

Material Safety Data Sheet

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Section 1: Product Identification

MSDS Code: 843 - liquid

Name: Super Shield Silver Coated Copper Conductive Coating

Related Part Numbers: 843-250G; 843-900ML

Use: For reducing EMI / RFI interference.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
7440-50-8	copper	30 - 60	1mg/m ³	1mg/m ³	n/e
108-88-3	toluene	7 - 13	50ppm	100ppm	150ppm
7440-22-4	silver	5 - 10	1mg/m ³	1mg/m ³	n/e
64-17-5	ethyl alcohol	3 – 7	200ppm	200ppm	250ppm
141-78-6	ethyl acetate	1 – 5	400ppm	400ppm	n/e
110-43-0	2-heptanone	1 – 5	50ppm	100ppm	n/e
110-19-0	2-methylpropyl ester acetic acid	1 – 5	150ppm	150ppm	n/e
67-64-1	2-propanone	1 – 5	750ppm	1000ppm	1000ppm
67-63-0	2-propanol	0.1 –1	400ppm	400ppm	500ppm
108-65-6	1-methoxy-2 propanone acetate	0.1 – 1	n/e	n/e	n/e

Section 3: Hazards Identification

WHMIS Codes:	B2, D2	4				
NFPA Ratings:	Health	1	Flammability	3	Reactivity	0
HMIS Ratings:	Health	1	Flammability	3	Reactivity	0
Eyes:	Liquid ir	n co	ontact with eyes	may	cause perma	anent eye damage.
Skin:	May cau	ise	skin irritation ar	nd po	ssible pain a	and stinging if the skin is abraded.
Inhalation:	Solvents	s m	ay cause respira	atory	tract irritatio	on, headache, and possible dizziness.
Ingestion:	May cau	ise	respiratory and	diges	tive tract irr	ritation.
Chronic:	5		and repeated ex nd adverse centi		5	e dermatitis, defatting of the skin, liver and kidney m effects.

Section 4: First Aid Measure

Eyes:

Remove contact lenses. Flush with water or saline for 20 minutes. Get medical aid.



Skin: Wash skin with large quantities of soap and water. Get medical aid if symptoms persist.

Inhalation: Immediately remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion: Do not induce vomiting. If conscious, give 1-2 glasses of water. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature:	465°C	Flash Point: -18°C	LEL / UEL: 1 / 36
Extinguishing Media:	Use water sp	ray, dry chemical, carbon dioxide, or c	hemical foam.
General Information:	Will burn if in	nvolved in a fire. Flash back along vapo	or trail is possible.

Section 6: Accidental Release Measures

SpillRemove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection.Procedure:Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further
residue with paper towel and place in container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.

Storage: Keep away from sources of ignition. Store in a cool, dry, well ventilated area, away from incompatible substances. Keep from freezing.

Section 8: Exposure Controls

Routes of entry:Eyes, ingestion, inhalation, and skin.Ventilation:Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure
limits.Personal
Protection:Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective
clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Liquid	Odor:	ethereal	Solubility:	partial	Evaporation Rate:	fast		
Boiling Point:	59°C	Specific Gravity:	1.85	Vapor Pressure:	1PSI @21°C	Vapor Density:		pH:	7

Section 10: Sta	bility and Reactivity
Stability:	Stable at normal temperatures and pressures.
Conditions to avoid:	Temperatures over 40°C, ignition sources, and incompatible substances.
Incompatibilities:	Alkali and alkaline earth metals, powdered aluminum, zinc, magnesium, and beryllium, lithium aluminum hydride, potassium tert-butoxide, nitrates, strong acids, strong oxidizers,



ODP: 0

chlorosulphonic acid, hydrogen peroxide.

Polymerization: Will not occur.

Decomposition: Carbon monoxide, carbon dioxide, nitrogen oxides

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure)	Prolonged or repeated skin contact may cause dermatitis.
Carcinogenicity: (risk of cancer)	No
Teratogenicity: (risk of malformation in an unborn fetus)	This product contains zylene, a known embryotoxin. Pregnant women must avoid all contact with this product.
Reproductive Toxicity: (risk of sterility)	Toluene is listed under California Proposition 65 under chemicals known to cause reproductive toxicity.
Mutangenicity: (risk of heritable genetic effects)	No
Lethal Exposure Ingestion(LE Concentrations:	D50): 7400 Inhalation 16000 Skin n/e mg/kg (rat) (LC50): ppm/4h (rat) (LD50):

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GeneralAvoid runoff into storms and sewers which lead into waterways. Water runoff can causeInformation:environmental damage.

Environmental Impact Data: (percentage by weight)

CFC: 0 HFC: CI.Solv.: 0 VOC: 19 HCFC: 0

Section 13: Disposal Information

GeneralDispose of in accordance with all local, provincial, state, and federal regulations. Water runoff
can cause environmental damage.

Section 14: Transportation Information

Ground: (all sizes 1 liter or less)

Consumer Commodity/ORM-D

Ground: (all sizes larger than 1 liter)

Shipping name: Paint related material, UN#1263, Packing group 2, Flash Point -18°C. Shipper must be trained and certified. Refer to CFR 49 regulations, TDG regulation (Canada).

Air:

All sizes must be shipped through a dangerous goods consultant. Shipper must be trained and certified. Refer to IATA regulations.

Sea:

Shipper must be trained and certified. Refer to IMDG regulations. Liquids 1Liter or less--limited quantity, UN#1263, Paint, Class 3, Packing Group 2, Flash Point –18, Liquids over 1 liter—shipping name paint, UN#1263, Class 3, packing group 2, Flash Point -18. Storage category "A", segregation as for class 9 but away from sources of heat and separated from goods of class 1 except for those in division 1.4.

Section 15: Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

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

This product contains the following chemicals subject to the reporting requirements of section 313 Title III of the



SARA of 1986 and 40 CFR part 372: Methanol (CAS #67-56-1, 2% by weight) **TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depletors.

This product does not contain any class 2 ozone depletors.

This product contains methanol (CAS #67-56-1, 2% by weight), listed as a hazardous air pollutant.

California Proposition 65 (Chemicals know to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product contains toluene, listed under chemicals know to the state to cause reproductive toxicity.

Health Canada

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.

Environment Canada

Chemicals in this product are listed on the Domestic Substances List in the Canadian Environmental Protection Act

This product does not contain any ozone depleting substances.

Industry and Science Canada

Labeling, product identity, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance with the Consumer Packaging and Labeling Act and Regulations. This product is not slack filled in accordance to chapter 4 prohibitions.

RoHS (The restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2004).

This product is RoHS compliant.

Section 16: Other Information

Definitions: n/a = not applicable, n/e = not established

Disclaimer: This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.