Burlington, Ontario, Canada



**841AR** 

# **Safety Data Sheet**

#### Section 1: Identification

#### Product Identifier and Other Means of Identification

**Product Name: 841AR** 

Other Means of Identification: Super Shield™ Nickel Conductive Paint / Nickel

Conductive Paint

Related Part # 841AR-15ML, 841AR-150ML, 841AR-900ML, 841AR-3.78L

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

Use: Electrically conductive coating and EMI/RFI shield

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 info@mgchemicals.com E-MAIL

**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



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

## **Classification of Hazardous Chemical**

## **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Flammable Liquid		2	Danger	Flame
Specific Target Organ Toxicity	Repeated Exposure	1	Danger	Health
Carcinogenicity		2	Warning	Health
Sensitization	Skin	1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	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
	H372: Causes damages to organs (lungs) through prolonged or repeated exposure by inhalation
	H351: Suspected of causing cancer
	H317: May cause allergic skin reaction
	H319: Causes serious eye irritation
•	H336: May cause drowsiness or dizziness

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Pictograms	Hazard Statements	
none mandated	H412: Harmful to aquatic life with long lasting effects	
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, 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, and spray	
P271	Use only outdoors or in a well-ventilated area.	
P270	Do not eat, drink or smoke when using this product.	
P280	Wear protective gloves, protective clothing, and eye protection.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P264	Wash hands thoroughly after handling.	
P273	Avoid release to the environment.	
Response	Precautionary Statements	
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.	
P308 + P313	IF exposed or concerned: Get medical advice or attention.	
P303 + P361 + P364 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water or shower.	
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P312	Call a POISON CENTRE or doctor if you feel unwell.	
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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 advice or attention.
Storage	Precautionary Statements
P403 + P235	Store in a well-ventilated place. 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)
7440-02-0	nickel	48%
616-38-6	dimethyl carbonate	16%
67-64-1	acetone	13%
110-43-0	heptan-2-one <sup>a)</sup>	10%
108-65-6	1-methoxy-2-propanol acetate	2%

a) Also known as methyl amyl ketone (MAK)



## **Section 4: First-Aid Measures**

Exposure Condition	GHS Code/Symptoms/Precautionary Statements		
IF ON SKIN (or hair)	P303 + P361, P352, P333 + P313, P308 + P313, P363		
Immediate Symptoms	redness, dry skin, mild irritation, allergic contact dermatitis		
Response	Take off immediately all contaminated clothing. Wash with plenty of water or shower.		
	If skin irritation or rash occurs: Get medical advice or attention.		
	IF exposed or concerned: Get medical advice or attention.		
	Wash contaminated clothing before reuse.		
IF INHALED	P304 + P340, P312, P308 + P313		
Immediate Symptoms	cough, drowsiness, dizziness, headaches, nausea		
Response	Remove person to fresh air and keep comfortable for breathing.		
	Call a POISON CENTRE or doctor if you feel unwell.		
	IF exposed or concerned: Get medical advice or attention.		
IF IN EYES	P305 + P351 + P338, P337 + P313		
Immediate Symptoms	irritation, redness, 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 advice or attention.		
IF SWALLOWED	P301 + P330, P331, P308 + P313		
Immediate Symptoms	nausea, sore throat, abdominal pain, diarrhea, drowsiness, dizziness		
Response	Rinse mouth. Do NOT induce vomiting.		
	IF exposed or concerned: Get medical advice or attention.		



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## **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** Produces irritating and toxic fumes in fires or in contact with

hot surfaces. May produce very toxic nickel carbonyl gas in the

presence of carbon monoxide in a reducing atmosphere.

The vapors are heavier than air and may accumulate in lowlying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.

Prevent fire-fighting wash from entering waterway or sewer

system.

**Combustion Products** Produces carbon oxides (CO,CO<sub>2</sub>), nickel oxides fumes, and

tetracarbonylenickel.

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

turn-out gear.

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

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

Precautions for

Response

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

away all sources of extreme heat or open flames.

Environmental

**Precautions** 

Avoid releasing to the environment. Prevent spill from entering

drains and waterways.

**Containment Methods** 

Contain with inert absorbent (such as soil, sand, 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.

**Disposal Methods** 

Dispose of spill waste according to Section 13.

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## **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, flames, and other ignition sources. No Smoking.

Ground and bond container and receiving equipment. Use explosion-proof equipment. Take action to prevent static discharges.

Do not breathe breathing mist, vapors, and spray. Use only outdoors or in a well-ventilated area. Keep container tightly closed.

Do not eat, drink, or smoke when using this product.

Avoid release to the environment.

**Handling** Wear protective gloves and eye protection.

Take off contaminated clothing and wash it before reuse. Contaminated

work clothing should not be allowed out of the workplace.

Wash hands thoroughly after handling.

Collect spillage.

**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/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
nickel	ACGIH	1.5 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	1 mg/m <sup>3</sup>	Not established
	Canada AB	1.5 mg/m <sup>3</sup>	Not established
	Canada BC	0.05 mg/m <sup>3</sup>	Not established
	Canada ON	1 mg/m <sup>3</sup>	Not established
	Canada QC	1 mg/m <sup>3</sup>	Not established

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Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
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
heptan-2-one	ACGIH	50 ppm	Not established
methyl amyl ketone	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
1-methoxy-2-propanol	ACGIH	Not established	Not established
acetate	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 (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from 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.

## **Engineering Controls**

#### **Ventilation**

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

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## **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 disposable 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.



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

Physical State	Liquid	Lower Flammability Limit <sup>b)</sup>	2%
Appearance	Dark grey	Upper Flammability Limit <sup>b)</sup>	13%
Odor	Acetone-like	Vapor Pressure b) @20 °C	11 kPa [86 mmHg]
Odor Threshold <sup>a)</sup>	5 ppm	Vapor Density	≥2 (Air =1)
pH	Not available	Relative Density @25°C	1.7
Freezing/Melting Point	Not available	Solubility in Water	Partially miscible
Initial Boiling Point <sup>a)</sup>	56 °C [132 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point a)	-17 °C [1.4 °F]	Auto-ignition Temperature <sup>c)</sup>	≥315 °C [≥599 °F]
Evaporation Rate	Fast	Decomposition Temperature	Not available
Flammability	Highly Flammable	Viscosity @25 °C	1 460 cP

a) Values based on acetone component.

b) Lower and Upper Explosive Limits, and vapor pressure of mixture calculated using Le Chatelier principle and component physical values.

c) The auto-ignition value is based on 1-methoxy-2-propanol acetate, which is the component with the lowest value.

## Chemical

#### ISO 9001:2015 Quality Management System

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## Section 10: Stability and Reactivity

Reactivity The nickel can react vigorously with acids and liberate hydrogen,

which can form an explosive mixture in air.

Nickel may react with carbon monoxide in a reducing atmosphere to

form a very toxic nickel carbonyl gas.

Chemical Stability

Chemically stable at normal temperatures and pressures

**Conditions to** 

Ignition sources, open flames, excessive heat, and incompatible Avoid

substances

Incompatibilities Oxidizing agents, strong acids, acid anydrides

**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, severe irritation, and pain.

Skin Causes skin redness, mild irritation, dry skin, and allergic contact

dermatitis.

Inhalation May cause drowsiness, dizziness, cough, and nausea. For severe

overexposure, it may cause sore throat, headaches, weakness, or

unconsciousness.

Ingestion May cause nausea, sore throat, abdominal pain, diarrhea, and abdominal

irritation or pain.

Chronic Prolonged or repeated exposure may cause skin dryness, cracking, as

well as defatting the skin.

Chronic inhalation exposure to nickel dust or mist may damage lungs.

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## **Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
nickel	5 000 mg/kg	Not	Not
	Rat	available	available
dimethyl carbonate	>6.4 g/kg	>5 000 mg/kg	Not
	Rat & Mouse	Rabbit	available
acetone	5 800 mg/kg	20 mL/kg	16 000 ppm
	Rat	Rabbit <sup>a)</sup>	4 h Rat <sup>a)</sup>
heptan-2-one	1 670 mg/kg	12 600 μL/kg	>16.7 mg/kg
	Rat	Rabbit	4 h Rat (vapor)
1-methoxy-2-propanol acetate	8 532 mg/kg	>5 g/kg	Not
	Rat	Rabbit	available

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

a) Supplier safety data sheet

Other	Toxico	logical	Effects

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Acetone is a known serious eye irritant. Contains mechanically abrasive particles.
Sensitization	Exposure to nickel may cause allergic skin reaction.

(allergic reactions)

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Carcinogenicity

(risk of cancer)

Mutagenicity

Nickel is classified as a suspect carcinogen based on animal intratracheal instillation (intubation) or interperitoneal (in body cavity) injection studies. A reliable 2008 study by Oller et al. shows no carcinogenicity for the nickel metal via normal inhalation route.

Nickel [7440-02-0]

IARC Group 2B: Possibly carcinogenic to humans ACGIH A5: Not suspected as a human carcinogen

CA Prop 65: Listed as a carcinogen

NTP: Reasonably anticipated to be human carcinogen Based on available data, the classification criteria are

not met.

(risk of heritable genetic effects)

Reproductive Toxicity (risk to sex functions)

**Teratogenicity** (risk of fetus malformation)

**STOT-single exposure** 

- -

STOT-repeated exposure

Aspiration hazard

Based on available data, the classification criteria are

not met.

Not classifiable due to lack of data

Inhalation of acetone and heptan-2-one may affect

the central nervous system.

Nickel particles can damage the respiratory tract

leading to inflammation, lung fibrosis, and accumulation of nickel particles in a rat study.

Based on available data, the classification criteria are

not met. There is less than 10% category 1

components.



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## **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.

Contains nickel of less than a 1 mm but more than 100 nm (larger than nanoparticles), which release ionic nickel levels that are harmful to the environment. While massive nickel is insoluble in water, its powder is considered sufficiently soluble to give rise to an ecological hazard. The classification that follows takes into account to chronic aqueous toxicity of category 3 assignment of the EU.

Acetone, heptan-2-one, and 1-methoxy-2-propanol acetate are not classifiable as an environmental toxicant (with minimal LC50 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).
- Heptan-2-one has a minimal LC50 96 h of 126 mg/L for Pimephales promelas (fathead minnow).
- 1-methoxy-2-propanol acetate has a minimal LC50 96 h of ≥100 mg/L Salmo gairdneri and an EC50 48 h of >500 mg/L for Daphnia magna (water flea).

There is insufficient data to classify dimethyl carbonate for aqueous toxicity.

#### **Acute Ecotoxicity**

Category 3

Harmful to aquatic life

#### **Chronic Ecotoxicity**

Category 3

Harmful to aquatic life with long lasting effects

Avoid release to the environment.

#### **Biodegradability**

Solvent part expected to be biodegradable, but not the polymer or metal filler. The volatile solvent constituents will oxidize rapidly in air by photochemical reaction.

## **Other Effects**

Actual volatile organic compound (VOC) = 14% [236 g/L]; Regulated VOC = 502 g/L

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## **Section 13: Disposal Information**

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

Note: Nickel can be recovered from the waste to reclaim the value of the nickel.

## **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 841AR-15ML, 841AR-150ML, 841AR-900ML, 841AR-3.78L

**Limited Quantity** 



Sizes greater than 5 L FOR REFERENCE ONLY

UN number: UN1263 Shipping Name: PAINT

Class: 3

Packing Group: II Marine Pollutant: No



#### Air

## Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 0.5 L and under 841AR-15ML, 841AR-150ML

**Limited Quantity** Total Net QTY per package

1.0 L



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

841AR-900ML, 841AR-3.78L

UN number: UN1263 Shipping Name: PAINT

Class: 3

Packing Group: II Marine Pollutant: No



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#### Sea

## Refer to IMDG regulations.

Sizes 5 L and under 841AR-15ML, 841AR-150ML, 841AR-900ML, 841AR-3.78L

**Limited Quantity** 

Sizes greater than 5 L

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.

#### 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)

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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 products that are listed as hazardous air pollutants.

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

This product contains nickel (CAS# 7440-02-0, reportable quantity = 100 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), 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 nickel, 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.



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## **Section 16: Other Information**

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

Date of Review18 January 2021Supersedes26 February 2020

**Reason for Changes:** Minor updates to SDS

#### 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)
ECHA	European Chemicals Agency
EU	European Union
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

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## **841AR**

**Technical Queries** Contact us regarding any questions, improvement suggestions, or

problems with this product. Application notes, instructions, and FAQs

are located at  $\underline{www.mgchemicals.com}.$ 

Email: <a href="mailto:support@mgchemicals.com">support@mgchemicals.com</a>

Mailing Addresses Manufacturing & Support Head Office

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Burlington, Ontario, Canada Surrey, British Columbia, Canada

L7L 5R6 V4N 4E7

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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.