TOTAL GROUND CARBON CONDUCTIVE COATING **838-AEROSOL**

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Total Ground™ Carbon Conductive Coating **SDS Code:** 838–Aerosol

Related Part #: 838-340G

Recommended Use and Restriction on Use

Use: Coats non-conductive surfaces to make them electrically conductive, 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

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

MG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA

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

E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents
USA or CANADA: Call CHEMTREC ☎: ***+1-800-424-9300***

For emergencies involving dangerous goods; Collect 24/7
CANADA: Call CANUTEC ☎: ***+1-613-996-6666*** or ****666*** on cellular phones

Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Criteria		Category	Signal Word	Pictograms
Flammable Aerosol		2	Warning	Flame
Gas under pressure	Liquefied gas	3	Warning	Gas Cylinder
Eye Irritation		2A	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Carcinogenicity		2	Warning	Health
Specific Target Organ Toxicity	Repeated Exposure	2	Warning	Health
Reproductive Toxicity		2	Warning	Health
Environmental Hazard	Acute Aqua. Tox.	3	*None*	*None mandated*

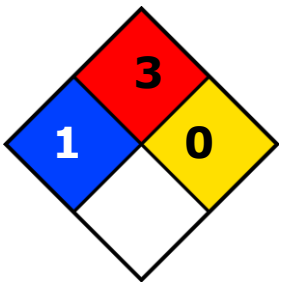
Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Other Classifications

HMIS® RATING

HEALTH:	* 1
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)

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Label Elements

Signal Word	**WARNING**
Pictograms	**Hazard Statements**
	H223: Flammable aerosol H229: Pressurized Container may burst if heated
	H280: Contains gas under pressure; may explode if heated
	H351: Suspected of causing cancer H361: Suspected of damaging fertility or the unboron child H373: May cause damage to central nervous system or inner ear through prolonged or repeated exposure
	H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness and dizziness
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/sparks/open flames/hot surfaces and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do note breathe mist/vapors/spray.

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Prevention	**Precautionary Statements**
P271	Use only outdoors or in a well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
P273	Avoid release to the environment.
Response	**Precautionary Statements**
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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/doctor if you feel unwell.
P308 + P313	If exposed or concerned: Get medical advice.
Storage	**Precautionary Statements**
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].
P403	Store in well-ventilated area.
P405	Store locked up.
Disposal	**Precautionary Statements**
P501	Dispose of contents/container in accordance to local/regional/international regulations.

Hazards Not Otherwise Classified

Repeated exposure may cause skin dryness or cracking.

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	% Weight
811-97-2	1,1,1,2-tetrafluoroethane	50-70%
67-64-1	acetone	10-30%
108-88-3	toluene	3-6%
108-65-6	1-methoxy-2-propyl acetate	1-5%
1333-86-4	carbon black	1-5%
64-17-5	ethanol	1–5%
110-19-0	isobutyl acetate	1–5%
110-43-0	2-heptanone	1–5%
141-78-6	ethyl acetate	0.1-1%
Proprietary [a)]	polyester-based block copolymer	0.1-1%

a) CAS number withheld by supplier as trade secret ingredient: exemption granted by the Hazardous Materials Information Review Commission, HMIRC #6410, 03 March 2003

Section 4: First-Aid Measures

Exposure Condition	*GHS Code: Precautionary Statement*
IF INHALED	P304 + P340, P312, 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 feeling unwell: Get medical advice. 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 several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF ON SKIN (or hair)	P303 + P361 + P353, P308 + P313
Immediate Symptoms	*mild irritation, dry skin, redness*
Response	Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water/shower. If exposed or concerned: Get medical advice.
IF SWALLOWED	P301 + P330 + P331
Immediate Symptoms	*abdominal pain, nausea, headaches, dizziness, drowsiness, vomiting*
Response	Rinse mouth. Do not induce vomiting. Call a POISON CENTRE/doctor if you feel unwell.

Section 5: Fire-Fighting Measures

Auto-ignition Temperature	Not established	**Flash Point** [a]	-17 °C [1.4 °F]	**LFL [LEL]** [b]	1%
				UFL [UEL]	12%

In case of fire	P370 + P378
Extinguishing Media	Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.
Specific Hazards	Will burn if involved in a fire. Produces irritating and toxic fumes in fires or in contact with hot surfaces. Pressurized container may erupt with force if heated in fire. Vapors are heavier than air, and may travel to sources of ignition near the ground.
Combustion Products	Produces CO, CO_2, halogenated compounds, and hydrogen fluorides
Fire-Fighter	Wear self-contained breathing apparatus for fire fighting

a) Acetone literature value, which is the component with the lowest flash point.
b) Calculated based on Raoult's Law and using Le Chatelier principle
LFL = Lower Flammability [or Explosion] Limit (in volume %);
UFL = Upper Flammability [or Explosion] Limit (in volume %)

Section 6: Accidental Release Measures

Personal Protection	See Section 8. Avoid breathing the vapors/fumes.
Containment	Remove all sources of ignition. Prevent spill from entering drains and waterways. Contain with inert absorbent (such as soil, sand, vermiculite).
Cleaning	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	Dispose of spill waste according to Section 13.

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/sparks/open flames/hot surfaces. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Do not breathe vapors/fumes. Use only outdoors or in a well-ventilated area.

Handling

Wear protective gloves/eye protection.

Wash hands thoroughly after handling.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].

Store in a well-ventilated area. Keep cool.

Store locked up.

Recommendation: Do NOT store at temperatures below or equal to 26.5 °C [15.7 °F] since this may crush and damage the container.

Section 8: Exposure Controls/Personal Protection

Routes of Entry

Eyes, ingestion, inhalation, and skin

Substances with Occupational Exposure Limit Values

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1,1,1,2-tetrafluoroethane	*MG Chemicals* [a)] ACGIH U.S.A. OSHA PEL Canada	1 000 ppm Not established Not established Not established	Not established Not established Not established Not established

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Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
Acetone	ACGIH	500 ppm	Not established
	U.S.A. OSHA PEL	1 000 ppm	1 000 ppm [a)]
	Canada AB	500 ppm	750 ppm
	Canada BC	250 ppm	500 ppm
	Canada ON	500 ppm	750 ppm
	Canada QC	750 ppm	1000 ppm
toluene	ACGIH	20 ppm (TWA)	Not established
	U.S.A. OSHA PEL	200 ppm	500 ppm [b)]
	Canada AB	50 ppm	Not established
	Canada BC	20 ppm	Not established
	Canada ON	50 ppm	Not established
	Canada QC	100 ppm	150 ppm
1-methoxy-2-propanol acetate	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	50 ppm [b)]	Not established
	Canada BC	50 ppm	75 ppm
	Canada ON	50 ppm	Not established
carbon black [c)]	ACGIH	3.5 mg/m^3	Not established
	U.S.A. OSHA PEL	3.5 mg/m^3	Not established
	Canada AB	3.5 mg/m^3	Not established
	Canada BC	3 mg/m^3	Not established
	Canada ON	3.5 mg/m^3	Not established
	Canada QC	3.5 mg/m^3	Not established
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
heptan-2-one	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
ethanol	ACGIH	1 000 ppm	Not established
	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	500 ppm

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Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
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	Not established	Not established
	Canada QC	400 ppm	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH[1], OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database[2] of the Canadian Centre for Occupational Health and Safety (CCOHS) a 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) MG Chemicals limit corresponding to prevalent international value
b) OSHA Peak exposure (10 minutes)
c) Respirable airborne particles

Engineering Controls

Ventilation Keep airborne concentrations below exposure limits given in section 3.

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Use safety glasses with lateral protection.

Skin Protection Wear appropriate protective clothing to prevent skin contact.

RECOMMENDATION: Use latex rubber or other chemically resistant gloves.

Respiratory Protection If exposed to mist, wear respirator such as a half-mask respirator.

RECOMMENDATION: Consult your local safety supply store to ensure your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is 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 with water and soap after use.

Section 9: Physical and Chemical Properties

Physical State	Liquid	**Lower Flammability Limit** [b]	1%
Appearance	Black	**Upper Flammability Limit** [b]	12%
Odor	Ethereal, aromatic like	**Vapor Pressure @20 °C**	Not available
Odor Threshold [a]	~2 ppm	**Vapor Density**	>2 (Air =1)
pH	Not available	**Specific Gravity @25 °C**	0.89
Freezing/Melting Point	Not available	**Solubility in Water**	Partially soluble
Boiling Point [a]	≥56 °C [≥133 °F]	**Partition Coefficient**	Not available
Flash Point [a]	-17 °C [1.4 °F]	**Auto-ignition Temperature**	Not available
Evaporation Rate	fast	**Decomposition Temperature**	Not available
Flammability (solid, gas)	Not available	**Viscosity @40 °C** [c]	≥34 mm^2/s

a) Values for flash point and other threshold based on acetone
b) Lower and Upper Explosive Limits of mixture calculated using Le Chatelier principle and component LFL and UFL limits
c) Kinematic viscosity at 40 °C for separation layer

Section 10: Stability and Reactivity

Stabilities	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Temperatures over 50 °C, ignition sources, and incompatible substances
Incompatibilities	Strong oxidizing agents, strong acids, strong bases, alkali or alkali earth metals
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5

Section 11: Toxicological Information

Routes of Exposure

Eyes, ingestion, inhalation, and skin

Symptoms Summary

Eyes Causes severe eye irritation if splashed in eyes or exposed to vapors. May also cause eye redness or pain.

Skin May cause mild to moderate skin irritation.

Inhalation May cause nose, throat and lung irritation. Inhalation of mist may cause irritation to the upper respiratory tract.

Ingestion Harmful if swallowed. It may cause irritation and burning sensation.

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.

Lethal Exposure Concentrations

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation	TCLo inhalation
1,1,1,2-tetrafluoroethane	Not available	Not available	1 500 g/m^3 4 h Rat	Not available
acetone	5 800 mg/kg Rat	>9 400 μL/kg Guinea pig	44 g/m^3 4 h Rat	10 mg/m^3 6 h Human
toluene	636 mg/kg Rat	12 124 mg/kg Rabbit	49 g/m^3 4h Rat	200 ppm Human
1-methoxy-2-propyl acetate	8 532 mg/kg Rat	> 5 g/kg Rabbit	Not available	1 105 mg/m^3 4 h Rat
carbon black	>15 g/kg Rat	>3 g/kg Rabbit	Not available	1.6 mg/m^3 7 h Rat
isobutyl acetate	13 400 mg/kg Rat	>17 400 mg/kg Rabbit	Not available	8 000 ppm 4h Rat LCLo [a)]

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Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation	TCLo inhalation
heptan-2-one	1 670 mg/kg Rat	12 600 μL/kg Rabbit	Not available	7 000 mg/m^3 4 h Guinea pig
ethanol	7 060 mg/kg Rat	Not available	20 000 ppm 10 h Rat	2 500 mg/m^3 20 min Human
ethyl acetate	5 620 mg/kg Rat	>20 000 μL/kg Rabbit	45 g/m^3 2 h Mouse	400 ppm Human

Note: Representative toxicity data from by RTECS database[2] of the Canadian Centre for Occupational Health and Safety (CCOHS) data from supplier MSDS were also consulted.
a) Lowest published lethal concentration

Other Toxicological Effects

Skin corrosion/irritation	Mild skin irritant, ranked Cat 3 under GHS. This category was not adopted by OSHA.
Serious eye damage/irritation	Acetone, toluene, and ethanol are known serious to moderate eye irritant
Respiratory and skin sensitization (allergic reactions)	None known
Carcinogenicity (risk of cancer)	**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 NTP: Not listed
Mutagenicity (risk of heritable genetic effects)	Not known
Reproductive Toxicity (risk to sex functions)	Toluene, ethanol, and acetone present reproductive and developmental hazards
Teratogenicity (risk of fetus malformation)	Toluene is suspected to be harmful to unborn fetus based on animal studies
STOT-single exposure	Narcotic effect on the Central nervous system
STOT-repeated exposure	Toluene may cause damage to the liver an inner ear through prolonged or repeated exposure.
Aspiration hazard	Mixture separation layer viscosity at 40 °C is >20.5 mm^2/s; therefore, it is not classified as aspiration hazard.

Section 12: Ecological Information

The IMDG Code criteria and the raw-material MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (http://echa.europa.eu) were used.

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

Acetone, isobutyl acetate, heptan-2-one, ethyl acetate, ethanol and 1-methoxy-2-propanol acetate are not classifiable as environmental toxicants with minimal LC50 of >100 mg/L. The lowest LC50 for acetone are 5,540 mg/L 96 h for Oncorhhynchus mykiss (rainbow trout) and 13,500 mg/L 48 h Daphnia magna (water flea).Ethanol has a minimal LC50 of 12 000 mg/L 96 h 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 is has a minimal LC50 of 220 mg/L for fathead minnow). The LC50 for 1-methoxy-2-propanol acetate component is 100–180 mg/L 96 h for Salmo gairdneri and >500 mg/L 48 h Daphnia magna (water flea).

Acute Ecotoxicity

Category 3

GHS Code: Hazard Statement

H402: Very toxic to aquatic life

P273: Avoid release to the environment.

P391: Collect spillage.

Chronic Ecotoxicity

Not classifiable

Persistence and Biodegradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Effects

VOC (EPA, WHIMS, and Europe) = 15% [135 g/L]

**VOC = Volatile Organic Content*

Section 13: Disposal Considerations

Dispose of contents in accordance with all local, provincial, state, and federal 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.**

Limited Quantity

UN number: UN1950
Shipping Name: AEROSOL, flammable
Class: 2.1
Packing Group: Not applicable
Marine Pollutant: No

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Limited Quantity

UN number: UN1950
Shipping Name: AEROSOL, flammable
Class: 2.1
Packing Group: Not applicable
Marine Pollutant: No

Sea

Refer to IMDG regulations.

Limited Quantity

UN number: UN1950
Shipping Name: AEROSOL, flammable
Class: 2.1
Packing Group: Not applicable
Marine Pollutant: No

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

Section 15: Regulatory Information

Canada

WHMIS Classification

A – Aerosol Container, B5 – Flammable Aerosols;
D2A – Very Toxic (Carcinogenicity IARC: 2B; Embryotoxicity);
D2B – Toxic (Skin/Eye Irritation)

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.

Health Canada

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

USA

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 6% (wt) 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 = 1000 lb), which is subject to the reporting requirements of 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.

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California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, 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

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

WEEE

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

MSDS Prepared by Michel Hachey

Date of Revision 20 June 2014

Supersedes 03 March 2012

Reason for Changes: Change to HCS 2012 format

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®)

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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%
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

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.

Email: support@mgchemicals.com

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