

838AR

TOTAL GROUND™ CARBON CONDUCTIVE PAINT

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Identifier:** 838AR**Other Means of Identification:** Total Ground™ Carbon Conductive Paint**Related Part #** 838AR-15ML, 838AR-15MLCA, 838AR-900ML, 838AR-3.78L

### Recommended Use and Restriction on Use

**Use:** Electrically conductive paint and EMI/RFI shield**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

**Phone** +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)**Phone** +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



**ISO 9001:2015 Quality Management System**

SAI Global File #004008

Burlington, Ontario, Canada

**838AR**

**TOTAL GROUND™ CARBON CONDUCTIVE PAINT**

**838AR**

**TOTAL GROUND™ CARBON CONDUCTIVE PAINT**

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




**Classification of Hazardous Chemical**

**GHS Categories**

Criteria	Category	Signal Word	Pictograms	
Flammable Liquids	2	Danger	Flame	
Eye Damage	1	Danger	Corrosive	
Carcinogenicity	2	Warning	Health	
Sensitization	Skin	1	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation


*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
	H318: Causes serious eye damage
	H351: Suspected of causing cancer by inhalation

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**838AR**
**TOTAL GROUND™ CARBON CONDUCTIVE PAINT**
*Continued...*

<b>Pictograms</b>	<b>Hazard Statements</b>
	H317: May cause an allergic skin reaction H336: May cause drowsiness or dizziness
<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P203	Obtain, read and follow all safety instructions before use.
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 electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharge.
P280	Wear protective gloves, protective clothing, and eye protection.
P261	Avoid breathing mist, vapors, and spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
<b>Response</b>	<b>Precautionary Statements</b>
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
P303 + P361 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash skin with plenty of water.
P333 + P317	If skin irritation or rash occurs: Get medical help.
P363	Wash contaminated clothing before reuse.
P305 + P351 + P338, P317	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
P304 + P340, P319	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.
P318	IF exposed or concerned, get medical advice.

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**838AR**
**TOTAL GROUND™ CARBON CONDUCTIVE PAINT**

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<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 container in accordance to local, regional, national, and 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

**Section 3: Composition/Information on Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
67-64-1	acetone	36%
110-19-0	isobutyl acetate	30%
71-36-3	1-butanol	10%
1333-86-4	carbon black	6%
108-65-6	1-methoxy-2-propyl acetate	4%
25619-56-1	barium bis(dinonylnaphthalenesulphonate)	0.5%

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P317
<b>Immediate Symptoms</b>	<i>redness, pain, blurred vision, eye damage</i>
<b>Response</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.

Section continued on the next page

**838AR**
**TOTAL GROUND™ CARBON CONDUCTIVE PAINT**

<b>IF ON SKIN (or hair)</b>	P303 + P361, P363, P352, P333 + P317
<b>Immediate Symptoms</b>	<i>dry skin, redness, rash, allergic dermatitis</i>
<b>Response</b>	Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.  Wash with plenty of water.  If skin irritation or rash occurs: Get medical help.
<b>IF INHALED</b>	P304 + P340, P319, P318
<b>Immediate Symptoms</b>	<i>cough, sore throat, vomiting, headache, dizziness, drowsiness, shortness of breath</i>
<b>Response</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.  IF exposed or concerned, get medical advice.
<b>IF SWALLOWED</b>	P301 + P330, P331
<b>Immediate Symptoms</b>	<i>abdominal pain, nausea, diarrhea, drowsiness, dizziness, vomiting, shortness of breath</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting.

**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.  Produces irritating and toxic fumes in fires or in contact with hot surfaces.  Prevent fire-fighting wash from entering waterway or sewer system.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), and other toxic fumes.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**838AR****TOTAL GROUND™ CARBON CONDUCTIVE PAINT****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, and 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, or 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>RECOMMENDATION:</b> Use a grounded stainless steel or carbon steel container.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children. Obtain, read and follow all safety instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Take action to prevent static discharge. Avoid breathing mist, vapors, and spray. Use only outdoors or in a well-ventilated area. Keep container tightly closed.
<b>Handling</b>	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.
<b>Storage</b>	Store in a well-ventilated place. Keep cool. Store locked up.

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

<b>Chemical Name</b>	<b>Country/Province</b>	<b>Long Term Exposure Limits (PEL)</b>	<b>Short Term Exposure Limits (STEL)</b>
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
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
1-butanol	ACGIH	20 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	20 ppm	Not established
	Canada BC	15 ppm	30 ppm (Ceiling)
	Canada ON	20 ppm	Not established
	Canada QC	50 ppm (Ceiling)	Not established
carbon black <sup>a)</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
1-methoxy-2-propyl 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 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) Respirable airborne particles

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**838AR****TOTAL GROUND™ CARBON CONDUCTIVE PAINT****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:** 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, and 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.

**838AR**
**TOTAL GROUND™ CARBON CONDUCTIVE PAINT**
**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b> <sup>b)</sup>	2%
<b>Appearance</b>	Black	<b>Upper Flammability Limit</b> <sup>b)</sup>	12%
<b>Odor</b>	Solvent like	<b>Vapor Pressure @20 °C</b>	Not available
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	≥2
<b>pH</b>	Not available	<b>Relative Density @25 °C</b>	0.89
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Partly miscible
<b>Initial Boiling Point</b> <sup>a)</sup>	56 °C [132 °F]	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point</b> <sup>a)</sup>	-17 °C [1.4 °F]	<b>Auto-ignition Temperature</b> <sup>a)</sup>	465 °C [869 °F]
<b>Evaporation Rate</b>	<1 (ButAc = 1)	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Highly flammable	<b>Viscosity @25 °C</b>	114 cP

a) Values based on acetone.

b) Values based on Raoult's Law and LeChatelier principle.

**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>	Ignition sources, open flames, excessive heat, and incompatible substances
<b>Incompatibilities</b>	Strong oxidizing agents, strong bases, strong reducing agents, acids
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	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**

<b>Eyes</b>	Causes redness, pain, blurred vision and eye damage.
<b>Skin</b>	May cause dry skin, redness, rash, and allergic dermatitis.
<b>Inhalation</b>	May cause coughing, sore throat, vomiting, headache, dizziness, drowsiness, and shortness of breath.
<b>Ingestion</b>	May cause abdominal pain, nausea, diarrhea, drowsiness, dizziness, vomiting, and shortness of breath.
<b>Chronic</b>	Prolonged or repeated exposure may cause skin may cause skin dryness and cracking.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
acetone	5 800 mg/kg Rat	20 mL/kg Rabbit <sup>a)</sup>	16 000 ppm 4 h Rat <sup>a)</sup>
isobutyl acetate	13 413 mg/kg Rat	>17 400 mg/kg Rabbit	Not available
1-butanol	2 292 mL/kg Rat	3 434 mL/kg Rabbit	>17.76 mg/L 4 h Rat
carbon black	>15 g/kg Rat	>3 g/kg Rabbit	Not available
1-methoxy-2-propanol acetate	8 532 mg/kg Rat	>5 g/kg Rabbit	Not available
barium bis(dinonylnaphthalenesulphonate)	>15 800 mg/kg Rat	>7 940 mg/kg Rabbit	Not available

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

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**838AR****TOTAL GROUND™ CARBON CONDUCTIVE PAINT****Other Toxicological Effects**

<b>Skin Corrosion/Irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious Eye Damage/Irritation</b>	1-butanol causes serious eye damage.
<b>Sensitization</b> (allergic reactions)	Barium bis(dinonylnaphthalenesulphonate) can cause an allergic skin reaction.
<b>Carcinogenicity</b> (risk of cancer)	The carbon black [1333-86-4] is possibly carcinogenic by airborne routes of exposures under WHMIS 2015 and HCS 2012. <b>Carbon Black [1333-86-4]</b> 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
<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>	Acetone, isobutyl acetate and 1-butanol can affect the central nervous system by inhalation causing drowsiness or dizziness.
<b>STOT-Repeated Exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration Hazard</b>	Based on available data, the classification criteria are not met.

**838AR****TOTAL GROUND™ CARBON CONDUCTIVE PAINT****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.

None of the ingredients are classified as an environmental hazard according to GHS criteria.

**Acute Ecotoxicity**

Available toxicity data does not meet classification thresholds.

**Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds.

**Other Effects**

Regulated Volatile Organic Compounds (VOC) content according to the US (EPA) and Canadian (CEPA) authorities.

Actual VOC = 58% (519 g/L)

**Section 13: Disposal Information**

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

**838AR**

**TOTAL GROUND™ CARBON CONDUCTIVE PAINT**

**Section 14: Transport Information**

**Ground**

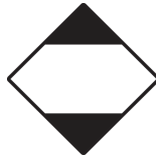
**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);  
**USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Sizes over 30 mL to 5 L

*Cat. No. 838AR-900ML, 838AR-3.78L*

**Limited Quantity**

Max Net Qty/Outer Pkg =  
30 kg



Sizes under 30 mL

*Cat. No. 838AR-15ML,  
838AR-15MLCA*

**Excepted Quantity**

Code **E2** Class 3



**Air**

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

Sizes over 30 mL to 500 mL <sup>a)</sup>

*FOR REFERENCE ONLY*  
**Limited Quantity**

Max Net Qty/Outer Pkg =  
1 L



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

*Cat. No. 838AR-900ML, 838AR-3.78L*

**UN number:** UN1263

**Shipping Name:** PAINT

**Class:** 3

**Packing Group:** II

**Marine Pollutant:** No



Sizes under 30 mL

*Cat. No. 838AR-15ML,  
838AR-15MLCA*

**Excepted Quantity**

Code **E2** Class 3

On air waybill, write: "Dangerous Goods in  
Excepted Quantities".




a) Max net quantity per inner packaging in a combination packaging

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**838AR**

**TOTAL GROUND™ CARBON CONDUCTIVE PAINT**

**Sea**

<b>Refer to IMDG regulations.</b>	
<p>Sizes over 30 mL to 5 L Cat. No. 838AR-900ML, 838AR-3.78L <b>Limited Quantity</b></p> <p>Max Net Qty/Outer Pkg = 30 kg</p> 	<p>Sizes greater than 5 L <i>FOR REFERENCE ONLY</i> <b>UN number:</b> UN1263 <b>Shipping Name:</b> PAINT <b>Class:</b> 3 <b>Packing Group:</b> II <b>Marine Pollutant:</b> No</p> 
<p>Sizes under 30 mL Cat. No. 838AR-15ML, 838AR-15MLCA <b>Excepted Quantity</b> Code <b>E2</b> Class 3</p> 	

Note: **Shipper must be appropriately trained and certified 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.

**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.

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**838AR**

**TOTAL GROUND™ CARBON CONDUCTIVE PAINT**

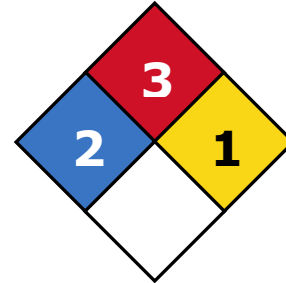
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>*</b>	<b>2</b>
<b>FLAMMABILITY:</b>		<b>3</b>
<b>PHYSICAL HAZARD:</b>		<b>1</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 contains acetone (CAS# 67-64-1) and isobutyl acetate (CAS# 110-19-0), which is 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 carbon black (airborne, unbound particles of respirable size), which is listed as a carcinogen.

**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.



**838AR****TOTAL GROUND™ CARBON CONDUCTIVE PAINT****Section 16: Other Information****SDS Prepared by** MG Chemicals' Regulatory Department**Date of Creation** 05 November 2020**Supersedes** 03 March 2020**Reason for Changes:** Added new part number.**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	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

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**838AR****TOTAL GROUND™ CARBON CONDUCTIVE PAINT**

**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 L7L 5R6	Surrey, British Columbia, Canada 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.