

SAI Global File #004008 Burlington, Ontario, Canada

#### 838

# TOTAL GROUND CARBON CONDUCTIVE COATING

# Safety Data Sheet

#### **Section 1: Identification**

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

**Product Name: 838** 

Other Means of Identification: Total Ground<sup>™</sup> Carbon Conductive Coating

Related Part # 838-900ML, 838-1G

#### **Recommended Use and Restriction on Use**

**Use:** Electrically conductive coating for preventing static buildups and providing EMI/RFI

shielding

Uses Advised Against: Not available

## **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** 

**A** +1-800-340-0772 FAX +1-800-340-0773 E-MAIL support@mgchemicals.com www.mgchemicals.com **WEB** 

+1-905-331-1396 FAX +1-905-331-2682 E-MAIL info@mgchemicals.com

**E-MAIL** (Competent Person): <a href="mailto:sds@mqchemicals.com">sds@mqchemicals.com</a>

# **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

SAI Global File #004008 Burlington, Ontario, Canada

## 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

# Section 2: Hazard(s) Identification

## **Classification of Hazardous Chemical**

# **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Flammable Liquid		2	Danger	Flame
Aspiration Hazard		1	Danger	Health
Carcinogenicity		2	Warning	Health
Specific Target Organ Toxicity	Repeated Exposure	2	Warning	Health
Reproductive Toxicity		2	Warning	Health
Eye Irritation		2	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment	Acute	3	None	None

*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**

Signal Word	DANGER
Pictograms	Hazard Statements
	H225: Highly flammable liquid and vapor
	H304: May be fatal if swallowed and enters airways
	H351: Suspected of causing cancer
	H361: Suspected of damaging fertility or the unborn child
	H373: May cause damage to central nervous system or inner ear through prolonged or repeated exposure
	H319: Causes serious eye irritation
	H315: Causes skin irritation
	H336: May cause drowsiness and dizziness

Section continued on the next page

Page 2 of 19



SAI Global File #004008 Burlington, Ontario, Canada

# 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

Continued...

Pictograms	Hazard Statements	
No symbol mandated	H402: Harmful to aquatic life	
Prevention	Precautionary Statements	
P102	Keep out of reach of children.	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P233	Keep container tightly closed.	
P240	Ground and bond container and receiving equipment.	
P241	Use explosion-proof equipment.	
P243	Take action to prevent static discharges.	
P260	Do not breathe mist, vapors or spray.	
P271	Use only outdoors or in a well-ventilated area.	
P264	Wash hands thoroughly after handling.	
P280	Wear protective gloves, protective clothing, and eye protection.	
P273	Avoid release to the environment.	
Response	Precautionary Statements	
P308 + P313	For all routes of exposure: If exposed or concerned: Get medical advice.	
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.	
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.	
P303 +P361 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash skin with plenty of water [or shower].	
P332 + P313	If skin irritation occurs: Get medical advice or attention.	
P362 + P364	Take off contaminated clothing and wash it before reuse.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	

Section continued on the next page

Page **3** of **19** 

SAI Global File #004008 Burlington, Ontario, Canada

# 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

Continued...

Response	Precautionary Statements
P337 + P313	If eye irritation persists: Get medical attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
Storage	Precautionary Statements
P403 + P235	Store in a well-ventilated area. Keep cool.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents in accordance to local, regional, national, and 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)
108-88-3	toluene	27%
1333-86-4	carbon black	9%
110-19-0	isobutyl acetate	8%
110-43-0	2-heptanone <sup>a)</sup>	8%
67-64-1	acetone	7%
64-17-5	ethanol	7%
141-78-6	ethyl acetate	4%
108-65-6	1-methoxy-2-propyl acetate	1%

a) Commonly known as methyl amyl ketone (MEK)



SAI Global File #004008 Burlington, Ontario, Canada

# 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

Section 4: First-Aid Measures			
Exposure Condition	GHS Code: Precautionary Statement		
IF ON SKIN (or hair)	P303 + P361 + P352, P332 + P313, P363		
Immediate Symptoms	mild irritation, dry skin, redness		
Response	Take off immediately all contaminated clothing. Wash skin with plenty of water [or shower].		
	If skin irritation occurs: Get medical advice or attention.		
	Wash contaminated clothing before reuse.		
IF INHALED	P304 + P340, P312, P314, P308 + P313		
Immediate Symptoms	cough, irritation of the respiratory track, dizziness, drowsiness, headaches		
Response	Remove person to fresh air and keep comfortable for breathing.		
	Call a POISON CENTRE or physician if you feel unwell.		
	If exposed or concerned: Get medical advice.		
IF IN EYES	P305 + P351 + P338, P337 + P313		
Immediate Symptoms	redness, severed irritation, pain		
Response	Rinse cautiously with water for 20 minutes or more. Remove contact lenses, if present and easy to do. Continue rinsing.		
	If eye irritation persists: Get medical attention.		
IF SWALLOWED	P301 + P330 + P331		
Immediate Symptoms	abdominal pain, nausea, headaches, dizziness, drowsiness, vomiting		
Response	Rinse mouth. Do not induce vomiting.		

SAI Global File #004008 Burlington, Ontario, Canada

## 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

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

**Extinguishing Media** In case of fire: Use dry chemical, carbon dioxide, chemical foam,

or water spray to extinguish.

Use water spray to cool containers.

**Specific Hazards** 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.

Produces irritating and toxic fumes in fires or in contact with hot

surfaces.

Prevent fire-fighting wash from entering waterway or sewer

system.

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

**Fire-Fighter** Wear self-contained breathing apparatus and full fire-fighting

turnout gear.

#### **Section 6: Accidental Release Measures**

**Personal Protection** See personal protection recommendations in Section 8.

Precautions for

Response

Do not breathe the mist, vapors, and fumes. Remove or keep

away all sources of ignition or extreme heat.

Environmental

**Precautions** 

Avoid releasing to the environment. Prevent spill from entering

drains and waterways.

**Containment Methods** 

Contain with inert and nonflammable absorbent (such as soil,

sand, or vermiculite).

**Cleaning Methods** 

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.

**RECOMMENDATION:** Use a grounded stainless steel or carbon

steel container or a solvent resistant plastic container.

**Disposal Methods** 

Dispose of spill waste according to Section 13.



SAI Global File #004008 Burlington, Ontario, Canada

## 838

# **TOTAL GROUND CARBON 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 ignition sources. No smoking. Use explosion-proof

electrical, ventilating, and lighting equipment.

Avoid breathing mist, vapors, and spray. Use only outdoors or in

a well-ventilated area. Keep container tightly closed.

Avoid release to the environment.

**Handling** action to prevent static discharges.

Wear protective gloves, protective clothing, and eye protection.

Contaminated work clothing should not be allowed out of the workplace. 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 or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
toluene	ACGIH	20 ppm (TWA)	Not established
	U.S.A. OSHA PEL	200 ppm	300 ppm
	Canada AB	50 ppm	Not established
	Canada BC	20 ppm	Not established
	Canada ON	20 ppm	Not established
	Canada QC	100 ppm	150 ppm
carbon black <sup>b)</sup>	ACGIH	3.5 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	3.5 mg/m <sup>3</sup>	Not established
	Canada AB	3.5 mg/m <sup>3</sup>	Not established
	Canada BC	3 mg/m <sup>3</sup>	Not established
	Canada ON	3.5 mg/m <sup>3</sup>	Not established
	Canada QC	3.5 mg/m <sup>3</sup>	Not established

Section continued on the next page

Page **7** of **19** 



SAI Global File #004008 Burlington, Ontario, Canada

# 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

Continued...

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
isobutyl acetate	ACGIH	150 ppm	Not established
·	U.S.A. OSHA PEL	150 ppm	Not established
	Canada AB	150 ppm	Not established
	Canada BC	150 ppm	Not established
	Canada ON	150 ppm	Not established
	Canada QC	150 ppm	Not established
2-heptanone	ACGIH	50 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	50 ppm	Not established
	Canada BC	50 ppm	Not established
	Canada ON	25 ppm	Not established
	Canada QC	50 ppm	Not established
acetone	ACGIH	500 ppm	750 ppm
	U.S.A. OSHA PEL	1 000 ppm	Not established
	Canada AB	500 ppm	750 ppm
	Canada BC	250 ppm	500 ppm
	Canada ON	500 ppm	750 ppm
	Canada QC	750 ppm	1 000 ppm
ethanol	ACGIH	Not established	1 000 ppm
	U.S.A. OSHA PEL	1 000 ppm	Not established
	Canada AB	1 000 ppm	Not established
	Canada BC	Not established	1 000 ppm
	Canada ON	Not established	1 000 ppm
	Canada QC	1 000 ppm	Not established
ethyl acetate	ACGIH	400 ppm	Not established
	U.S.A. OSHA PEL	400 ppm	Not established
	Canada AB	400 ppm	Not established
	Canada BC	150 ppm	Not established
	Canada ON	400 ppm	Not established
	Canada QC	400 ppm	Not established

Section continued on the next page



SAI Global File #004008 Burlington, Ontario, Canada

## 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

Continued...

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1-methoxy-2-propanol acetate	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	Not established	Not established
	Canada BC	50 ppm	75 ppm
	Canada ON	50 ppm	Not established
	Canada QC	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 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) OSHA Peak exposure (10 minutes)
- b) Respirable airborne particles

## **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.

**Skin Protection** For likely contacts, use of protective butyl rubber, fluorinated

rubber, 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.

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.

Section continued on the next page

Page **9** of **19** 



SAI Global File #004008 Burlington, Ontario, Canada

## 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

# **General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

# **Section 9: Physical and Chemical Properties**

Physical State	Liquid	Lower Flammability Limit <sup>b)</sup>	2%
Appearance	Black	Upper Flammability Limit <sup>b)</sup>	12%
Odor	Ethereal, aromatic like	Vapor Pressure @20 °C <sup>b)</sup>	72 hPa [54 mmHg]
Odor Threshold <sup>a)</sup>	~2 ppm	Vapor Density	>1.6 [Air =1]
рН	Not available	Relative Density @25°C	0.90
Freezing/Melting Point	Not available	Solubility in Water	Partially soluble
Initial Boiling Point <sup>a)</sup>	≥56 °C [≥133 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point a)	-17 °C [1.4 °F]	Auto-ignition Temperature b)	315 °C [599 °F]
Evaporation Rate	fast	Decomposition Temperature	Not available
Flammability	Highly Flammable	Viscosity @40 °C °)	≥34 mm²/s

- a) Literature values based on acetone component
- b) Vapor pressure, Lower and Upper Explosive Limits of mixture calculated using Le Chatelier principle using component data.
- c) Based on 1-methoxy-2-propanol acetate literature value, which is the component with the lowest ignition value
- d) Kinematic viscosity at 40 °C for separation layer



SAI Global File #004008 Burlington, Ontario, Canada

#### 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

# **Section 10: Stability and Reactivity**

**Reactivity** Not available

**Stabilities** Chemically stable at normal temperatures and pressures

**Conditions to** 

Avoid

Flames, sparks, other ignition sources, and incompatible substances

**Incompatibilities** Strong oxidizing agents, strong acids, strong bases

**Polymerization** Will not occur

**Decomposition** Will not decompose under normal conditions. For thermal

decomposition, see combustion products in Section 5.

# **Section 11: Toxicological Information**

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

**Eyes** Causes redness, tearing, or serious eye irritation.

**Skin** Causes skin redness, irritation, or dry skin.

**Inhalation** May cause cough, dizziness, drowsiness, headaches, and nausea. In

extreme dose, may cause unconsciousness.

**Ingestion** May cause abdominal pain, burning sensation, nausea and vomiting (also

see inhalation symptoms).

**Chronic** Prolonged and repeated exposure may cause dermatitis, defatting of the

skin, liver and kidney damage, and adverse central nervous systems

effects.

Long term exposure to carbon black dust or mist may cause cancer.

Ingestion or inhalation of paint material, mist, or vapor during pregnancy

may increase the chances fetal death and developmental defects.

Section continued on the next page

SAI Global File #004008 Burlington, Ontario, Canada

# 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

## **Lethal Exposure Concentrations**

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
toluene	636 mg/kg	12 124 mg/kg	49 g/m³
	Rat	Rabbit	4 h Rat
carbon black	>15 g/kg	>3 g/kg	Not
	Rat	Rabbit	available
isobutyl acetate	13 400 mg/kg	>17 400 mg/kg	Not
	Rat	Rabbit	available
2-heptanone	1 670 mg/kg	12 600 μL/kg	Not
	Rat	Rabbit	available
acetone	5 800 mg/kg	>9 400 µL/kg	44 g/m³
	Rat	Guinea pig	4 h Rat
ethanol	7 060 mg/kg	Not	20 000 ppm
	Rat	available	10 h Rat
ethyl acetate	5 620 mg/kg	>20 000 µL/kg	45 g/m³
	Rat	Rabbit	2 h Mouse
1-methoxy-2-propyl acetate	8 532 mg/kg	> 5 g/kg	Not
	Rat	Rabbit	available

*Note:* Representative toxicity data from by RTECS<sup>2</sup> and ECHA databases were consulted. Data from supplier SDS were also consulted.

## **Other Toxicological Effects**

Skin corrosion/irritationThe toluene component is a known skin irritant.Serious eye damage/irritationAcetone, ethanol, and ethyl acetate are known as serious eye irritants.Respiratory and skin sensitization (allergic reactions)Based on available data, the classification criteria are not met.

Section continued on the next page

SAI Global File #004008 Burlington, Ontario, Canada

## 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

Carcinogenicity (risk of cancer)

The carbon black [1333-86-4] is possibly carcinogenic by airborne routes of exposures under WHMIS.

Because the carbon black is bound in the liquid mixture, it is not available as an airborne hazard (dust) under normal use.

#### Carbon Black [1333-86-4]

IARC Group 2B: Possibly carcinogenic to humans ACGIH A4: Not classified as a human carcinogen CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)

NTP: Not listed

#### Ethanol [CAS# 64-17-5]

IARC Group 1: Possibly carcinogenic to humans in the form of alcoholic beverages (not ethanol)

ACGIH A4: Not classified as a human carcinogen

CA Prop 65: Listed as a carcinogen when consumed as a beverage

NTP: When in alcoholic beverage consumption, it is listed as a known carcinogen

#### Mutagenicity

(risk of heritable genetic effects)

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

# Reproductive Toxicity (risk to sex functions)

(TISK to Sex Turictions)

**Teratogenicity** (risk of fetus malformation)

(risk of fetus mailormation

STOT-single exposure

**STOT-repeated exposure** 

**Aspiration hazard** 

Toluene, ethanol, and acetone present reproductive and

developmental hazards

Toluene is suspected to be harmful to unborn fetus based on animal studies

The toluene and acetone components can affect the central nervous system by inhalation causing

drowsiness or dizziness.

Contains toluene, which is a Cat 2 STOT repeated

exposure hazard for the central nervous system.

Mixture separation layer viscosity at 40 °C is >20.5 mm<sup>2</sup>/s; therefore, it is not classified as

aspiration hazard.

SAI Global File #004008 Burlington, Ontario, Canada

#### 838

## **TOTAL GROUND CARBON CONDUCTIVE COATING**

## **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 (<a href="http://echa.europa.eu">http://echa.europa.eu</a>), and other reliable sources.

Toluene is an acute category 2 environmental toxicant (rapidly biodegradable, with minimal LC50 96 h of 7.63 mg/L for Oncorhhynchus mykiss (rainbow trout); EC50 24 h of 8.9 mg/L Daphnia magna (water flea); EC50 24 h of 10 mg/L Pseudokirchneriella subcapitata (green algae).

Based on available data, carbon black is not classified as environmental hazards according to GHS criteria.

Acetone, isobutyl acetate, 2-heptanone, ethyl acetate, ethanol and 1-methoxy-2-propanol acetate are not classifiable as environmental toxicants with minimal LC50 of >100 mg/L.

- Acetone has a minimal LC50 96 h of 5 540 mg/L for Oncorhynchus mykiss (rainbow trout); EC50 48 h 13 500 mg/L Daphnia magna (water flea).
- Isobutyl acetate as a minimal LC50 48 h of 101 mg/L for Leuciscus idus melanotus and LC50 24 h of 250 mg/L for Daphnia magna (water flea).
- 2-Heptanone has a minimal LC50 96 h of 126 mg/L for Pimephales promelas (fathead minnow).
- Ethanol has a minimal LC50 96 h of 12 000 mg/L for Oncorhynchus mykiss (rainbow trout) and 5 770 mg/L for Pimephales promelas (fathead minnow); LC 50 48 h of 5 012 mg/L for Cerodaphnia sp.).
- Ethyl acetate has a minimal LC50 96 h of ≥220 mg/L for Pimephales promelas (fathead minnow); a LC50 48 h of 560 mg/L and EC50 24 h of 2 300 mg/L Daphnia magna (water flea); and an EC50 72 h 1 800 mg/L for Selenastrum.
- 1-methoxy-2-propanol has a minimal LC50 96 h of ≥100 mg/L Salmo gairdneri.

#### **Acute Ecotoxicity**

Category 3

Harmful toxic to aquatic life

Avoid release to the environment.

#### **Chronic Ecotoxicity**

Available data doesn't give rise to classification as a chronic ecotoxicant.

#### **Biodegradability**

Not available

Section continued on the next page

Page **14** of **19** 



SAI Global File #004008 Burlington, Ontario, Canada

## 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

#### **Other Effects**

VOC (EPA, WHIMS, and Europe) = 33% [328 g/L] \*VOC = Volatile Organic Content

# **Section 13: Disposal Considerations**

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 5 L and under *838-900ML*, *838-1G* 

**Limited Quantity** 



#### Air

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

Sizes up to 5 L (passenger), 60 L (cargo)

838-900ML, 838-1G

**UN number**: UN1263 **Shipping Name:** PAINT

Class: 3

Packing Group: II Marine Pollutant: No



Section continued on the next page



SAI Global File #004008 Burlington, Ontario, Canada

## 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

#### Sea

# Refer to IMDG regulations.

Sizes 5 L and under *838-900ML*, *838-1G* 

**Limited Quantity** 



Sizes greater than 5 L FOR REFERENCE ONLY UN number: UN1263

Shipping Name: PAINT

Class: 3

Packing Group: II Marine Pollutant: No



*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.

#### 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**

HEALTH:	*	2
FLAMMABILITY:		3
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)

Section continued on the next page

Page **16** of **19** 

SAI Global File #004008 Burlington, Ontario, Canada

#### 838

## **TOTAL GROUND CARBON CONDUCTIVE COATING**

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 toluene (CAS# 108-88-3), which is listed as hazardous air pollutants.

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

This product contains toluene (CAS# 108-88-3; reportable quantity =  $1\ 000\ lb$ ), which is 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), isobutyl acetate (CAS# 110-19-0) and ethyl acetate (CAS# 141-78-6), which are subject to the CERCLA reporting requirements at the 5 000 lb (2 268 kg) threshold.

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 toluene, which is listed as reproductively toxicity.

This product contains carbon black (airborne, unbound particles of respirable size), which is listed as a carcinogen.

This product contains ethanol, which is listed as reproductively toxic. It is also listed as a carcinogen when in an alcoholic beverage.

#### 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.

SAI Global File #004008 Burlington, Ontario, Canada

#### 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

#### **Section 16: Other Information**

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

Date of Revision 12 March 2020 Supersedes 28 October 2019

**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®)

#### **Abbreviations**

ACGIH EC50 EL50	American Conference of Governmental Industrial Hygienists (USA) Half maximal effective concentration 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

Section continued on the next page



SAI Global File #004008 Burlington, Ontario, Canada

# 838

# **TOTAL GROUND CARBON CONDUCTIVE COATING**

**Technical Oueries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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**Disclaimer** 

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Page **19** of **19**