

841AR

(AEROSOL)

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: 841AR**Other Means of Identification:** Super Shield™ Nickel Conductive Coating (Aerosol)**Related Part #** 841AR-340G

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

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

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

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Section 2: Hazard(s) Identification
Classification of Hazardous Chemical
GHS Categories

| Criteria | | Category | Signal Word | Pictograms |
|--|-------------------|---------------|-------------|--------------|
| Specific Target Organ Toxicity | Repeated Exposure | 1 | Danger | Health |
| Carcinogenicity | | 2 | Warning | Health |
| Flammable Aerosol | | 2 | Warning | Flame |
| Gas Under Pressure | | Liquefied gas | Warning | Gas cylinder |
| Sensitization | Skin | 1 | Warning | Exclamation |
| Eye Irritation | | 2 | Warning | Exclamation |
| Specific Target Organ Toxicity | Single Exposure | 3 | Warning | Exclamation |
| Hazardous to the Aquatic Environmental | Chronic | 3 | <i>none</i> | <i>none</i> |


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 |
|  | H372: Causes damages to organs (lungs) through prolonged or repeated exposure by inhalation H351: Suspected of causing cancer |
|  | H223: Flammable aerosol |
|  | H280: Contains gas under pressure; may explode if heated |

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| Pictograms | Hazard Statements |
|---|--|
|  | H317: May cause an allergic skin reaction H319: Causes serious eye irritation H336: May cause drowsiness or dizziness |
| <i>No pictogram required</i> | H412: Harmful to aquatic life with long lasting effects |
| Prevention | Precautionary Statements |
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No Smoking. |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe mist, vapors, and spray. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P280 | Wear protective gloves, protective clothing, and eye protection. |
| P270 | Do not eat, drink or smoke when using this product. |
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| Response | Precautionary Statements |
| P308 + P313 | IF exposed or concerned: Get medical advice or attention. |
| P314 | Get medical advice or attention if you feel unwell. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice or attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

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| Response | Precautionary Statements |
|-----------------|--|
| P337 + P313 | If eye irritation persists: Get medical advice or attention. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER or doctor if you feel unwell. |
| Storage | Precautionary Statements |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F]. |
| P403 | Store in a well-ventilated place. |
| P405 | Store locked up. |
| Disposal | Precautionary Statements |
| P501 | Dispose of container 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 |
| Simple Asphyxiant | May displace oxygen and cause rapid suffocation. | Warning | None |

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Section 3: Composition/Information on Ingredients

| CAS # | Chemical Name | %(weight) |
|--------------|------------------------------|------------------|
| 7440-02-0 | nickel | 31% |
| 67-64-1 | acetone | 18% |
| 74-98-6 | propane | 13% |
| 616-38-6 | dimethyl carbonate | 11% |
| 75-28-5 | isobutane | 7% |
| 123-86-4 | n-butyl acetate | 6% |
| 110-43-0 | heptan-2-one | 6% |
| 108-65-6 | 1-methoxy-2-propanol acetate | 1% |

Section 4: First-Aid Measures

| <i>Exposure Condition</i> | <i>GHS Code/Symptoms/Precautionary Statements</i> |
|---------------------------|---|
| IF ON SKIN | P302 + P352, P333 + P313, P362 + P364 |
| Immediate Symptoms | <i>redness, irritation, dry skin, allergic reaction</i> |
| Response | Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. |
| IF INHALED | P304 + P340, P312, P308 + P313 |
| Immediate Symptoms | <i>cough, sore throat, drowsiness, dizziness, headaches, nausea, unconsciousness</i> |
| Response | Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF exposed or concerned: Get medical advice or attention. |

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| | |
|---------------------------|--|
| IF IN EYES | P305 + P351 + P338, P337 + P313 |
| Immediate Symptoms | <i>redness, severe irritation, blurred vision, pain</i> |
| Response | Rinse cautiously with water for at least 20 minutes. 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 | <i>nausea, sore throat, abdominal pain, diarrhea, drowsiness, dizziness, vomiting</i> |
| Response | Rinse mouth. Do NOT induce vomiting. IF exposed or concerned: Get medical advice or attention. |

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 | Aerosols containers may erupt with force at temperatures above 50 °C [122 °F]. The liquid may float on water and ignite. 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. |
| Combustion Products | Produces carbon oxides (CO, CO ₂) and metal oxide fumes. |
| Fire-Fighter | Wear self-contained breathing apparatus and full fire-fighting turn-out gear. |

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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 | Not applicable |
| 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. |

Section 7: Handling and Storage

| | |
|-------------------|---|
| Prevention | <p>Keep out of reach of children.</p> <p>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.</p> <p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>Do not breathe mist, vapors, and spray.</p> <p>Do not eat, drink, or smoke when using this product.</p> <p>Do not pierce or burn, even after use.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p> |
| Handling | <p>Do not spray on an open flame or other ignition source.</p> <p>Use only outdoors or in a well-ventilated area.</p> <p>Wear protective gloves, protective clothing, and eye protection.</p> <p>Take off contaminated clothing and wash it before reuse.</p> <p>Wash hands thoroughly after handling.</p> <p>Avoid release to the environment.</p> |
| Storage | <p>Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].</p> <p>Store in a well-ventilated place.</p> <p>Store locked up.</p> |

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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 U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC | 1.5 mg/m ³ 1 mg/m ³ 1.5 mg/m ³ 0.05 mg/m ³ 1 mg/m ³ 1 mg/m ³ | Not established Not established Not established Not established Not established Not established |
| acetone | ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC | 500 ppm 1 000 ppm 500 ppm 250 ppm 500 ppm 750 ppm | 750 ppm Not established 750 ppm 500 ppm 750 ppm 1 000 ppm |
| propane | ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC | See footnote ^{a)} 1 000 ppm 1 000 ppm 1 000 ppm 1 000 ppm 1 000 ppm | Not established Not established Not established Not established Not established Not established |
| isobutane <i>alkane (C2-C4)</i> <i>aliphatic hydrocarbon gas</i> | ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC | See footnote ^{a)} Not established 1 000 ppm 1 000 ppm 800 ppm Not established | Not established Not established Not established Not established Not established Not established |
| n-butyl acetate | ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC | 150 ppm 150 ppm 150 ppm 20 ppm 150 ppm 150 ppm | Not established Not established 200 ppm 200 ppm Not established 200 ppm |
| heptan-2-one <i>methyl amyl ketone</i> | 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 |

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Continued...

| Chemical Name | Country/ Provinces | Long Term Exposure Limits (PEL) | Short Term Exposure Limits (STEL) |
|---------------------------------|-----------------------|---------------------------------------|---|
| 1-methoxy-2-propanol acetate | ACGIH | Not established | Not established |
| | U.S.A. OSHA PEL | 50 ppm | Not established |
| | Canada AB | Not established | Not established |
| | Canada BC | 50 ppm | 75 ppm |
| | Canada ON | 50 ppm | Not established |
| | Canada QC | Not established | Not established |

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from RTECS² database and data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Refer to the ACGIH Appendix F: Minimum Oxygen Content for Asphyxia TLV Basis

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.

Respiratory Protection For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

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General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

| | | | |
|--|------------------------------|--|----------------------|
| Physical State | Liquid, in an aerosol format | Lower Flammability Limit ^{c)} | 2% |
| Appearance | Dark grey | Upper Flammability Limit ^{c)} | 13% |
| Odor | Acetone-like | Vapor Pressure @21 °C | 10 kPa [78 mmHg] |
| Odor Threshold ^{a)} | 5 ppm | Vapor Density | ≥2 (Air =1) |
| pH | Not available | Relative Density @25 °C | 1.3 |
| 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 ^{b)} | ≥315 °C [≥599 °F] |
| Evaporation Rate | Fast | Decomposition Temperature | Not available |
| Flammability | Flammable | Viscosity @25 °C | 61 cP |

a) The values for the boiling point and closed cup flash point are based on the acetone component.

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

c) Lower and Upper Explosive Limits of mixture calculated using Le Chatelier principle and liquid component LFL and UFL limits

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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 | Temperatures above 50 °C [122 °F], open flames, and incompatible substances |
| Incompatibilities | Oxidizing agents, strong acids, peroxides, 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**Summary of Effects and Symptoms by Routes of Exposure**

| | |
|-------------------|--|
| Skin | May cause skin redness, irritation, dry skin, and allergic reaction. |
| Inhalation | May cause cough, sore throat, drowsiness, dizziness, headaches, nausea, or unconsciousness. |
| Eyes | May cause redness, severe irritation, blurred vision, and pain. |
| Ingestion | May cause nausea, sore throat, abdominal pain, diarrhea, and vomiting (also see inhalation symptoms). |
| 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 affect the central nervous system, damage lungs, and lead to hearing loss with co-exposure to loud noises. |

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Acute Toxicity (Lethal Exposure Concentrations)

| Chemical Name | LD50 oral | LD50 dermal | LC50 inhalation |
|------------------------------|--------------------------|----------------------------------|-------------------------------------|
| nickel | 5 000 mg/kg Rat | Not available | Not available |
| acetone | 5 800 mg/kg Rat | 20 mL/kg Rabbit ^{a)} | 16 000 ppm 4 h Rat ^{a)} |
| propane | Not applicable | Not applicable | >800 000 ppm 4 h Rat |
| dimethyl carbonate | >6.4 g/kg Rat & Mouse | >5 000 mg/kg Rabbit | Not available |
| isobutane | Not applicable | Not applicable | >570 000 ppm 4 h Rat |
| n-butyl acetate | >10 768 mg/kg Rat | >17 600 mg/kg Rabbit | 390 ppm 4 h Rat |
| heptan-2-one | 1 670 mg/kg Rat | 12 600 µL/kg Rabbit | >16.7 mg/kg 4 h Rat |
| 1-methoxy-2-propanol acetate | 8 532 mg/kg Rat | >5 g/kg Rabbit | Not available |

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier SDS 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
 (allergic reactions)

Exposure to nickel may cause allergic skin reaction.

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841AR**(AEROSOL)****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

Mutagenicity
(risk of heritable genetic effects)

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

Reproductive Toxicity
(risk to sex functions)

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

Teratogenicity
(risk of fetus malformation)

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

STOT-single exposure

Inhalation of acetone, n-butyl acetate, heptan-2-one may affect the central nervous system.

STOT-repeated exposure

Nickel particles can damage the respiratory tract leading to inflammation, lung fibrosis, and accumulation of nickel particles in a rat study.

Aspiration hazard

Based on available data, the classification criteria are not met. There is less than 10% category 1 components.

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 by EU regulators. The classification that follows takes into account to chronic aqueous toxicity of category 3 assignment of the EU.

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The n-butyl acetate ingredient is an acute category 3 environmental toxicant (biodegradable, with minimal LC50 of 18 mg/L for fathead minnow).

Acetone, heptan-2-one, 1-methoxy-2-propanol 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).
- The 1-methoxy-2-propanol component 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 VOC (Volatile Organic Compounds) content according to the US (EPA) and Canadian (CEPA) authorities.

Actual VOC = 34% [456 g/L]

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Section 13: Disposal Information

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

Section 14: Transport Information

Ground

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

Limited Quantity



Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Limited Quantity



FOR REFERENCE ONLY

UN number: UN1950

Shipping Name: AEROSOL, flammable

Class: 2.1

Packing Group: Not applicable

Marine Pollutant: No

Sea

Refer to IMDG regulations.

Limited Quantity



FOR REFERENCE ONLY

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.

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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.

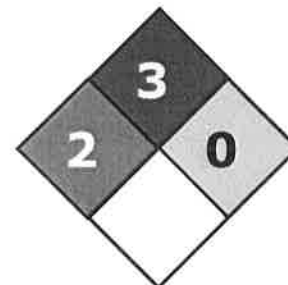
USA

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)

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.

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841AR**(AEROSOL)****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.

Section 16: Other Information

SDS Prepared by Regulatory Department

Date of Review 26 February 2020

Supersedes 06 May 2019

Reason for Changes: New emergency response 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®)

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841AR**(AEROSOL)****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 |

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.

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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.