

SUPER CONTACT CLEANER (WITH PPE)

801B-AEROSOL

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

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

### Recommended Use and Restriction on Use

**Use:** Contact cleaner**Uses Advised Against:** Do not use on live circuits

### Details of Manufacturer or Importer

**Manufacturer**MG 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](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 accidentsUSA or CANADA: Call CHEMTREC ☎: **+1-800-424-9300****For emergencies involving dangerous goods;** Collect 24/7CANADA: Call CANUTEC ☎: **+1-613-996-6666** or **\*666** on cellular phones

**SUPER CONTACT CLEANER (WITH PPE)**
**801B-AEROSOL**
**Section 2: Hazard(s) Identification**
**Classification of Hazardous Chemical**
**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Aspiration Hazard	1	Danger	Health
Flammable Aerosol	2	Warning	Flame
Gas Under Pressure	Liquefied gas	Warning	Gas cylinder
Skin Irritation	2	Warning	Exclamation
Specific Target Organ Toxicity      Single Exposure	3	Warning	Exclamation
Hazardous to Aquatic Environment      Chronic	2	none	Environment

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

**Label Elements**



<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H304: May be fatal if swallowed and enters airways
	H223: Flammable aerosol
	H280: Contains gas under pressure: may explode if heated

*Section continued on the next page*

**SUPER CONTACT CLEANER (WITH PPE)**

**801B-AEROSOL**

*Continued...*

Pictograms	Hazard Statements
	<p>H315: Causes skin irritation H336: May cause drowsiness and dizziness</p>
	<p>H411: Toxic to aquatic life with long lasting effects</p>
Prevention	Precautionary Statements
<p>P102 P261 P271 P210 P211 P251 P280 P264 P273</p>	<p>Keep out of reach of children. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wear protective gloves/clothing/eye protection. Wash hands thoroughly after handling. Avoid release to the environment.</p>
Response	Precautionary Statements
<p>P301 + P310, P331 P302 + P352 P332 + P313 P362 + P364 P304 + P340, P312</p>	<p>IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.</p>

*Section continued on the next page*

**SUPER CONTACT CLEANER (WITH PPE)**
**801B-AEROSOL**
*Continued...*

<b>Storage</b>	<b>Precautionary Statements</b>
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].
P403	Store in well-ventilated place.
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents/container in accordance to local/regional/international regulations.

**Hazards Not Otherwise Classified**

<b>Other Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

**Section 3: Composition/Information on Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
64742-48-9	petroleum naphtha, heavy alkylate (mineral spirits)	77%
811-97-2	1,1,1,2-tetrafluoroethane <sup>a)</sup>	16%
8042-47-5 <sup>b)</sup>	mineral oil used in metal working	4%

a) Also known as HFC-134a

b) All components are listed or exempted. The base mixture has the following CAS numbers: 8042-47-5, 64742-46-7, 64742-47-8, 64742-47-9, 64742-53-6, 64742-55-8, 64742-56-9, 68551-19-9, 8042-47-5, 848301-69-9, 90622-46-1, 90622-53-0, 90622-58-5

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF SWALLOWED</b>	P301 + P310, P331
<b>Immediate Symptoms</b>	<i>cough, diarrhea, sore throat, vomiting, dizziness, headache, drowsiness, nausea, unconsciousness</i>
<b>Response</b>	Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

*Section continued on the next page*

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL***Continued...*

<b>IF ON SKIN</b>	P302 + P352, P332 + P313, P362 + P364
<b>Immediate Symptoms</b>	<i>dry skin, redness, irritation</i>
<b>Response</b>	Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
<b>IF INHALED</b>	P304 + P340, P312
<b>Immediate Symptoms</b>	<i>dizziness, headache, drowsiness, nausea, unconsciousness</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
<b>IF IN EYES</b>	P305 + P351 + P338
<b>Immediate Symptoms</b>	<i>redness</i>
<b>Response</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Use water spray to cool containers.
<b>Specific Hazards</b>	Aerosols containers may erupt with force at temperatures above 50 °C [122 °F]. Produces irritating and toxic fumes in fires or in contact with hot surfaces. The vapors are heavier than air and may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion. Prevent fire-fighting wash from entering waterway or sewer system.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), halogenated compounds, and hydrogen fluorides.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
<b>Precautions for Response</b>	Avoid breathing the mist/spray/vapors. Remove or keep away all sources of extreme heat or open flames.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment Methods</b>	Not applicable
<b>Cleaning Methods</b>	Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wash spill area with soap and water to remove the last traces of residue.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not pierce or burn, even after use. Avoid release to the environment.
<b>Handling</b>	Do not spray on an open flame or other ignition source. Wear protective gloves/protective clothing/eye protection. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling.
<b>Storage</b>	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F]. Store in well-ventilated place. Store locked up.

**SUPER CONTACT CLEANER (WITH PPE)**

**801B-AEROSOL**

**Section 8: Exposure Controls/Personal Protection**

**Substances with Occupational Exposure Limit Values**

Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1,1,1,2-tetrafluoroethane	MG Chemicals <sup>a)</sup> ACGIH U.S.A. OSHA PEL Canada	1 000 ppm Not established Not established Not established	Not established Not established Not established Not established
white mineral oil (petroleum)	ACGIH U.S.A. OSHA PEL U.S.A WEEL <sup>b)</sup> Canada AB Canada BC <sup>c)</sup> Canada ON Canada QC	5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 1 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	(10 mg/m <sup>3</sup> ) <sup>c)</sup> Not established 10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> Not established 10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from RTECS database<sup>2</sup> and data 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) MG Chemicals recommended limit corresponding to prevalent international threshold values
- b) Workplace Environmental Exposure Limit
- c) Based on oil mist, severely refined value.

**Engineering Controls**

**Ventilation**

Keep airborne concentrations below the occupational exposure limits (OEL).

*Section continued on the next page*

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

For incidental contacts, use nitrile or other chemically resistant gloves.

**Respiratory Protection**

For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges.

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. 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, in an aerosol format	<b>Lower Flammability Limit</b>	0.7%
<b>Appearance</b>	Colorless	<b>Upper Flammability Limit</b>	5.3%
<b>Odor</b>	Slight hydrocarbon	<b>Vapor Pressure @20 °C</b>	0.5 hPa [0.4 mmHg]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	~5 (Air =1)
<b>pH</b>	Not available	<b>Specific Gravity @15.5 °C</b>	0.77
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Insoluble
<b>Boiling Point</b>	183 °C [356 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point</b>	58 °C [136 °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 available	<b>Viscosity @40 °C</b>	<20.5 mm <sup>2</sup> /s

**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>	Temperatures above 50 °C [122 °F], open flames, and incompatible substances
<b>Incompatibilities</b>	Strong oxidizing agents, alkali or alkali earth metals, powdered aluminum, zinc, magnesium, and beryllium
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Section 11: Toxicological Information****Routes of Exposure**

Eye Contact, Ingestion, Inhalation, and Skin Contact

**Symptoms Summary**

<b>Eyes</b>	May cause redness.
<b>Inhalation</b>	May cause dizziness, headache, drowsiness, nausea, and/or unconsciousness.
<b>Ingestion</b>	May cause cough, diarrhea, sore throat and/or vomiting. (also see inhalation symptoms).
<b>Skin</b>	May cause dry skin, redness, and irritation.
<b>Chronic</b>	Prolonged or repeated exposure may cause skin dryness, cracking, as well as defatting the skin.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
petroleum naphtha, heavy alkylate (mineral spirits)	>5 000 mg/kg Rat	>5 000 mg/kg Rat	>5 000 mg/m <sup>3</sup> Rat <sup>a)</sup>
1,1,1,2-tetrafluoroethane	Not established	Not established	1 500 g/m <sup>3</sup> 4 h Rat
mineral oil used in metal working	>5 000 mg/kg Rat	Not established	Not established

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier (M)SDS were also consulted.

a) Data from supplier (M)SDS

*Section continued on the next page*

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

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met.
<b>Sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b> (risk of cancer)	Based on available data, the classification criteria are not met.
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Petroleum naphtha, heavy alkylate may affect the central nervous system.
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Mixture is a class 1 aspiration hazard. It contains 81.5% class 1 aspiration hazard components and has a mixture viscosity of <math><20.5 \text{ mm}^2/\text{s}</math> at 40 °C.

**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 1,1,1,2-tetrafluoroethane substance is not classifiable as an environmental toxicant.

According to data available, white mineral oil is not classifiable as a danger to the aquatic environment.

**Acute Ecotoxicity**

Available toxicity data does not meet classification thresholds.

*Section continued on the next page*

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****Chronic Ecotoxicity**

Category 2

Harmful to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

**Biodegradability**

Not available

**Other Effects**

Actual VOC (Volatile Organic Compounds) content according to the US (EPA) and Canadian (CEPA) authorities.

Actual VOC = 84% [647 g/L]

**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);  
**USA CFR 49 Regulations** (Parts 100 to 185).**Limited Quantity****UN number:** UN1950**Shipping Name:** AEROSOL,  
flammable**Class:** 2.1**Packing Group:** Not applicable**Marine Pollutant:** Yes*Section continued on the next page*

**SUPER CONTACT CLEANER (WITH PPE)**

**801B-AEROSOL**

**Air**

Refer to ICAO-IATA Dangerous Goods Regulations.

**Limited Quantity**

See package instruction Y203



Max Net Qty/Pkg  
30 kg G

**UN number:** UN1950

**Shipping Name:** AEROSOL,  
flammable

**Class:** 2.1

**Packing Group:** Not applicable

**Marine Pollutant:** Yes



**Sea**

Refer to IMDG regulations.

**Limited Quantity**



**UN number:** UN1950

**Shipping Name:** AEROSOL,  
flammable

**Class:** 2.1

**Packing Group:** Not applicable

**Marine Pollutant:** Yes

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

**Section 15: Regulatory Information**

**Canada**

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

All hazardous ingredients are listed on the DSL.

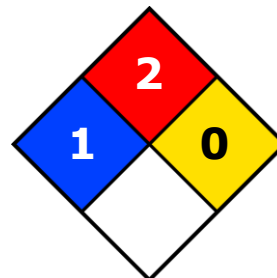
**Hazardous Products Act (R.S.C., 1985, c. H-3)**

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

*Section continued on the next page*

**SUPER CONTACT CLEANER (WITH PPE)****801B-AEROSOL****USA****Other Classifications****HMIS<sup>®</sup> 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<sup>®</sup> 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 products 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 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, June 06, 2014 revision, USA).

This product does not contain any substances known to be listed in California.

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

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, 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.

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

<b>SDS Prepared by</b>	Regulatory department
<b>Date of Review</b>	10 February 2017
<b>Supersedes</b>	26 May 2016
<b>Reason for Changes:</b>	Reclassification in accordance new supplier composition.

**Reference**

- 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)
ECHA	European Chemicals Agency
EU	European Union
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

*Section continued on the next page*



Quality System Certified to ISO 9001:2008

SAI Global File #004008  
Burlington, Ontario, Canada

## SUPER CONTACT CLEANER (WITH PPE)

## 801B-AEROSOL

**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)

**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.