

SUPER CONTACT CLEANER (WITH PPE)

801B-AEROSOL

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Super Contact Cleaner (with PPE)**SDS Code:** 801B-Aerosol**Related Part #:** 801B-125G

### Recommended Use and Restriction on Use

**Use:** Cleans and protects contact pads**Uses Advised Against:** Do not use on live circuit

### 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**☎** 1-905-331-1396**FAX** 1-800-340-0773**FAX** 1-905-331-2682**E-MAIL:** [support@mgchemicals.com](mailto:support@mgchemicals.com)**E-MAIL:** [info@mgchemicals.com](mailto:info@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.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

**SUPER CONTACT CLEANER (WITH PPE)**

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**Section 2: Hazards Identification**

**Classification of Hazardous Chemical**

**WHMIS Classification**



A – Aerosol Container; B5 – Flammable Aerosols;  
D2B – Toxic Material (Skin Irritation)

**GHS Categories**

Hazard Class	Category	Signal Word	Pictograms	
Flammable Aerosol	2	Warning	Flame	
Gas under pressure	Liquefied gas	3	Warning	Gas cylinder
Aspiration Hazard	1	Danger	Health	

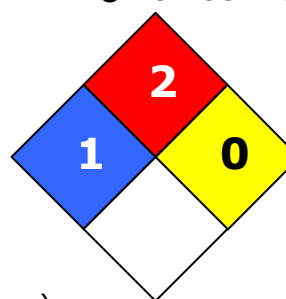
*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories do not allow comparisons between classes.

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>1</b>
<b>FLAMMABILITY:</b>	<b>2</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)

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**Label Elements**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H223: Flammable aerosol
	H280: Contains gas under pressure; may explode if heated
	H304: May be fatal if swallowed and enters airways
<b>Prevention</b>	<b>Precautionary Statements</b>
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use
<b>Response</b>	<b>Precautionary Statements</b>
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
<b>Storage</b>	<b>Precautionary Statements</b>
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents/container in accordance to local/regional/national/international regulations.

**Other Hazards**

Intentional misuse and inhalation abuse may cause cardiac or central nervous systems effects. Warning

Repeated exposure may cause skin dryness or cracking.

**SUPER CONTACT CLEANER (WITH PPE)**
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**Section 3: Hazardous Ingredients**

CAS #	Chemical Name	Wt%
64741-65-7	petroleum naphtha, heavy alkylate (mineral spirits)	60-70%
811-97-2	1,1,1,2-tetrafluoroethane	25%
8042-47-5	mineral oil used in metal working <sup>a)</sup>	3-5%
2455-71-2	five ring polyphenyl ether	1-2%

a) The base mixture includes mineral oils used in metal working. The following CAS numbers are related 8042-47-5, 64742-46-7, 64742-47-8, 64742-53-6, 64742-54-7, 64742-55-8, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 178603-64-0, 178603-65-1, 178603-66-2, 445411-73-4

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305, P351, P338, P313
<b>Immediate Symptoms</b>	<i>mild irritation</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 advice/attention.
<b>IF ON SKIN (or hair)</b>	P303 + P361+ P364 + P353 + P313
<b>Immediate Symptoms</b>	<i>dry skin, mild irritation</i>
<b>Response</b>	Wash with plenty of water.
<b>If skin irritation occurs</b>	Get medical advice/attention.
<b>IF INHALED</b>	P304 + P340 + P312
<b>Immediate Symptoms</b>	<i>respiratory system irritation, dizziness, drowsiness, headaches, weakness, unconsciousness</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.
<b>IF SWALLOWED</b>	P301 + P310 + P331 <i>(Not a likely route of exposure under normal use)</i>
<b>Immediate Symptoms</b>	<i>See inhalation symptoms</i>
<b>Response</b>	Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Section 5: Fire-Fighting Measures**

<b>Auto-ignition Temperature</b>	320 °C [608 °F]	<b>Flash Point</b> <sup>a)</sup>	51 °C [124 °F]	<b>LFL [LEL]</b> <sup>b)</sup>	1%
				<b>UFL [UEL]</b>	10%

**In case of fire** P370 + P378

**Extinguishing Media** Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.

**Specific Hazards** Vapors may accumulate in low-lying areas. Aerosol container may erupt with force at temperatures above 50 °C [122 °F]. Produces irritating and toxic fumes in fires or in contact with hot surfaces.

**Combustion Products** Produces carbon oxides (CO, CO<sub>2</sub>) halogenated, compounds, and hydrogen fluorides and smoke

**Fire-Fighter** Wear self-contained breathing apparatus for fire fighting

a) Pensky-Martens Closed Cup value

b) Limits based on mineral oil component (CAS# 8042-47-5):

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

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

**Section 6: Accidental Release Measures**

**Personal Protection** See Section 8. Avoid breathing the mist/vapors.

**Containment** Remove all sources of ignition. Prevent spill from entering drains and waterways.

Contain with inert absorbent (such as soil, sand, vermiculite).

**Cleaning** Collect liquid 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** Dispose of spill waste according to Section 13.

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**Section 7: Handling and Storage**

- Prevention**      Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source.
- Do not get in eye, on skin, or on clothing.
- Do not eat, drink, or smoke when using this product.
- Avoid breathing fume/mist/vapors. Use only outdoors or in well ventilated area. In cases of inadequate ventilation wear respiratory protection.
- Handling**        Wear protective gloves/clothing/eye protection.
- Wash hands thoroughly after handling.
- Storage**          Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F]. Keep in well ventilated room.

**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)
Petroleum Naphtha, Heavy Alkylate	Supplier Canada ON	1200 mg/m <sup>3</sup> 525 mg/m <sup>3</sup>	Not established Not established
1,1,1,2-tetrafluoroethane	MG Chemicals <sup>a)</sup> ACGIH Canada	1,000 ppm Not established Not established	Not established Not established
Mineral oil / metal working oil (mist)	ACGIH Canada QC Canada ON Canada BC	5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>	Not established 10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> Not established
Polyphenyl Ether	ACGIH	Not established	Not established

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>2</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) Supplier calculated exposure limit

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**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Engineering Controls**

**Ventilation** Keep airborne concentrations below exposure limits.

**Personal Protective Equipment**

- Eye protection** Wear appropriate protective eyeglasses or chemical safety goggles.  
**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).
- Skin Protection** Wear appropriate protective clothing to prevent skin contact.  
**RECOMMENDATION:** Use of protective gloves in butyl rubber, nitrile rubber, or other chemically resistant gloves.
- Respiratory Protection** If exposed to mist, wear respirator such as a half-mask respirator.  
**RECOMMENDATION:** Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is 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.

**SUPER CONTACT CLEANER (WITH PPE)**
**801B-AEROSOL**
**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b> <sup>b)</sup>	1%
<b>Appearance</b>	Clear, light yellow	<b>Upper Flammability Limit</b> <sup>b)</sup>	10%
<b>Odor</b>	Slight hydrocarbon	<b>Vapor Pressure @ 20 °C</b>	0.5 mmHg [0.07 kPa]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	~5 (Air =1)
<b>pH</b>	Not available	<b>Specific Gravity</b>	0.81
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	insoluble
<b>Boiling Point</b>	175 °C [347 °F]	<b>Partition Coefficient</b>	Not established
<b>Flash Point</b> <sup>a)</sup>	51 °C [124 °F]	<b>Auto-ignition Temperature</b>	320 °C [608 °F]
<b>Evaporation Rate</b>	moderate	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable	<b>Viscosity @40 °C</b>	≤20.5 mm <sup>2</sup> /s

a) Pensky-Martens Closed Cup value

b) Limits based on mineral oil component (CAS# 8042-47-5)

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Misting, ignition sources, temperatures above 40 °C [104 °F]), and incompatible substances.
<b>Incompatibilities</b>	Strong oxidizing agents, alkali or alkali earth metals
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5



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**Section 11: Toxicological Information**

**Routes of Exposure**

Eyes, ingestion, inhalation, and skin

**Symptoms Summary**

**Eyes** May cause mild eye irritation.

**Skin** May cause mild to moderate skin irritation.

**Inhalation** Overexposure to propellant may lead to visual impairment and central nervous system effects such as dizziness, drowsiness, or weakness

**Ingestion** Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. See inhalation symptoms.

**Chronic** Not applicable.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>	<b>TCLo inhalation <sup>a)</sup></b>
Petroleum Naphta, Heavy Alkylate	>7 600 mg/kg Rat <sup>a)</sup>	>3 040 mg/kg Rabbit <sup>a)</sup>	>5.9 mg/L 4h Rat <sup>a)</sup>	Not available
1,1,1,2-tetrafluoroethane	Not available	Not available	1,500 g/m <sup>3</sup> 4 h Rat	Not available
Mineral oil / metal working oil (mist)	>5 000 mg/kg Rat	Not available	Not available	Not available
Propylene ether	>34 600 mg/kg Rat <sup>a)</sup>	>34 600 mg/kg Rabbit <sup>a)</sup>	>47 mg/L 4 h Rat <sup>b)</sup>	Not available

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.

a) Data from supplier MSDS

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**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Not available
<b>Serious eye damage/irritation</b>	Not available
<b>Sensitization</b> (allergic reactions)	None known or expected
<b>Carcinogenicity</b> (risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP
<b>Mutagenicity</b> (risk of heritable genetic effects)	Not available
<b>Reproductive Toxicity</b> (risk to sex functions)	Not available
<b>Teratogenicity</b> (risk of fetus malformation)	Not available
<b>STOT-single exposure</b>	Can affect the central nervous system and cardiovascular systems by inhalation at extreme doses that do not give rise to classification
<b>STOT-repeated exposure</b>	Not available
<b>Aspiration hazard</b>	Mixture is a class 1 aspiration hazard. It contains over 10% class 1 aspiration hazard components and has a mixture viscosity of $<20.5 \text{ mm}^2/\text{s}$ at $40 \text{ }^\circ\text{C}$ .

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Section 12: Ecological Information**

The ecotoxicity of the mixture was estimated by the calculation method using the summation of classified ingredients. The IMDG Code criteria and the raw-material MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

Supplier safety data sheet all report low aquatic toxicity or no data available. The product will float on water. Prevent product from entering drains or waterways.

**Acute Ecotoxicity**

Data insufficient for classification

**Chronic Ecotoxicity**

Data insufficient for classification

**Biodegradability**

Major components are biodegradable.

**Bioaccumulative Potential**

Not available

**Mobility in Soil**

Not available

**Other Effects**

Regulated Volatile Organic Content (WHMIS/EU-VOC/LVP exemption)\* = 45% (345 g/L)

Regulated Volatile Organic Content (EPA-VOC) = 75% (578 g/L)

*\*The Canadian WHMIS and European VOC use boiling point exemptions, and the California consumer product uses the Low Vapor Pressure (LVP) exemption*

**Section 13: Disposal Information**

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

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Section 14: Transport Information****Ground**

**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);  
**USA 49 CFR Regulations** (Parts 100 to 185).

**Limited Quantity****UN number:** UN1950**Shipping Name:** AEROSOL,  
flammable**Class:** 2.1**Packing Group:** not applicable**Marine Pollutant:** No**Air**

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

**UN number:** UN1950**Shipping Name:** AEROSOL,  
flammable**Class:** 2.1**Packing Group:** not applicable**Marine Pollutant:** No**Sea**

**Refer to IMDG Regulations.**

**Limited Quantity****UN number:** UN1950**Shipping Name:** AEROSOL,  
flammable**Class:** 2.1**Packing Group:** not applicable**Marine Pollutant:** No

**Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.**

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Section 15: Regulatory Information****Canada****Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

**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.

**Health Canada**

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

**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 substances that are listed as hazardous air pollutants.

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

This product does not contain ingredients that have a reporting quantity requirements in 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 does not contain any of the listed substances.

**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.

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Section 16: Other Information**

**MSDS Prepared by** Michel Hachey  
**Date of Issue** 05 March 2014  
**Supersedes** 12 November 2013  
**Reason for Changes:** Change to Hazcom 2012 format.

**References**

- 1) ACGIH 2013 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 (2013).
- 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)  
GHS Globally Harmonized System of Classification of Labeling of Chemicals  
LC50 Lethal Concentration 50%  
LCLo Lowest published lethal concentration  
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).

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**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.