

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-55ML, 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

FAX +1-800-340-0772 +1-800-340-0773

E-MAIL <u>support@mgchemicals.com</u> **E-MAIL** <u>info@mgchemicals.com</u>

WEB <u>www.mqchemicals.com</u>

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 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

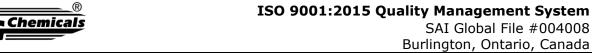
1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

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 |
| I | breathing. |

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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 ^{a)} | 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 low-lying 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,CO₂), 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 ³ | Not established |
| | U.S.A. OSHA PEL | 1 mg/m ³ | Not established |
| | Canada AB | 1.5 mg/m ³ | Not established |
| | Canada BC | 0.05 mg/m ³ | Not established |
| | Canada ON | 1 mg/m ³ | Not established |
| | Canada QC | 1 mg/m ³ | Not established |

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| Chemical Name | Country/ Provinces | Long Term Exposure Limits (PEL) | Short Term Exposure Limits (STEL) |
|------------------------------------|---|---|---|
| acetone | ACGIH U.S.A. OSHA PEL Canada AB | 500 ppm 1 000 ppm 500 ppm | 750 ppm Not established 750 ppm |
| | Canada BC Canada ON Canada QC | 250 ppm 500 ppm 750 ppm | 500 ppm 750 ppm 1 000 ppm |
| heptan-2-one methyl amyl ketone | ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC | 50 ppm 100 ppm 50 ppm 50 ppm 25 ppm 50 ppm | Not established Not established Not established Not established Not established Not established |
| 1-methoxy-2-propanol acetate | ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC | Not established 50 ppm Not established 50 ppm 50 ppm Not established | Not established Not established Not established 75 ppm 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 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 ^{b)} | 2% |
|--|---------------------|--|----------------------|
| Appearance | Dark grey | Upper Flammability Limit ^{b)} | 13% |
| Odor | Acetone-like | Vapor Pressure b) @20 °C | 11 kPa [86 mmHg] |
| Odor Threshold ^{a)} | 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 ^{a)} | 56 °C [132 °F] | Partition Coefficient n-octanol/water | Not available |
| Flash Point a) | -17 °C [1.4 °F] | Auto-ignition Temperature ^{c)} | ≥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.



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

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 ^{a)} | 4 h Rat ^{a)} |
| 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 ECHA database was consulted. The data from supplier SDSs were also consulted.

a) Supplier safety data sheet

Other Toxicological 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)

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.

Mutagenicity

(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 (http://echa.europa.eu), 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-55ML, 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-55ML, 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-55ML, 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.

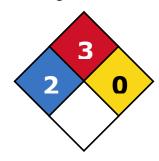
USA

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 Review 11 March 2024 Supersedes 18 January 2021

Reason for Changes: Addition of new part number.

Reference

1) ACGIH 2024 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 (2024).

Abbreviations

| ACGIH ECHA EU EC50 EL50 IARC NOELR NTP GHS LC50 LCLo LD50 OEL PEL SDS STEL TCLo TWA | American Conference of Governmental Industrial Hygienists (USA) European Chemicals Agency European Union Half maximal effective concentration Half maximal effective loading International Agency for Research on Cancer No observable effect loading ratio National Toxicology Program Globally Harmonized System of Classification of Labeling of Chemicals Lethal Concentration 50% Lowest published lethal concentration Lethal Dose 50% Occupational Exposure Limit Permissible Exposure Limit Safety Data Sheet Short-Term Exposure Limit Lowest published toxic concentration Time Weighted Average |
|--|--|
| VOC | Volatile Organic Content |
| | |

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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

Mailing Addresses Manufacturing & Support

1210 Corporate Drive Burlington, Ontario, Canada

L7L 5R6

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.