

**SUPER CONTACT CLEANER PEN****801C-PEN**

# Safety Data Sheet

**Section 1: Identification****Product Identifier and Other Means of Identification****Product Name:** Super Contact Cleaner**SDS Code:** 801C-Pen**Related Part #** 801C-P**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  
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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 PEN**
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**Section 2: Hazard(s) Identification**
**Classification of the Hazardous Chemical**
**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Aspiration Hazard	1	Danger	Health
Skin Irritation	2	Warning	Exclamation
Specific Target Organ Toxicity      Single exposure	3	Warning	Exclamation
Flammable Liquid	3	Warning	Flame
Hazardous to the 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
	H315: Causes skin irritation H336: May cause drowsiness or dizziness
	H226: Flammable liquid and vapor
	H411: Toxic to aquatic life with long lasting effects

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<b>Prevention</b>	<b>Precautionary Statements</b>
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing mist/vapors.
P226	Keep container tightly closed.
P280	Wear protective gloves/eye protection.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, or chemical foam to extinguish.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
P304 + P340, P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P391	Collect spillage.
<b>Storage</b>	<b>Precautionary Statements</b>
P403 + P235	Store in a well-ventilated place. Keep cool.
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

**SUPER CONTACT CLEANER PEN**
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**Section 3: Composition/Information on Ingredients**

CAS #	Chemical Name	%(weight)
64742-48-9	petroleum naphtha, heavy alkylate (mineral spirits)	68%
64742-47-8	distillates (petroleum) hydrotreated light	25%
8042-47-5	mineral oil used in metal working <sup>a)</sup>	5%

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 SWALLOWED</b>	P301 + P310, P331
<b>Immediate Symptoms</b>	<i>cough, diarrhea, sore throat, vomiting</i>
<b>Response</b>	Immediately call a POISON CENTRE/doctor. Do NOT induce vomiting.
<b>IF ON SKIN</b>	P302 + 352, P332 + P313, P362 + P364
<b>Immediate Symptoms</b>	<i>dry skin, redness, irritation</i>
<b>Response</b>	Rinse skin with 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, mild irritation</i>
<b>Response</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**SUPER CONTACT CLEANER PEN****801C-PEN****Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.
<b>Specific Hazards</b>	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> ) and smoke.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection equipment in Section 8.
<b>Precautions for Response</b>	Avoid breathing the mist/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 the liquid in a sealable, chemical-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Use soap and water to remove the last traces of residue.  <b>RECOMMENDATION:</b> Use a grounded stainless steel or carbon steel container.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

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**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children.  Keep away from heat/sparks/open flames/hot surfaces. No smoking.  Avoid breathing mist/vapors. Use only outdoors or in a well-ventilated area.  Avoid release to the environment.
<b>Handling</b>	Wear protective gloves/eye protection. Wash hands thoroughly after handling.  Collect spillage.
<b>Storage</b>	Store in a well-ventilated place. Keep cool. Keep cap on when not in use.  Store locked up.

**Section 8: Exposure Controls/Personal Protection**
**Substances with Occupational Exposure Limit Values**

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
petroleum naphtha, heavy alkylate	Supplier <sup>a)</sup>	1 200 mg/m <sup>3</sup>	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 U.S.A OSHA PEL U.S.A. WEEL Canada AB Canada BC <sup>b)</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>b)</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 by RTECS<sup>2</sup> database 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) Supplier calculated exposure limit

b) Base on oil mist, severely refined value.

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**SUPER CONTACT CLEANER PEN****801C-PEN****Engineering Controls**

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

**Personal Protective Equipment**

**Eye protection** Wear appropriate protective eyeglasses or chemical safety goggles.

**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).

**Skin Protection** For likely contacts, use of protective nitrile gloves or other chemically resistant gloves.

For incidental contacts, use nitrile, neoprene, PVC gloves, 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 resistant to oils.

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.

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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	0.6%
<b>Appearance</b>	Clear, light yellow	<b>Upper Flammability Limit</b>	7.0%
<b>Odor</b>	Slight hydrocarbon	<b>Vapor Pressure @20 °C</b>	0.4 mmHg [0.05 kPa]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	~5 (Air =1)
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	0.77
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Insoluble
<b>Boiling Point</b>	183 °C [362 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point</b>	58 °C [137 °F]	<b>Auto-ignition Temperature</b>	>216 °C [>421 °F]
<b>Evaporation Rate</b>	Moderate	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable	<b>Viscosity @25 °C</b>	Not available

**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>	Avoid flames, sparks, other ignition sources, 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.

**SUPER CONTACT CLEANER PEN****801C-PEN****Section 11: Toxicological Information****Routes of Exposure**

Inhalation, Ingestion and Skin contact

**Symptoms Summary**

- Eyes** May cause redness and mild eye irritation.
- Skin** Cause redness, skin irritation, and dry skin.
- Inhalation** Overexposure may lead to visual impairment and central nervous system effects such as dizziness, headache, nausea, unconsciousness, drowsiness, or weakness.
- Ingestion** Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis, cough, diarrhea, sore throat, vomiting. See inhalation symptoms.
- Chronic** Prolonged and repeated exposure may cause dermatitis, defatting of the skin, and skin sensitization reactions.

**Lethal Exposure Concentrations**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
petroleum naphtha, heavy alkylate	>5 000 mg/kg Rat	>5 000 mg/kg Rabbit <sup>a)</sup>	8 500 mg/m <sup>3</sup> 4 h Rat
petroleum hydrotreated light	>8 000 mg/kg Rat	>4 000 mg/kg Rabbit	>2 500 ppm 4h Rat <sup>a)</sup>
mineral oil / metal working oil (mist)	>5 000 mg/kg Rat	Not available	Not available

*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 MSDS

**Other Toxicological Effects**

- Skin corrosion/irritation** Causes skin redness, skin irritation, and dry skin.
- Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- Sensitization**  
(allergic reactions) Based on available data, the classification criteria are not met.
- Carcinogenicity**  
(risk of cancer) None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.

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<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>	Inhalation may affect the central nervous system causing narcotic effects. Exposure to high concentration of vapors may result in unconsciousness.
<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 over 10% class 1 aspiration hazard components and has a mixture viscosity of <20.5 mm <sup>2</sup> /s 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.

**Acute Ecotoxicity**

See chronic ecotoxicity.

**Chronic Ecotoxicity**

Category 2

Toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

**Biodegradability**

Readily biodegradable

**Other Effects**

Volatile Organic Content (VOC) = 100% (770 g/L)

**Section 13: Disposal Considerations**

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

Sizes 5 liters and under

**Limited Quantity**

**Air**

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

Sizes 30 mL and under

**Excepted Quantity**  
 Document as class **E1**

**FOR REFERENCE ONLY**

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

**Sea**

Refer to **IMDG regulations.**

Sizes 30 mL and under

**Excepted Quantity**  
 Document as class **E1**

**FOR REFERENCE ONLY**

**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 trained and certified before involvement with the transport of dangerous goods.**

**SUPER CONTACT CLEANER PEN****801C-PEN****Section 15: Regulatory Information****Canada****Domestic Substance List (DSL)/Non-Domestic Substance Lists (NDSL)**

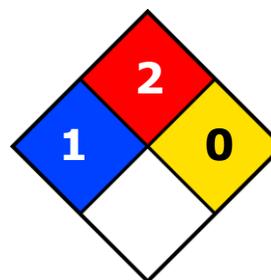
All hazardous ingredients are listed on the DSL/NDSL.

**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.

**USA****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)

**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, April 22, 2016 revision, USA).

This product does not contain any of the listed substances.

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**SUPER CONTACT CLEANER PEN****801C-PEN****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.

**Section 16: Other Information**

<b>SDS Prepared by</b>	Michel Hachey
<b>Date of Revision</b>	05 May 2016
<b>Supersedes</b>	21 November 2013
<b>Reason for Changes:</b>	Replaced chemical ingredient and revised classification of product in compliance with WHMIS 2015 and HCS 2012.

**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)
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%
LD50	Lethal Dose 50%
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
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).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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Registered Quality System **ISO 9001:2008**

QMI File #004008

Burlington, Ontario, Canada

## **SUPER CONTACT CLEANER PEN**

## **801C-PEN**

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