

SAI Global File #004008

Burlington, Ontario, Canada

### 401B Nu-Trol<sup>TM</sup> Control Cleaner

### (AEROSOL)

# **Safety Data Sheet**

#### Section 1: Identification

#### **Product Identifier and Other Means of Identification**

**Product Identifier: 401B** 

Other Means of Identification: Nu-trol<sup>™</sup> Control Cleaner (Aerosol)

Related Part # 401B-140G, 401B-340G

#### Recommended Use and Restriction on Use

**Use:** Cleans and lubricates electrical contacts

Uses Advised Against: Do NOT use on live circuits or in presence of ignition source

#### **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 **E-MAIL** info@mgchemicals.com support@mqchemicals.com

www.mgchemicals.com WEB

**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

(AEROSOL)

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

#### **Classification of Hazardous Chemical**

#### **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Aspiration Hazard		1	Danger	Health
Reproductive Toxicity		2	Warning	Health
Flammable Aerosol		2	Warning	Flame
Gases Under Pressure		Liquefied	Warning	Gas cylinder
		gas		
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	2	none	Environment

Note: The degree of severity is ranked within each hazard class from

#### **Label Elements**

Signal Word	DANGER
Pictograms	Hazard Statements
	H223: Flammable aerosol
	H280: Contains gas under pressure; may explode if heated
_	H304: May be fatal if swallowed and enters airways
	H361: Suspected of damaging fertility or the unborn child

Section continued on the next page

Page **2** of **17** 

<sup>1 (</sup>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.



SAI Global File #004008 Burlington, Ontario, Canada

### 401B NU-TROL<sup>TM</sup> CONTROL CLEANER

(AEROSOL)

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Pictograms	Hazard Statements	
^	H315: Causes skin irritation	
<u>(i)</u>	H336: May cause drowsiness or dizziness	
***	H411: Toxic to aquatic life with long lasting effects	
Prevention	Precautionary Statements	
P102	Keep out of reach of children.	
P201, P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.	
P261	Avoid breathing mist, vapors, or spray.	
P271	Use only outdoors or in a well-ventilated area.	
P210	Keep away from heat, hot surfaces, sparks, open flames 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.	
P280	Wear protective gloves, protective clothing, and eye protection.	
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.	
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.	
P302 + P352	IF ON SKIN: Wash with plenty of water.	
P332 + P313	If skin irritation occurs: Get medical advice or attention.	
P362 + P364	Take off contaminated clothing and wash it before reuse.	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

Section continued on the next page

Page **3** of **17** 

SAI Global File #004008 Burlington, Ontario, Canada

## 401B NU-TROL<sup>TM</sup> CONTROL CLEANER

(AEROSOL)

Continued...

Response	Precautionary Statements	
P312	Call a POISON CENTER or doctor if you feel unwell.	
P391	Collect spillage.	
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 contents/container in accordance to local, regional, national, and international regulations.	

#### **Hazards Not Otherwise Classified**

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Simple Asphyxiant	May displace oxygen and cause rapid suffocation.	Warning	None
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

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

CAS #	Chemical Name	%(weight)
8042-47-5	white mineral oil (petroleum)	38%
811-97-2	1,1,1,2-tetrafluoroethane a)	25%
107-83-5	methyl-2-pentane	10-30%
96-14-0	methyl-3-pentane	5-10%
79-29-8	dimethyl-2,3-butane	3-7%
75-83-2	dimethyl-2,2-butane	3-7%
109-66-0	pentane	1-5%
110-54-3	n-hexane	1-5%
-> ΔΙ Ι	UF0 404	

a) Also known as HFC-134a.



(AEROSOL)

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

Exposure Condition	GHS Code/Symptoms/Precautionary Statements
IF SWALLOWED	P301 + P310, P331, P308 + P313
Immediate Symptoms	nausea, vomiting, abdominal pain, drowsiness, dizziness, weakness
Response	Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
	IF exposed or concerned: Get medical advice or attention.
IF ON SKIN	P302 + P352, P332 + P313, P362 + P364, P308 + P313
Immediate Symptoms	dry skin, redness, irritation
Response	Wash with plenty of water.
	If skin irritation occurs: Get medical advice or attention.
	Take off contaminated clothing and wash it before reuse.
	IF exposed or concerned: Get medical advice or attention.
IF INHALED	P304 + P340, P312, P308 + P313
IF INHALED Immediate Symptoms	P304 + P340, P312, P308 + P313  drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue
	drowsiness, dizziness, headache, nausea, cough, blurry
Immediate Symptoms	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue  Remove person to fresh air and keep comfortable for
Immediate Symptoms	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue  Remove person to fresh air and keep comfortable for breathing.
Immediate Symptoms	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue  Remove person to fresh air and keep comfortable for breathing.  Call a POISON CENTER or doctor if you feel unwell.
Immediate Symptoms Response	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue  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.
Immediate Symptoms Response IF IN EYES	drowsiness, dizziness, headache, nausea, cough, blurry vision, fatigue  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.  P305 + P351 + P338, P308 + P313



SAI Global File #004008 Burlington, Ontario, Canada

### **401B NU-TROL**<sup>TM</sup> CONTROL CLEANER

(AEROSOL)

#### **Section 5: Fire-Fighting Measures**

**Extinguishing Media** Use dry chemical, carbon dioxide, or chemical foam to

extinguish. Use water spray to cool containers.

**Specific Hazards** Aerosol containers may erupt with force at temperatures above

50 °C [122 °F].

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

Produces irritating and toxic fumes in fires or in contact with

hot surfaces.

The liquid may float on water and ignite.

Prevent fire-fighting wash from entering waterway or sewer

system.

**Combustion Products** Produces carbon oxides (CO, CO<sub>2</sub>), halogenated compounds,

and hydrogen fluorides.

**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

Avoid breathing the mist, spray or 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** N

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.



(AEROSOL)

#### 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, open flames and

other ignition sources. No smoking.

Avoid breathing mist, vapors or spray. Use only outdoors or in

a well-ventilated area.

Do not pierce or burn, even after use.

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

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

Wash hands thoroughly after handling.

Avoid release to the environment.

**Storage** Protect from sunlight. Do not expose to temperatures

exceeding 50 °C [122 °F].

Store in a well-ventilated place.

Store locked up.

#### **Section 8: Exposure Controls/Personal Protection**

#### **Substances with Occupational Exposure Limit Values**

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
white mineral oil	ACGIH	5 mg/m <sup>3</sup>	Not established
(petroleum)	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
	Canada BC	Not established	Not established
	Canada ON	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
	Canada QC	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
1,1,1,2-	MG Chemicals a)	1 000 ppm	Not established
tetrafluoroethane	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada	Not established	Not established

Section continued on the next page

Page **7** of **17** 



(AEROSOL)

Continued...

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
methyl-2-pentane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) b)	(1 000 ppm) b)
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
methyl-3-pentane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) b)	(1 000 ppm) b)
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
,	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
dimethyl-2,3-butane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) b)	(1 000 ppm) b)
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
,	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
dimethyl-2,2-butane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) b)	(1 000 ppm) b)
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
,	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
pentane	ACGIH	600 ppm	Not established
F	U.S.A. OSHA PEL	1 000 ppm	Not established
	Canada AB	600 ppm	Not established
	Canada BC	600 ppm	Not established
	Canada ON	600 ppm	Not established
	Canada QC	120 ppm	Not established
n-hexane	ACGIH	50 ppm	Not established
	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	50 ppm	Not established
	Canada BC	50 ppm	Not established
	Canada ON	50 ppm	Not established
	Canada QC	50 ppm	Not established

Section continued on the next page

Page **8** of **17** 



SAI Global File #004008 Burlington, Ontario, Canada

### **401B NU-TROL**<sup>TM</sup> CONTROL CLEANER

(AEROSOL)

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from 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 recommended limit corresponding to prevalent international threshold values
- b) Value vacated (retracted) under court order, but still in effect in some states.

#### **Engineering Controls**

**Ventilation** Keep airborne concentrations below the occupational exposure

limits (OEL).

#### **Personal Protective Equipment**

**Eye protection** Wear appropriate protective eyeglasses or chemical safety

goggles.

**RECOMMENDATION:** Ensure that glasses have side shields for

lateral protection.

**Skin Protection** For likely contacts, use of protective butyl rubber or other

chemically resistant gloves.

For incidental contacts, use nitrile or other chemically resistant

gloves.

**Respiratory Protection** For over-exposures up to 10 x OEL of mist/vapors/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

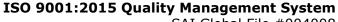
cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a

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.







(AEROSOL)

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

Physical State	Liquid, in aerosol format	Lower Flammability Limit	1%
Appearance	Clear	Upper Flammability Limit	7.5%
Odor	Mild hydrocarbon	Vapor Pressure @20 °C	22 kPa [167 mmHg]
Odor Threshold	Not available	Vapor Density	2.98 (Air =1)
pH	Not available	Relative Density	0.73
Freezing/Melting Point	Not available	Solubility in Water	Immiscible
Initial Boiling Point	52 °C [125 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point a)	-29 °C [-20 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	0.8 (Ether = 1)	Decomposition Temperature	Not available
Flammability	Flammable	Viscosity @40 °C	<20.5 mm <sup>2</sup> /s

a) Closed cup flash point

Reactivity

#### **Section 10: Stability and Reactivity**

Not available

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to	Avoid open flames ignition sources, temperatures above

**Conditions to**Avoid open flames, ignition sources, temperatures above 50 °C **Avoid**Avoid open flames, ignition sources, temperatures above 50 °C

[122 °F], and incompatible substances

**Incompatibilities** Strong oxidizing agents, alkaline and alkaline-earth metals, powdered aluminium, zinc, magnesium and beryllium

**Polymerization** Will not occur

**Decomposition** Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Page **10** of **17** 



#### **401B Nu-Trol<sup>TM</sup> Control Cleaner**

(AEROSOL)

### Section 11: Toxicological Information

#### Summary of Effects and Symptoms by Routes of Exposure

Eyes Low toxicity: May cause redness and pain.

Skin Causes dry skin, redness, and irritation.

**Inhalation** May cause dizziness, drowsiness, headaches, nausea, cough, blurry

vision, and fatigue.

**Ingestion** May cause nausea, vomiting, and abdominal pain. See inhalation

symptoms.

**Chronic** Prolonged or repeated exposure may cause skin dryness and a

dermatitis.

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

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
white mineral oil (petroleum)	>5 000 mg/kg	Not	Not
	Rat	available	available
1,1,1,2-tetrafluoroethane	Not	Not	1 500 g/m³
	available	available	4 h Rat
methyl-2-pentane	Not	Not	3 125 ppm
	available	available	4 h Rat <sup>a)</sup>
methyl-3-pentane	Not	Not	Not
	available	available	available
dimethyl-2,3-butane	Not	Not	Not
	available	available	available
dimethyl-2,2-butane	Not	Not	Not
	available	available	available
pentane	>2 000 mg/kg	Not	<20 000 ppm
	Rat	available	Rat 4 h (vapor)
n-hexane	15 840 mg/kg	2 000 mg/kg	48 000 ppm
	Rat	Rabbit	4 h Rat

*Note:* Toxicity data from the ECHA databases were consulted. The data from supplier SDS were also consulted.

a) Supplier SDS

Section continued on the next page

Page **11** of **17** 



SAI Global File #004008 Burlington, Ontario, Canada

#### **401B Nu-trol<sup>TM</sup> Control Cleaner**

(AEROSOL)

**Other Toxicological Effects** 

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye**Based on available data, the classification criteria are

**damage/irritation** not met.

**Sensitization** Based on available data, the classification criteria are

(allergic reactions) not met.

**Carcinogenicity** Not classified or listed as a carcinogen by IARC, ACGIH,

(risk of cancer) CA Prop 65, or NTP.

**Mutagenicity** Based on available data, the classification criteria are

(risk of heritable genetic effects) not met.

**Reproductive Toxicity** Based on available data, the classification criteria are

(risk to sex functions) not met.

**Teratogenicity** The n-hexane component causes harm to fetus

(risk of fetus malformation) according to animal studies.

**STOT-single exposure** Hexane isomers can affect the central nervous system

by inhalation causing drowsiness or dizziness.

**STOT-repeated exposure** Based on available data, the classification criteria are

not met.

**Aspiration hazard** Mixture is a class 1 aspiration hazard. It contains over

10% class 1 aspiration hazard components and has a

mixture viscosity of <20.5 mm<sup>2</sup>/s at 40 °C.



(AEROSOL)

#### **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.

Similar mixtures of isoalkanes C6-C7 with <5% n-hexane have a LC50 of 11.4 mg/L for rainbow trout (Oncorhynchus mykiss) 96 h, and an EL50 of 3.0 mg/L water flea (Daphnia magna) 48 h.

According to data available, white mineral oil is not classifiable as a danger to the aquatic environment.

#### **Acute Ecotoxicity**

See chronic ecotoxicity.

#### **Chronic Ecotoxicity**

Category 2

Toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

#### **Biodegradability**

Not available

#### Other Effects

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

Actual VOC = 75% [495 g/L]

#### **Section 13: Disposal Information**

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



SAI Global File #004008 Burlington, Ontario, Canada

#### **401B NU-TROL**<sup>TM</sup> CONTROL CLEANER

(AEROSOL)

#### **Section 14: Transport Information**

#### Ground

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

#### **Limited Quantity**



**UN number**: UN1950 **Shipping Name**: AEROSOLS, flammable

**Class:** 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

#### Air

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

#### **Limited Quantity**



**UN number**: UN1950 **Shipping Name:** AEROSOLS, flammable

**Class:** 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

#### Sea

#### Refer to IMDG regulations.

#### **Limited Quantity**



**UN number**: UN1950 **Shipping Name**: AEROSOLS, flammable

**Class:** 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

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

Page **14** of **17** 



(AEROSOL)

#### **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 substances that are listed as hazardous air pollutants.

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

This product does not contain ingredients that are 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.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, USA).

This product contains n-hexane, which is listed as reproductively toxic.

Section continued on the next page

Page **15** of **17** 



SAI Global File #004008 Burlington, Ontario, Canada

#### **401B Nu-Trol<sup>TM</sup> Control Cleaner**

(AEROSOL)

#### **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** MG Chemicals' Regulatory Department

**Date of Review** 08 April 2024

**Supersedes** 27 January 2021

**Reason for Changes:** Update to date of review.

#### 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).

Section continued on the next page

SAI Global File #004008 Burlington, Ontario, Canada

#### 401B NU-TROL<sup>TM</sup> CONTROL CLEANER

(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.

Email: support@mqchemicals.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.