

842UR

SILVER CONDUCTIVE COATING

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Identifier:** 842UR**Other Means of Identification:** Silver Conductive Coating**Related Part #** 842UR-12ML, 842UR-150ML, 842UR-850ML, 842UR-3.6L

### Recommended Use and Restriction on Use

**Use:** Polyurethane Conductive Coating**Uses Advised Against:** Not applicable

### 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**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 accidents)  
USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962**  
(Service access code: 335388)

**For emergencies involving the transport of dangerous goods;** 24/7 service  
CANADA—Call CANUTEC collect at **+1-613-996-6666** or **\*666** on cellular phones

**842UR**

**SILVER CONDUCTIVE COATING**

**Section 2: Hazard(s) Identification**

**Classification of Hazardous Chemical**

**GHS Categories**

Criteria		Category	Signal Word	Pictograms
Flammable Liquid		2	Danger	Flame
Sensitization	Skin	1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Carcinogen		2	Warning	Health
Reproductive Toxicity		2	Warning	Health
Hazardous to the Aquatic Environment	Acute	1	Warning	Environment
Hazardous to the Aquatic Environment	Chronic	1	Warning	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>
	H225: Highly Flammable liquid and vapor
	H317: May cause an allergic skin irritation H319: Causes serious eye irritation
	H351: Suspected of causing cancer H361: Suspected of damaging fertility or the unborn child

*Section continued on the next page*

**842UR**

**SILVER CONDUCTIVE COATING**

Continued...

Pictograms	Hazard Statements
	<p>H410: Very toxic to aquatic life with long lasting effects</p>
Prevention	Precautionary Statements
<p>P102</p>	<p>Keep out of reach of children.</p>
<p>P201, P202</p>	<p>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.</p>
<p>P210</p>	<p>Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking.</p>
<p>P233</p>	<p>Keep container tightly closed.</p>
<p>P240</p>	<p>Ground and bond container and receiving equipment.</p>
<p>P241</p>	<p>Use explosion-proof electrical/ventilating/lighting equipment.</p>
<p>P243</p>	<p>Take action to prevent static discharges.</p>
<p>P261</p>	<p>Avoid breathing mist/vapors/spray.</p>
<p>P264</p>	<p>Wash hands thoroughly after handling.</p>
<p>P272</p>	<p>Contaminated work clothing should not be allowed out of the workplace.</p>
<p>P280</p>	<p>Wear protective gloves/protective clothing/eye protection/face protection.</p>
<p>P273</p>	<p>Avoid release to the environment.</p>
Response	Precautionary Statements
<p>P370 + P378</p>	<p>In case of fire: Use dry chemical, carbon dioxide, water fog, or chemical foam to extinguish.</p>
<p>P308 + P313</p>	<p>By all routes of exposure: IF exposed or concerned: Get medical advice/attention.</p>
<p>P303 + P361 + P352</p>	<p>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water.</p>
<p>P305 + P351 + P338</p>	<p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
<p>P333 + P313</p>	<p>If skin irritation or rash occurs: Get medical advice/attention.</p>
<p>P337 + P313</p>	<p>If eye irritation persists: Get medical advice/attention.</p>

Section continued on the next page

## 842UR

## SILVER CONDUCTIVE COATING

Continued...

Response	Precautionary Statements
P362 + P364 P391	Take off contaminated clothing and wash it before reuse. Collect spillage.
Disposal	Precautionary Statements
P403 + P235 P405	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

### Hazards Not Otherwise Classified

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

### Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
7440-22-4	silver	30%
616-38-6	dimethyl carbonate	21%
67-64-1	acetone	16%
108-65-6	2-methoxy-1-methylethyl acetate	16%
108-10-1	isobutyl methyl ketone	5%
85940-94-9	hexamethylene diisocyanate	4%
64742-95-6	solvent naphtha (petroleum), light aromatic	1%
95-63-6	pseudocumene	1%
98-82-8	cumene	0.2%

**842UR**

**SILVER CONDUCTIVE COATING**

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF ON SKIN (or hair)</b>	P303 + P352, P333 + P313, P362 + P364, P308 + P313
<b>Immediate Symptoms</b>	<i>dry skin, redness, pain, allergic dermatitis</i>
<b>Response</b>	Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/attention.
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313, P308 + P313
<b>Immediate Symptoms</b>	<i>redness, pain, blurred vision, possible corneal damage</i>
<b>Response</b>	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.
<b>IF INHALED</b>	P304 + P340, P308 + P313
<b>Immediate Symptoms</b>	<i>cough, dizziness, drowsiness, headache, nausea, sore throat, vomiting, unconsciousness, weakness, loss of appetite</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention.
<b>IF SWALLOWED</b>	P301 + P330, P331, P308 + P313
<b>Immediate Symptoms</b>	<i>abdominal pain, cough, dizziness, drowsiness, headache, nausea, sore throat, vomiting, unconsciousness, weakness, loss of appetite</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention.

**842UR****SILVER CONDUCTIVE COATING****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>	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.
<b>Combustion Products</b>	Produces carbon oxides (CO,CO <sub>2</sub> ) and toxic fumes.
<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 recommendations in Section 8.
<b>Precautions for Response</b>	Avoid breathing the mist/spray/vapors. Remove or keep away all sources of ignition or extreme heat.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment Methods</b>	Contain with inert and nonflammable absorbent (such as soil, sand, vermiculite).
<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.

**842UR**

**SILVER CONDUCTIVE COATING**

**Section 7: Handling and Storage**

**Prevention**

Keep out of reach of children.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking.

Keep container tightly closed. Ground and bond container and receiving equipment. Use explosive-proof equipment. Take action to prevent static discharges.

Avoid breathing mist/vapors/spray.

Contaminated work clothing should not be allowed out of the workplace.

**Handling**

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

**Storage**

Store in a well-ventilated place. Keep cool.

Store locked up.

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

**Substances with Occupational Exposure Limit Values**

Chemical Name	Country/Province	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
silver (metal dust, mist) (metal) (Ag and its compounds) (metal, dust, fumes)	ACGIH	0.1 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	0.01 mg/m <sup>3</sup>	Not established
	Canada AB	0.1 mg/m <sup>3</sup>	Not established
	Canada BC	0.01 mg/m <sup>3</sup>	0.03 mg/m <sup>3</sup>
	Canada ON	0.1 mg/m <sup>3</sup>	Not established
	Canada QC	0.1 mg/m <sup>3</sup>	Not established

*Section continued on the next page*

**842UR**
**SILVER CONDUCTIVE COATING**

Continued...

<b>Chemical Name</b>	<b>Country/Province</b>	<b>Long Term Exposure Limits (PEL)</b>	<b>Short Term Exposure Limits (STEL)</b>
acetone	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	500 ppm 1 000 ppm 500 ppm 250 ppm 500 ppm 750 ppm	750 ppm Not established 750 ppm 500 ppm 750 ppm 1 000 ppm
2-methoxy-1-methylethyl acetate	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	Not established 50 ppm Not established 50 ppm 50 ppm Not established	Not established Not established Not established 75 ppm Not established Not established
isobutyl methyl ketone	ACGIH <sup>a)</sup> U.S.A. OSHA PEL Canada AB Canada BC <sup>b)</sup> Canada ON Canada QC	20 ppm 100 ppm 50 ppm 20 ppm 50 ppm 50 ppm	75 ppm Not established 75 ppm 75 ppm 75 ppm 75 ppm
cumene	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	50 ppm 50 ppm 50 ppm 75 ppm 50 ppm 50 ppm	Not established Not established Not established Not established Not established Not established

*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 the RTECS database<sup>2</sup> and from suppliers' SDSs were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) A3; URT irr; dizziness; headache

b) 2B - indicate substances designated as carcinogens under section 5.57(1) of the *OHS Regulation*.

**Engineering Controls**
**Ventilation**

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

*Section continued on the page*

**842UR****SILVER CONDUCTIVE COATING****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.

**842UR**
**SILVER CONDUCTIVE COATING**
**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit <sup>c)</sup></b>	2.4%
<b>Appearance</b>	Silver	<b>Upper Flammability Limit <sup>c)</sup></b>	12%
<b>Odor</b>	Aromatic	<b>Vapor Pressure @20 °C</b>	Not available
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	<2.01
<b>pH</b>	Not available	<b>Relative Density @25 °C</b>	1.33
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Partially soluble
<b>Initial Boiling Point <sup>a)</sup></b>	≥56 °C [≥132 °F]	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point <sup>a)</sup></b>	-17 °C [1.4 °F]	<b>Auto-ignition Temperature <sup>b)</sup></b>	≥330 °C [≥626 °F]
<b>Evaporation Rate</b>	<1 (ButAc = 1)	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Highly Flammable	<b>Viscosity @25 °C</b>	4.01 cP

a) Values based on acetone.

b) Values based on 2-methoxy-1-methylethyl acetate.

c) Values based on Raoult's Law and LeChatelier's principal

**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>	Direct sunlight, high temperatures, open flames, sparks and incompatible substances.
<b>Incompatibilities</b>	Strong oxidizing agents, strong bases, strong acids
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Does not decompose under normal conditions, see combustion products in Section 5.

**842UR**

**SILVER CONDUCTIVE COATING**

**Section 11: Toxicological Information**

**Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	May cause redness, pain, blurred vision, possible corneal damage.
<b>Skin</b>	May cause dry skin, redness, pain, allergic dermatitis.
<b>Inhalation</b>	May cause cough, dizziness, drowsiness, headache, nausea, sore throat, vomiting, unconsciousness, weakness, loss of appetite.
<b>Ingestion</b>	May cause abdominal pain, cough, dizziness, drowsiness, headache, nausea, sore throat, vomiting, unconsciousness, weakness, loss of appetite.
<b>Chronic</b>	Prolonged or repeated exposure may cause skin may cause skin allergies.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
silver	>2 000 mg/kg Rat	>2 000 mg/kg Rat	5.16 mg/m <sup>3</sup> 4 h Rat (dust)
dimethyl carbonate	>6.4 g/kg Rat & Mouse	>5 000 mg/kg Rabbit	Not available
acetone	5 800 mg/kg Rat	20 mL/kg Rabbit <sup>a)</sup>	16 000 ppm 4 h Rat <sup>a)</sup>
1-methoxy-2-propanol acetate	8 532 mg/kg Rat	>5 g/kg Rabbit	Not available
isobutyl methyl ketone	2.08 g/kg Rat	>2 000 mg/kg Rat	>2 000 ppm 4 h Rat
hexamethylene diisocyanate	959 mg/kg Rat	>7 000 mg/kg Rat	124 mg/m <sup>3</sup> 4 h Rat
solvent naphtha (petroleum), light aromatic	>5 000 mg/kg Rat	>2 000 mg/kg Rabbit	Not available
pseudocumene	6 000 mg/kg Rat	>3 440 mg/kg Rat	10 200 mg/L 4 h Rat

*Section continued on the next page*

## 842UR

## SILVER CONDUCTIVE COATING

Continued...

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
cumene	1 400 mg/kg Rat	10 627 mg/kg Rabbit	10 g/m <sup>3</sup> 7 h Mouse

Note: Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier SDSs were also consulted.

### Other Toxicological Effects

#### Skin Corrosion/Irritation

Hexamethylene diisocyanate, solvent naphtha (petroleum), light aromatic and pseudocumene can cause skin irritation.

#### Serious Eye Damage/Irritation

Acetone, isobutyl methyl ketone and pseudocumene can cause serious eye irritation.

#### Sensitization (allergic reactions)

Hexamethylene diisocyanate may cause skin sensitization.

#### Carcinogenicity (risk of cancer)

#### Isobutyl methyl ketone [CAS# 108-10-1]

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans

CA Prop 65: Listed as a carcinogen

NTP: Animal studies through inhalation show evidence of carcinogenic effects.

#### Cumene [CAS# 98-82-8]

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A3: Not listed

CA Prop 65: Listed as a carcinogen

NTP: Animal studies through inhalation show evidence of carcinogenic effects.

#### Mutagenicity (risk of heritable genetic effects)

Based on available data, the classification criteria are not met.

Section continued on the next page

**842UR****SILVER CONDUCTIVE COATING****Reproductive Toxicity**

(risk to sex functions)

4-methylpentan-2-one is known to have reproductive effect in rats.

**Teratogenicity** (risk of fetus

malformation)

Based on available data, the classification criteria are not met.

**STOT-Single Exposure**

Acetone, 2-butanone, propan-2-ol, n-butyl acetate and ethyl acetate can affect the central nervous system by inhalation causing drowsiness or dizziness.

4-methylpentan-2-one can cause respiratory irritation.

**STOT-Repeated Exposure**

Hexamethylene diisocyanate may cause damage to lungs through prolonged or repeated exposure.

**Aspiration Hazard**

Based on available data, the classification criteria are not met. The mixture contains &lt;10% category 1 substances.

**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.

Contains silver particles less than a 1 mm in size but >100 nm (larger than nanoparticles), which are very toxic to the environment in their ionic form. While both are insoluble in water, classification is being harmonized to EU classification.

Solvent naphtha (petroleum), light aromatic, pseudocumene and cumene are classified as a aquatic chronic category 2 according to the GHS classification.

Acetone, dimethyl carbonate, 2-methoxy-1-methylethyl acetate, isobutyl methyl ketone, and hexamethylene diisocyanate do not meet classification criteria for aquatic environmental toxicants with LC50 and EC50 of >100 mg/L.

- Acetone has a minimal LC50 96 h of 5 540 mg/L for *Oncorhynchus mykiss* (rainbow trout) and an EC50 48 h of 13 500 mg/L for *Daphnia magna* (water flea).
- Dimethyl carbonate does not meet classification criteria for aquatic environmental toxicants with LC50 and EC50 of >100 mg/L.

**Acute Ecotoxicity**

Very toxic to the aquatic life.

*Section continued on the next page*

**842UR****SILVER CONDUCTIVE COATING****Chronic Ecotoxicity**

Very toxic to the aquatic life with long lasting effects.

Avoid release to the environment. Collect spillage.

**Biodegradability**

Not available

**Other Effects**

VOC (Regulated Volatile Organic Content) = 27% [911 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 DOT 49 CFR** (Parts 100 to 185) **Regulations.**

**Sizes 1 L and under**

*Cat # 842UR-12ML, 842UR-150ML,  
842UR-850ML*

**Limited Quantity****Sizes greater than 1 L**

*Cat # 842UR-3.6L*

**UN number:** UN1993

**Shipping Name:** FLAMMABLE  
LIQUID, N.O.S. (dimethyl carbonate,  
acetone)

**Class:** 3

**Packing Group:** II

Marine Pollutant: Yes



*Section continued on the next page*

# 842UR

# SILVER CONDUCTIVE COATING

## Air

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

Sizes 0.5 L and under <sup>a)</sup>

*Cat # 842UR-12ML, 842UR-150ML*

**Limited Quantity**

Max Net Qty/Pkg =  
1 L



Sizes greater than 0.5 L up to 5 L (passenger), 60 L (cargo)

*Cat # 842UR-850ML, 842UR-3.6L*

**UN number:** UN1993

**Shipping Name:** FLAMMABLE LIQUID, N.O.S. (dimethyl carbonate, acetone)

**Class:** 3

**Packing Group:** II

**Marine Pollutant:** Yes



a) net quantity per inner packaging

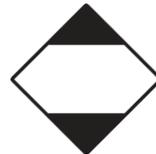
## Sea

**Refer to IMDG regulations.**

Sizes 1 L and under

*Cat # 842UR-12ML, 842UR-150ML, 842UR-850ML*

**Limited Quantity**



Sizes greater than 1 L

*Cat # 842UR-3.6L*

**UN number:** UN1993

**Shipping Name:** FLAMMABLE LIQUID, N.O.S. (dimethyl carbonate, acetone)

**Class:** 3

**Packing Group:** II

Marine Pollutant: Yes



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

**842UR**

**SILVER CONDUCTIVE COATING**

**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.

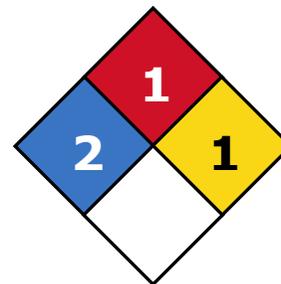
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>* 2</b>
<b>FLAMMABILITY:</b>	<b>1</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 contains methyl methacrylate, which is listed as hazardous air pollutants.

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

This product contains silver (CAS# 7440-22-4; reportable quantity = 1 000 lb) isobutyl methyl ketone (CAS# 108-10-1; reportable quantity = 1 000 lb), pseudocumene (CAS# 95-63-6) and cumene (CAS# 98-82-8; reportable quantity = 5 000 lb), which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

This product contains acetone (CAS# 67-64-1), which is subject to the CERCLA reporting requirements at the 5 000 lb (2 268 kg) threshold.

*Section continued on the next page*

**842UR****SILVER CONDUCTIVE COATING****TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, USA).

This product contains cumene (CAS# 98-28-8), which is listed as carcinogen in California.

This product contains isobutyl methyl ketone (CAS# 108-10-1), which is listed as carcinogen and reproductive toxicant in California.

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

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP 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**

**SDS Prepared by** MG Chemicals' Regulatory Department

**Date of Creation** 03 March 2020

**Supersedes** 11 September 2018

**Reason for Changes:** Update to the emergency phone number information.

**Reference**

1) ACGIH 2017 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 (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

*Section continued on the next page*

**842UR****SILVER CONDUCTIVE COATING****Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
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
Wt	Weight

**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)

<b>Mailing Addresses</b>	Manufacturing & Support	Head Office
	1210 Corporate Drive	9347-193rd Street
	Burlington, Ontario, Canada	Surrey, British Columbia, Canada
	L7L 5R6	V4N 4E7

**Disclaimer** This 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.