



8481

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: 8481

Other Means of Identification: Premium Carbon Conductive Grease

Related Part # 8481-1, 8481-2, 8481-3, 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

FAX +1-800-340-0772 +1-800-340-0773

E-MAIL <u>support@mgchemicals.com</u> **WEB** <u>www.mgchemicals.com</u>

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



SAI Global File #004008 Burlington, Ontario, Canada

8481

Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Criteria		Category	Signal Word	Pictograms
Hazardous to the Aquatic Environment	Chronic	3	None	None

Note: The degree of severity is ranked within each hazard class from

Label Elements

Signal Word	No signal word
Pictograms	Hazard Statements
No Symbol Mandated	H412: Harmful to aquatic life with long lasting effects
Prevention	Precautionary Statements
P273	Avoid release to the environment.
Disposal	Precautionary Statements
P501	Dispose of contents in accordance to local, regional, national, and international regulations.

Hazards Not Otherwise Classified

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

^{1 (}Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.



SAI Global File #004008 Burlington, Ontario, Canada

8481

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
non-hazardous ^{a)}	synthetic oil	82%
1333-86-4	carbon black	12%
12001-85-3	naphthenic acids, zinc salts	2%
112945-52-5	amorphous fumed silica	0.3%

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

Section 4: First Aid Measures

Exposure Condition	GHS Code/Symptoms/Precautionary Statements
IF INHALED	P304 + P340
Immediate Symptoms	low toxicity: no symptoms known or expected
Response	Remove person to fresh air and keep comfortable for breathing.
IF IN EYES	P305 + P351 + P338
Immediate Symptoms	low toxicity: redness, mild irritation
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, P332 + P313
Immediate Symptoms	low toxicity: mild skin irritation
Response	Wash with plenty of water. If skin irritation occurs: Get medical advice or attention.
IF SWALLOWED	P301 + P330 + P331
Immediate Symptoms	low toxicity: no symptoms known or expected
Response	Rinse mouth. Do NOT induce vomiting.



SAI Global File #004008 Burlington, Ontario, Canada

8481

Section 5: Fire Fighting Measures

Extinguishing Media Use dry chemical, carbon dioxide, chemical foam, or water

spray to extinguish. Do not use water jet.

Specific Hazards Not flammable or combustible, but burns if involved in a fire.

Avoid breathing combustion products.

Combustion Products Produces carbon oxides (CO, CO₂), oxide of sulfur, and

smoke.

Fire-Fighter Wear self-contained breathing apparatus and full fire-fighting

turn-out gear.

Section 6: Accidental Release Measures

Personal Protection Use personal protection recommended in Section 8.

Precautions for Response

Avoid breathing fumes. Remove or keep away all sources of

extreme heat.

Environmental Precautions

Prevent spill from entering drains and waterways.

Containment Methods Not applicable

Cleaning Methods Collect paste in a sealable, solvent-resistant container. Sprinkle

inert absorbent compound onto spill, then sweep into the container Wipe up further residue with paper towel and place dirty towels in container. Wash spill area with 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 Avoid breathing fumes.

Avoid release to the environment.

Handling Wear protective gloves and eye protection.

Wash hands thoroughly after handling.

Storage No special storage instructions needed.

RECOMMENDATION: Keep in a dry and clean area, away from

incompatible substances.

Page **4** of **12**

Date: 04 May 2022 / Ver. 2.03



SAI Global File #004008 Burlington, Ontario, Canada

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 a)	ACGIH	3.5 mg/m ³	Not established
	U.S.A. OSHA PEL	3.5 mg/m ³	Not established
	Canada AB	3.5 mg/m ³	Not established
	Canada BC	3 mg/m ³	Not established
	Canada ON	3.5 mg/m ³	Not established
	Canada QC	3.5 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' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Respirable airborne particles

Engineering Controls

Ventilation Keep airborne concentrations below the occupational exposure

limits (OEL).

Because the carbon black is bound to the grease matrix, it does not present an airborne hazard under normal use. Ensure adequate ventilation if the product is mechanically misted or

aerosolized.

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 butyl rubber or other

chemically resistant gloves.

Section continued on the next page

Page **5** of **12** Date: 04 May 2022 / Ver. 2.03

SAI Global File #004008 Burlington, Ontario, Canada

8481

oil proof particulate respirators or filter masks.

> **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. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Liquid	Lower Flammability Limit	Not available
Appearance	Black, grease	Upper Flammability Limit	Not available
Odor	Odorless	Vapor Pressure @20°C	Not available
Odor Threshold	Not applicable	Vapor Density	Not available
pH	Not available	Relative Density @25°C	1.03
Freezing/Melting Point	Not available	Solubility in Water	slightly soluble
Initial Boiling Point	Not available	Partition Coefficient n-octanol/water	Not available
Flash Point a)	285 °C [545 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability	Non Flammable	Viscosity @40 °C	610 000 cSt

a) Cleveland Open Cup



SAI Global File #004008 Burlington, Ontario, Canada

8481

Section 10: Stability and Reactivity

Reactivity Not available

Chemical Stability

Chemically stable at normal temperatures and pressures

Conditions to

Ignition sources, open flames, excessive heat, and incompatible

Avoid

substances

Incompatibilities

Strong oxidizing agents

Polymerization

Will not occur

Decomposition

Will not decompose under normal conditions. For thermal

decomposition, see combustion products in Section 5.

Section 11: Toxicological Information

Summary of Effects and Symptoms by Routes of Exposure

Eyes Low toxicity: may cause redness and mild irritation.

Skin Low toxicity: may cause mild skin irritation.

Inhalation None expected under normal conditions. When heated to extreme

temperatures, product fumes or combustion gases may result in

toxic gas emissions.

Ingestion Low toxicity: no symptoms known or expected. **Chronic** Low toxicity: no symptoms known or expected.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
carbon black	>15 g/kg	>3 g/kg	Not
	Rat	Rabbit	available
naphthenic acids, zinc salts	4 920 mg/kg	>2 g/kg	>11 600 mg/m³
	Rat	Rabbit	4 h Rat
amorphous fumed silica	3 160 mg/kg	≥2 000 mg/kg	Not
	Rat	Rabbit ^{b)}	available

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

b) Value from supplier SDS

Section continued on the next page

Page **7** of **12**

Date: 04 May 2022 / Ver. 2.03



SAI Global File #004008 Burlington, Ontario, Canada

8481

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

Based on available data, the classification criteria are not

met.

(allergic reactions)

Carcinogenicity

(risk of cancer)

The carbon black [1333-86-4] is possibly carcinogenic by airborne routes of exposures under WHMIS.

is not available as an airborne hazard (dust) under normal

Because the carbon black is bound in the liquid mixture, it

use.

Carbon Black [1333-86-4]

IARC Group 2B: Possibly carcinogenic to humans ACGIH A4: Not classified as a human carcinogen

CA Prop 65: Listed as a carcinogen (airborne, as unbound

particles of respirable size)

NTP: Not listed

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

Mutagenicity

(risk of heritable genetic

effects)

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

Classification criteria are not met: the mixture does not contain Class 1 aspiration toxicants and its viscosity is

>20.5 mm²/s at 40 °C

Date: 04 May 2022 / Ver. 2.03



SAI Global File #004008 Burlington, Ontario, Canada

8481

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.

The synthetic oil is the predominant component and has very low environmental toxicity. 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.

The minor zinc naphtenate component has a LC50 96 h of 1.1 mg/L for Oncorhynchus mykiss (rainbow trout), an EC50 of 4.6 mg/L Daphnia magna, and EC50 0.48 mg/L algae.

Based on available data, carbon black is not classified as environmental hazards according to GHS criteria.

Acute Ecotoxicity

See chronic ecotoxicty

Chronic Ecotoxicity

Category 3

Harmful to aquatic life with long lasting effects.

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

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations) and **US DOT 49 CFR** (Parts 100 to 185) **Regulations**.

Not Regulated

Section continued on the next page



SAI Global File #004008 Burlington, Ontario, Canada

8481

Air

Refer to	ICAO-IATA	Dangerous	Goods	Regulations.
IXCICI CO	TOUC TUIL	Dallacious	Jours	IXCAUIULIOII3.

Not Regulated

Sea

Refer to IMDG Dangerous Goods Regulations.

Not Regulated

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL/NDSL.

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.

USA

Other Classifications

HMIS® RATING

HEALTH:	0
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)

Section continued on the next page

Page **10** of **12** Date: 04 May 2022 / Ver. 2.03

N Chemicals

ISO 9001:2015 Quality Management System

SAI Global File #004008 Burlington, Ontario, Canada

8481

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 products that are listed as hazardous air pollutants.

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

This product contains 2% zinc compounds which is 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)

This product contains carbon black, but it is bound and exposures during normal conditions of uses are below the Safe Harbor Threshold.

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.

Section 16: Other Information

SDS Prepared by Regulatory Department

Revision Date 04 May 2022 **Date of Preparation** 04 March 2020

Reason for Changes: Minor changes throughout the SDS.

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®)

Section continued on the next page

SAI Global File #004008 Burlington, Ontario, Canada

8481

Abbreviations

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

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Email: support@mgchemicals.com

Mailing Addresses Manufacturing & Support

1210 Corporate Drive Burlington, Ontario, Canada L7L 5R6

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