

SAI Global File #004008

Burlington, Ontario, Canada

801C-LIQUID

## SUPER CONTACT CLEANER

# Safety Data Sheet

## **Section 1: Product and Company Identification**

## **Product Identifier and Other Means of Identification**

Product Name: Super Contact Cleaner MSDS Code: 801C-Liquid

Related Part #: 801C-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** 

1-800-340-0772 **FAX** 1-800-340-0773

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

**WEB** www.mgchemicals.com

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

CANADA

**1**-905-331-1396 Fax 1-905-331-2682

**E-MAIL:** <u>info@mqchemicals.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 CHEMTREC ☎: 1-800-424-9300

For emergencies involving dangerous goods; Collect 24/7

CANADA: Call CANUTEC **2**: 1-613-996-6666 or \*666 on cellular phones

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## **Section 2: Hazards Identification**

## **Classification of Hazardous Chemical**

#### **WHMIS Classification**





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

## **GHS Categories**

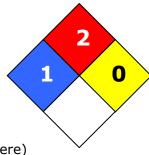
Criteria		Category	Signal Word	Pictograms
Flammable Liquids		3	Warning	
Aspiration Hazard		1	Danger	
Skin Irritation		2	Warning	^
Specific Target Organ Toxicity	Single Exposure	3	Warning	<b>(!)</b>

## **Other Classifications**

## **HMIS® RATING**

HEALTH:	1
FLAMMABILITY:	2
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)

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## **Label Elements**

Signal Word	DANGER
Pictograms	Hazard Statements
	H226: Flammable liquid and vapor
	H315: Causes skin irritation H336: May cause drowsiness and dizziness
	H304: May be fatal if swallowed and enters airways
	Precautionary Statements
Prevention	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.
	P280: Wear protective gloves/eye protection.
	P264: Wash hands thoroughly after handling.
	P261: Avoid breathing gas/vapors/mist/spray.
	P271: Use outdoors or in a well-ventilated area.
Response	P370 + P378: In case of fire: Use dry chemical, carbon dioxide, or chemical foam to extinguish.
	P303 + P361+ P364 +P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower.
	P304+ P340 + P312: IF INHALED: Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
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**Storage** P403 + P235: Store in well ventilated place. Keep cool.

P405: Store locked up.

**Disposal** 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	petroleum hydrotreated light	25-30%
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  IF IN EYES	GHS Code: Precautionary Statement P305		
Symptoms	Immediate: irritation, redness		
Response	P351: Rinse cautiously with water for several minutes. P338: Remove contact lenses, if present and easy to do. Continue rinsing.		
If eye irritation persists	P313: Get medical advice/attention.		
IF ON SKIN (or hair)	P303		
Symptoms	Immediate: irritation, dry skin, redness		
Response	P361+ P364: Take off immediately all contaminated clothing and was it before reuse. P353: Rinse skin with water/shower.		
If skin irritation occurs	P313: Get medical advice/attention.		
IF INHALED	P304		
Symptoms	Immediate: respiratory system irritation, dizziness, drowsiness, headaches, weakness, unconsciousness		
Response	P340: Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.		
If feeling unwell	P312: Call a POISON CENTRE/doctor.		
IF SWALLOWED	P301 (Not a likely route of exposure under normal use)		
Symptoms	Immediate: respiratory system irritation, nausea, headaches, weakness, unconsciousness		
Response	P310: Immediately call a POISON CENTER/doctor P331: Do NOT induce vomiting.		



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## **Section 5: Fire-Fighting Measures**

Auto-ignition $216 \, ^{\circ}\text{C}$ Flash Point  $^{a)}$  $54 \, ^{\circ}\text{C}$ LFL [LEL]  $^{b)}$ 1%Temperature $[421 \, ^{\circ}\text{F}]$  $[130 \, ^{\circ}\text{F}]$ UFL [UEL]10%

**In case of fire** P370

**Response** P378: Use dry chemical, carbon dioxide, or chemical foam to

extinguish. Use water spray to cool containers.

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

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

**General Information** Vapors may accumulate in low-lying areas.

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.

**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 towels or rags and place dirty materials in

container. Wash remaining residues with soap and water.

**RECOMMENDATION:** Use containers resistant to petroleum fuel or oil products.

**Disposal** Dispose of spill waste according to Section 13.



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## Section 7: Handling and Storage

**Prevention** P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P211: Do not spray on an open flame or other ignition source.

P262: Do not get in eye, on skin, or on clothing.

P270: Do not eat, drink, or smoke when using this product.

P261 + P271 + P284: Avoid breathing fume/mist/vapors. Use only outdoors or in well ventilated area. In cases of inadequate ventilation wear respiratory

protection.

**Handling** P280: Wear protective gloves/clothing/eye protection.

P264: Wash hands thoroughly after handling.

**Storage** P235: Keep cool.

**RECOMMENDATION:** Keep in well ventilated room. Do not expose sealed

container to temperatures exceeding 40 °C [104 °F].

## **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, Heavy Alkylate (Mineral Spirits)	Supplier Canada ON	1200 mg/m <sup>3</sup> 525 mg/m <sup>3</sup>	Not established Not established
Petroleum Hydrotreated Light (aerosol)	ACGIH Canada BC Canada ON	200 mg/m <sup>3</sup> 200 mg/m <sup>3</sup> 525 mg/m <sup>3 a)</sup>	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>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) 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 Properties				
Physical State	Liquid	Appearance	Clear, light yellow	
Odor	Slight hydrocarbon	Odor Threshold	Not available	
pH	Not available	Specific Gravity	0.77	
Solubility in Water	Slightly soluble	Freezing/Melting Point	Not available	
Flash Point a)	54 °C [129 °F]	Vapor Pressure @ 20 °C	0.5 mmHg [0.07 kPa]	
Boiling Point	175 °C [347 °F]	Evaporation Rate	moderate	
Lower Flamma- bility Limit <sup>b)</sup>	1%	Upper Flamma- bility Limit <sup>b)</sup>	10%	
Auto-ignition Temperature	216 °C [421 °F]	Decomposition Temperature	Not available	
Viscosity @40 °C	Not established	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** Misting, ignition sources, temperatures above 40 °C [104 °F]), and

**Avoid** incompatible substances.

**Incompatibilities** Strong oxidizing agents; may react with nitrites or nitrostating agents

to form of nitrosamines. Nitrosamines cause cancer in animal studies.

**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** None known

**Skin** Cause mild to moderate skin irritation.

**Inhalation** Overexposure 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>	LD50 oral	LD50 dermal	LC50 inhalation	TCLo inhalation a)
Petroleum Naphta,	>7 600 mg/kg	>3 040 mg/kg	>5.9 mg/L	Not
Heavy Alkylate	Rat <sup>a)</sup>	Rabbit <sup>a)</sup>	4h Rat <sup>a)</sup>	available
Petroleum Hydrotreated	>8 000	>4 000	>2 500 ppm	Not
Light	mg/kg Rat	mg/kg Rabbit	4h Rat <sup>a)</sup>	available
Mineral oil / metal working oil (mist)	>5 000 mg/kg	Not	Not	Not
	Rat	available	available	available
Propylene ether	>34 600 mg/kg	>34 600 mg/kg	>47 mg/L	Not
	Rat <sup>a)</sup>	Rabbit <sup>a)</sup>	4 h Rat <sup>b)</sup>	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.

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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.



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**Skin corrosion/irritation** Skin irritant

**Serious eye damage/irritation** No data available

**Sensitization** None known or expected

(allergic reactions)

**Carcinogenicity** Not classified or listed as a carcinogen by IARC, ACGIH,

(risk of cancer) CA Prop 65, or NTP

Mutagenicity No data available

(risk of heritable genetic effects)

**Reproductive Toxicity** (risk to No data available

sex functions)

**Teratogenicity** No data available (risk of fetus malformation)

**STOT-single exposure** Inhalation may affect the central nervous system

causing narcotic effects

STOT-repeated exposure No data 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<sup>2</sup>/s at 40 °C.



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## **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 (<a href="http://echa.europa.eu">http://echa.europa.eu</a>) 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)\* = 68% (524 g/L)

Regulated Volatile Organic Content (EPA-VOC) = 100% (770 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**

P501: Dispose of contents in accordance with all local, regional, national, and international regulations.



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## **Section 14: Transport Information**

#### Ground

**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations); USA CFR 49 Regulations (Parts 100 to 185). ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road, and ADN (Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways).

## **Limited Quantity**

**IMDG marking: LTD QTY** 



## Air

## Refer to ICAO-IATA Dangerous Goods Regulations.

UN number: UN1268

Shipping Name: PETROLEUM DISTILLATE, N.O.S.

(petroleum naphtha, heavy alkylate)

Class: 3

Packing Group: III Marine Pollutant: No



Note: The 801C-P product size falls under the E1 30g/30ml inner packaging limit and may be shipped as 'DG in Excepted Quantities'. Refer to Package Mark 2.6.7.1 in **IATA** for further instruction. Document as Class **E1**.

#### Sea

## Refer to IMDG regulations.

**IMDG Marking:** LTD QTY

UN number: UN1268

**Shipping Name:** PETROLEUM DISTILLATE, N.O.S.

(petroleum naphtha, heavy alkylate)

Class: 3

Packing Group: III Marine Pollutant: No



Note: Component supplier SDS transportation sections and labeling were consulted. All involved staff of shipper must be appropriately trained before involvement with the transport of this product, or work under direct supervision of a trained person.



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## **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.



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## **Section 16: Other Information**

MSDS Prepared by Michel Hachey

Date of Issue 29 July 2013

Supersedes Not applicable.

Reason for Changes: Not applicable: New super contact cleaner formulation.

#### References

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

EC50 Half maximal effective concentration EL50 Half maximal effective loading

NOELR: No observable effect loading ratio

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.

Email: <a href="mailto:support@mgchemicals.com">support@mgchemicals.com</a>

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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.