after handling.
-----------------	---

<b>Storage</b>	No special storage instructions needed.
----------------	---

**PREMIUM CARBON CONDUCTIVE GREASE**
**8481**
**Section 8: Exposure Controls/Personal Protection**
**Substances with Occupational Exposure Limit Values**

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
Carbon black <sup>a)</sup>	ACGIH	3.5 mg/m <sup>3</sup>	—
	U.S.A. OSHA PEL	3.5 mg/m <sup>3</sup>	—
	Canada AB	3.5 mg/m <sup>3</sup>	—
	Canada BC	3 mg/m <sup>3</sup>	—
	Canada ON	3.5 mg/m <sup>3</sup>	—
	Canada QC	3.5 mg/m <sup>3</sup>	—

*Note:* Ingredients are listed in descending order of weight contribution (from greatest to least). The ACGIH<sup>2</sup>, OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>1</sup> of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are usually for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Respirable airborne particles

**Engineering Controls**
**Ventilation**

Not Applicable

Under normal conditions of use or emergency situations, the carbon black is not available as an airborne respiratory hazard because it is inextricably bound in the grease matrix.

**Personal Protective Equipment**
**Eye protection**

Even when not mandated, it is good practice to wear appropriate protective eyeglasses or chemical safety goggles.

**Skin Protection**

Not required, but wearing appropriate protective gloves/clothing to prevent carbon black soiling.

**RECOMMENDATION:** Use butyl rubber, Latex, neoprene, or other chemically resistant gloves. While the product is of low toxicity, it is hard to clean.

**Respiratory Protection**

If dust/mist is generated under extreme conditions, wear oil resistant or oil proof particulate respirators or filter masks.

**RECOMMENDATION:** Consult your local safety supply store to ensure your respirator or mask.

*Continued on the next page*

**PREMIUM CARBON CONDUCTIVE GREASE**
**8481**
**General Hygiene Considerations**

Wash hands with water and soap after use.

**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Appearance</b>	Black, grease
<b>Odor</b>	Odorless	<b>Odor Threshold</b>	Not applicable
<b>pH</b>	Not available	<b>Specific Gravity</b>	1.03
<b>Solubility in Water</b>	Slightly soluble	<b>Melting/Freezing Point</b>	Not available
<b>Boiling Point</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Flash Point <sup>a)</sup></b>	>285 °C [>545 °F]	<b>Vapor Pressure @ 20 °C</b>	Not available
<b>Lower Flammability Limit</b>	Not available	<b>Upper Flammability Limit</b>	Not available
<b>Auto-ignition Temperature</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	610 000 cSt	<b>Vapor Density</b>	Not available
<b>Partition Coefficient</b>	Not available		

a) Cleveland Open Cup

**Section 10: Stability and Reactivity**

<b>Stabilities</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Ignition sources, and incompatible substances
<b>Incompatibilities</b>	Strong oxidizing agents
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5

**PREMIUM CARBON CONDUCTIVE GREASE**
**8481**
**Section 11: Toxicological Information**
**Routes of Entry**

Eyes, ingestion, inhalation, and skin

<b>Eyes</b>	May cause mild eye irritation. The carbon black powder and silica are mechanically abrasive, but will not permanently injure the eye.
<b>Skin</b>	May cause mild skin irritation.
<b>Inhalation</b>	<i>Not a likely route of exposure.</i> None known or expected.
<b>Ingestion</b>	<i>Not a likely route of exposure.</i> It may cause gastrointestinal discomfort.
<b>Chronic</b>	None known

**Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation	TCLo inhalation
carbon black	>15 g/kg Rat	>3 g/kg Rabbit	Not available	1.6 mg/m <sup>3</sup> 7 h Rat
Amorphous fumed silica	3 160 mg/kg Rat	≥2 000 mg/kg Rabbit <sup>b)</sup>	Not available	154 mg/m <sup>3</sup> 6 h 4 w Rat

*Note:* Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)<sup>1</sup> data from supplier MSDS were also consulted.

b) Value from supplier MSDS

*Continued on the next page*



**PREMIUM CARBON CONDUCTIVE GREASE****8481**

<b>Skin corrosion/irritation</b>	Does not meet classification criteria. Slight irritation possible.
<b>Serious eye damage/irritation</b>	Does not meet classification criteria. May cause light eye irritation. Contains abrasive particles.
<b>Sensitization</b> (allergic reactions)	Not known or expected
<b>Carcinogenicity</b> (risk of cancer)	<p>The 8481 grease is not classified as carcinogenic. Because the carbon black is inextricably bound in a highly viscous grease mixture, it is not available as an airborne hazard (dust, mist, or spray) under normal and foreseeable use or emergency conditions.</p> <p>Respirable carbon black [1333-86-4] would be classified as possibly carcinogenic by airborne routes of exposures.</p> <p><b>Carbon Black [1333-86-4], respirable</b></p> <p>IARC Group 2B: Possibly carcinogenic to humans</p> <p>ACGIH A4: Not classified as a human carcinogen</p> <p>CA Prop 65: Listed as a carcinogen</p> <p>NTP: Not listed</p>
<b>Reproductive Toxicity</b> (risk to sex functions)	Not available
<b>Teratogenicity</b> (risk of fetus malformation)	Not available
<b>Mutagenicity</b> (risk of heritable genetic effects)	Not available
<b>STOT-single exposure</b>	Not available
<b>STOT-repeated exposure</b>	Not available
<b>Aspiration hazard</b>	Not applicable. There is no evidence of aspiration hazard toxicity for the mixture. The material doesn't contain any known class 1 aspiration hazard components and the viscosity is >20.5 mm <sup>2</sup> /s.

**PREMIUM CARBON CONDUCTIVE GREASE****8481****Section 12: Ecological Information****Acute Ecotoxicity**

Does not meet classification criteria.

The synthetic oil used has highest environmental impact among listed components according to fish, daphnia magna, and algae data provided by oil suppliers. The acute fish toxicity has a LL50 (Lethal Loading Levels) >100 mg/L. Similarly, its daphnia magna acute toxicity is given as EL50 (Effective Load) >100 mg/L. And for the algae, it occurs at a EL50 > 100 mg/L. Other components have higher threshold values from 1,000 mg/L to 10,000 mg/L.

**Chronic Ecotoxicity**

Does not meet classification criteria

**Biodegradability**

Not readily biodegradable

**Section 13: Disposal Information**

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

**Section 14: Transport Information****Ground**

Not regulated by Canadian TDG or U.S. DOT

**Air**

Not regulated by ICAO-IATA

**Sea**

Not regulated by IMDG

**PREMIUM CARBON CONDUCTIVE GREASE****8481****Section 15: Regulatory Information****Canada****Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

**Health Canada**

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

**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.

**USA****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 hazardous air pollutants.

**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 substances 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, Sept 2, 2011 revision, USA).

This product contains carbon black (airborne, unbound particles of respirable size), which is listed as a carcinogen.

Because the carbon black is inextricably bound in the grease matrix, it is not an expected route of entry during usages and processing of this product.

*Continued on the next page*

**PREMIUM CARBON CONDUCTIVE GREASE****8481****Europe****RoHS**

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

**WEEE**

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

**Section 16: Other Information****MSDS Prepared by****Date of Preparation** 02 October 2013**Revision Date** Not applicable**Reason for Changes:** Not applicable.**Reference**

1) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

2) ACGIH 2011 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 (2011).

**Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists

GHS: Globally Harmonized System of Classification of Labeling of Chemicals

LC50 Lethal Concentration 50%

LD50 Lethal Dose 50%

PEL Permissible Exposure Limit

STEL Short-Term Exposure Limit

TCLo Lowest published toxic concentration

TWA Time Weighted Average

VOC Volatile Organic Content

**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](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

Phone: 1-905-331-1396

*Continued on the next page*



Quality System Certified to ISO 9001:2008

SAI Global File #004008

Burlington, Ontario, Canada

---

**PREMIUM CARBON CONDUCTIVE GREASE**

**8481**

**Mailing Addresses** *Manufacturing & Support*  
1210 Corporate Drive  
Burlington, Ontario, Canada  
L7L 5R6

*Head Office*  
9347-193rd Street  
Surrey, British Columbia, Canada  
V4N 4E7

**Disclaimer** This material safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.