

801B-LIQUID

SUPER CONTACT CLEANER (WITH PPE) 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-Liquid
Related Part # 801B-100ML

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

a 1-800-340-0772
 FAX 1-800-340-0773
 E-MAIL: <u>support@mgchemicals.com</u>
 WEB <u>www.mgchemicals.com</u>

MG Chemicals (Head Office) 9347-193 Street Surrey, British Columbia V4N 4E7 CANADA

1-905-331-1396
 Fax 1-905-331-2682
 E-MAIL: info@mgchemicals.com

E-маіL (Competent Person): 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



801B-LIQUID

Section 2: Hazards Identification

Classification of Hazardous Chemical

WHMIS Classification



B3 – Combustible Liquid; D2B – Toxic Material (Skin Irritation)

GHS Categories

Hazard Class		Category	Signal Word	Pictograms
Flammable Liquid		3	Warning	Flame
Aspiration Hazard		1	Danger	Health
Skin irritation Specific Target Organ Toxicity	Single Exposure	2 3	Warning Warning	Exclamation Exclamation

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

HEALTH:	1
FLAMMABILITY:	2
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

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

Signal Word	DANGER			
Pictograms	Hazard Statements			
	H226: Flammable liquid or vapors			
	H304: May be fatal if swallowed and enters airways			
	H315: Causes skin irritation H336: May cause drowsiness and dizziness			
Prevention	Precautionary Statements			
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.			
P233	Keep container tightly closed.			
P240	Ground/bond container and receiving equipment.			
P242 + P241 + P243	Use only non-sparking tools. Use explosion-proof electrical/ventilating/ lighting equipment. Take precautionary measures against static discharge.			
P261 + P271	Avoid breathing mist/vapors/spray. Use only outdoors or in well ventilated area.			
Response	Precautionary Statements			
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or			
	water spray to extinguish.			
P301 + P310 + P331	water spray to extinguish. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.			
	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.			
P331 P303 + P361 +	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing and			
P331 P303 + P361 + P364 + P352	IF SWALLOWED: Immediately call a POISON CENTER/doctor.Do NOT induce vomiting.IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water/shower.			



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Storage	Precautionary Statements
P403 + P235	Store in well ventilated place. Keep cool.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/national/international regulations.

Other Hazards

Repeated exposure may cause skin dryness or cracking.

Section 3: Hazardous Ingredients

CAS #	Chemical Name	Wt%
64741-65-7	petroleum naphtha, heavy alkylate (mineral spirits)	60-70%
64742-47-8	Distillates (petroleum) hydrotreated light	23-26%
8042-47-5	mineral oil used in metal working a)	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



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Section 4: First-Aid Measures				
Exposure Condition	GHS Code: Precautionary Statement			
IF IN EYES	P305, P351, P338, P313			
Immediate Symptoms	mild irritation			
Response If eye irritation persists	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.			
IF ON SKIN (or hair)	P303 + P361 + P364 + P352, P353 + P313			
Immediate Symptoms	dry skin, irritation			
Response If skin irritation occurs	Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water. Get medical advice/attention.			
IF INHALED	P304 + P340 + P312			
Immediate Symptoms	respiratory system irritation, dizziness, drowsiness, headaches, weakness, unconsciousness			
Response	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.			
IF SWALLOWED	P301 + P310 + P331 (Not a likely route of exposure under normal use)			
Immediate Symptoms	See inhalation symptoms			
Response	Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.			



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Section 5: Fire-Fighting Measures				
Auto-ignition320 °CTemperature[608 °]	Flash Point a) 51 °C LFL [LEL] b) 1% [124 °F] UFL [UEL] 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.			
Combustion Products	Produces carbon oxides (CO, CO_2) 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 vapors/mist/spray. 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	Store locked up in a well-ventilated place. Keep cool.

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 Naphta,	Supplier	1200 mg/m ³	Not established
Heavy Alkylate	Canada ON	525 mg/m ³	Not established
Mineral oil /	ACGIH	5 mg/m ³	Not established
metal working oil	Canada QC	5 mg/m ³	10 mg/m ³
(mist)	Canada ON	5 mg/m ³	10 mg/m ³
	Canada BC	1 mg/m ³	Not established
Polyphenyl Ether	ACGIH	Not established	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database² 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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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.



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Section 9:	Physical and	Chemical Pro	perties
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Physical State	Liquid	Appearance	Clear, light yellow
Odor	Slight hydrocarbon	Odor Threshold	Not available
рН	Not available	Specific Gravity	0.81
Solubility in Water	insoluble	Freezing/Melting Point	Not available
Flash Point ^{a)}	51 °C [124 °F]	Vapor Pressure @ 20 °C	0.5 mmHg [0.07 kPa]
Boiling Point	175 °C [347 °F]	Evaporation Rate	moderate
Lower Flammability Limit ^{b)}	1%	Upper Flammability Limit ^{b)}	10%
Auto-ignition Temperature	320 °C [608 °F]	Decomposition Temperature	Not available
Viscosity @40 °C	≤20.5 mm²/s	Vapor Density	~5 (Air =1)
Partition Coefficient	Not established		

a) Pensky-Martens Closed Cup value

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

Section 10: Stability and Reactivity

Stabilities	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Misting, ignition sources, temperatures above 40 °C [104 °F]), and incompatible substances.
Incompatibilities	Strong oxidizing agents, alkali or alkali earth metals
Polymerization	Will not occur
Decomposition	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)

Chemical Name	LD50	LD50	LC50	TCLo
	oral	dermal	inhalation	inhalation ^{a)}
Petroleum Naphta,	>7 600 mg/kg	>3 040 mg/kg	>5.9 mg/L	Not
Heavy Alkylate	Rat ^{a)}	Rabbit ^{a)}	4h Rat ^{a)}	available
Distillates (petroleum)	>8 000 mg/kg	>4 000 mg/kg	2 500 ppm	Not
hydrotreated light	Rat ^{a)}	Rabbit ^{a)}	4 h Rat	available
Mineral oil / metal	>5 000 mg/kg	Not	Not	Not
working oil (mist)	Rat	available	available	available
Propylene ether	>34 600 mg/kg	>34 600 mg/kg	>47 mg/L	Not
	Rat ^{a)}	Rabbit ^{a)}	4 h Rat ^{b)}	available

Note: Representative toxicity data from from the RTECS¹ database and data from supplier MSDS were also consulted.

a) Data from supplier MSDS

b) Supplier lethal concentration 50 (LC50) value; no observed death at this highest possible concentration achievable by heating to 329 °C.

Other Toxicological Effects

Skin corrosion/irritation Not available

Serious eye damage/irritation Not available

Sensitization

None known or expected

(allergic reactions)



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Mutagenicity (risk of heritable genetic effects)	Not available
Reproductive Toxicity (risk to sex functions)	Not available
Teratogenicity (risk of fetus malformation)	Not available
STOT-single exposure	Can affect the central nervous system and cardiovascular systems by inhalation at extreme doses that do not give rise to classification
STOT-repeated exposure	Not available
Aspiration hazard	Mixture is a class 1 aspiration hazard. It contain over 10% class 1 aspiration hazard components and has a mixture viscosity of <20.5 mm ² /s at 40 °C.

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 (<u>http://echa.europa.eu</u>) 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)

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



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

Sizes 5 L and under

Limited Quantity



Sizes greater than 5 L

UN number: UN1268 Shipping Name: PETROLEUM DISTILLATE, N.O.S. (petroleum naphtha, heavy alkylate) Class: 3 Packing Group: III Marine Pollutant: Yes



Air

Refer to ICAO-IATA Dangerous Goods Regulations.		
Sizes 10 L and under	Sizes up to 10 L (passenger) or 60 L (cargo)	
Limited Quantity	UN number: UN1268 Shipping Name: PETROLEUM DISTILLATE, N.O.S. (petroleum naphtha, heavy alkylate) Class: 3 Packing Group: III Marine Pollutant: Yes	

Section continued on the next page



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Sea

Refer to IMDG regulations.

Sizes greater than 5 L

Limited Quantity

Sizes 5 L and under



UN number: UN1268 Shipping Name: PETROLEUM DISTILLATE, N.O.S. (petroleum naphtha, heavy alkylate) Class: 3 Packing Group: III Marine Pollutant: Yes



Note: Shipper must be appropriately <u>trained and certified</u> 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/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.



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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.

Section 16: Other Information

MSDS Prepared by	Michel Hachey
Date of Issue	12 November 2013
Supersedes	16 May 2011
Reason for Changes:	Change to GHS 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®)



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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 <u>www.mgchemicals.com</u>.

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