

# AUDIO VIDEO HEAD CLEANER Safety Data Sheet

**Section 1: Identification** 

**Product Identifier and Other Means of Identification** 

Product Identifier: 407C

Other Means of Identification: Audio Video Head Cleaner

Related Part # 407C-Liquid; 407C-125ML, 407C-250ML, 407C-1L

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

Use: Magnetic tape head cleaner

Uses Advised Against: Not applicable

#### **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

<b>A</b>	+1-800-340-0772
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+1-905-331-1396
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 E-mail info@mgchemicals.com

E-маіс (Competent Person): <u>sds@mgchemicals.com</u>

#### **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
Flammable Liquid		2	Danger	Flame
Aspiration Hazard		1	Danger	Health
Reproductive Toxicity		2	Warning	Health
Skin Irritation		2	Warning	Exclamation
Eye 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

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 vapour
	H304: May be fatal if swallowed and enters airways
	H361: Suspected of damaging fertility or the unborn child
	H319: Causes serious eye irritation
	H315: Cause skin irritation
$\checkmark$	H336: May cause dizziness or drowsiness
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Pictograms	Hazard Statements
¥2	H411: Toxic to aquatic life with long lasting effects
Prevention	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P201 + P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
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.
P261 + P271	Avoid breathing vapors. Use only outdoors or in a well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and eye protection.
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.
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
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.
P332 + P313	If skin irritation 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 attention.
P391	Collect spillage
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.

#### **Other Hazards**

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)
67-63-0	propan-2-ol a)	50%
107-83-5	methyl-2-pentane	15–25%
96-14-0	methyl-3-pentane	5-10%
79-29-8	dimethyl-2,3-butane	5-10%
75-83-2	dimethyl-2,2-butane	3-7%
110-54-3	n-hexane	1-2%

a) Commonly known as isopropyl alcohol (IPA)



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Section 4: First-Aid Measures	
Exposure Condition	GHS Code/Symptoms/Precautionary Statements
IF SWALLOWED	P301 + P330, P331, 308 +P313
Immediate Symptoms	abdominal pain, nausea, headaches, dizziness, drowsiness, vomiting
Response	Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting.
	If exposed or concerned: Get medical advice.
IF ON SKIN (or hair)	P303 + P361 + P352, P332 + P313, P363
Immediate Symptoms	irritation, dry skin, redness
Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water or shower.
	If skin irritation occurs: Get medical advice or attention.
	Wash contaminated clothing before reuse.
IF INHALED	P304 + P340, P312, P308 + P313
Immediate Symptoms	cough, shortness of breath, dizziness, drowsiness, headaches
Response	Remove person to fresh air and keep comfortable for breathing.
	If feeling unwell: Call a POISON CENTRE or doctor.
	If exposed or concerned: Get medical advice.
IF IN EYES	P305 + P351 + P338, P336 + P313
Immediate Symptoms	irritation, redness, pain
Response	Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical attention.



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Section 5: Fire-Fighting Measures		
Extinguishing Media	In case of fire: Use dry chemical, carbon dioxide, alcohol- resistant foam, or water spray to extinguish.	
	Use water spray to cool containers.	
Specific Hazards	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.	
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ).	
Fire-Fighter	Wear self-contained breathing apparatus and full firefighting turn-out gear.	

# Section 6: Accidental Release Measures

Personal Protection	See personal protection recommendations in Section 8.
Precautions for Response	Avoid breathing vapors or mist. Remove or keep away all sources of ignition or extreme heat.
Environmental Precautions	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment Methods</b>	Contain with inert and non-flammable 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.
	<b>Recommendation:</b> Use a grounded stainless steel or carbon steel container or a solvent resistant plastic container.
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, open flames and other ignition sources. No smoking.	
	Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof equipment.	
	Use only outdoors or in a well-ventilated area. Avoid breathing vapors.	
	Avoid release to the environment.	
Handling	Wear protective gloves and eye protection.	
	Wash hands thoroughly after handling.	
	Collect spillage.	
Storage	Keep container tightly closed. Store in a well-ventilated area. Keep cool.	
	Store locked up.	

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

#### Substances with Occupational Exposure Limit Values

Chemical Name	Country/Province	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
propan-2-ol	ACGIH	200 ppm (TWA)	400 ppm
	U.S.A. OSHA PEL	400 ppm	Not established
	Canada AB	200 ppm	400 ppm
	Canada BC	200 ppm	400 ppm
	Canada ON	200 ppm	400 ppm
	Canada QC	400 ppm	500 ppm
methyl-2-pentane	ACGIH	500 ppm	Not established
	U.S.A. OSHA PEL	500 ppm	Not established
	Canada AB	500 ppm	1 000
	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000
	Canada QC	500 ppm	1 000

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Chemical Name	Country/Province	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
methyl-3-pentane	ACGIH	500 ppm	Not established
	U.S.A. OSHA PEL	500 ppm	Not established
	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-	ACGIH	500 ppm	Not established
pentane	U.S.A. OSHA PEL	500 ppm	Not established
	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-	ACGIH	500 ppm	Not established
pentane	U.S.A. OSHA PEL	500 ppm	Not established
	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
n-hexane	ACGIH	50 ppm	Not established
	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	50 ppm	Not established
	Canada BC	20 ppm	Not established
	Canada ON	50 ppm	Not established
	Canada QC	50 ppm	Not established

*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 the RTECS database<sup>2</sup> and from suppliers' SDSs were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

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Engineering Controls	
Ventilation	Keep airborne concentrations below the occupational exposure limits (OEL).
Personal Protective Equ	ipment
Eye protection	Wear appropriate protective eyeglasses or chemical safety goggles.
	<b>RECOMMENDATION:</b> 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.
<b>Respiratory Protection</b>	For over-exposures up to 10 x OEL of mist, vapors, or 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.
	<b>RECOMMENDATION:</b> 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.

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Section 9: Physical and	<b>Chemical Properties</b>
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Physical State	Liquid	Lower Flammability Limit <sup>a)</sup>	1%
Appearance	Colorless	Upper Flammability Limit <sup>a)</sup>	8%
Odor	Alcohol, mild	Vapor Pressure	13.6 kPa
	hydrocarbon	@20 °C <sup>a)</sup>	[102 mmHg]
Odor Threshold	Not available	Vapor Density	>2.1 (Air = 1)
рН	Not available	Relative Density @25 °C	0.72
Freezing/Melting	-90 °C	Solubility in	Partially soluble
Point	[-130 °F]	Water	
Initial Boiling	≥49 °C	Partition Coefficient	Not
Point <sup>b)</sup>	[≥121 °F]	n-octanol/water	available
Flash Point <sup>b)</sup>	-29 °C	Auto-ignition	≥234 °C
	[-20 °F]	Temperature <sup>c)</sup>	[≥453 °F]
Evaporation	>0.8	Decomposition	Not
Rate	(ButAc = 1)	Temperature	available
Flammability	Highly Flammable	Viscosity @25 °C	<1 mm²/s

a) Values calculated using Raoult's Law and Le Chatelier principle for solvent components.

b) The values for the boiling point and closed cup flash point are based on the isohexane components.

c) The auto-ignition value is based on n-hexane.

#### Section 10: Stability and Reactivity

Reactivity	Reacts exothermically with amines.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures.
Conditions to Avoid	Avoid open flames, ignition sources, temperatures above 50 °C [122 °F], and incompatible substances.
Incompatibilities	Strong oxidizing agents, strong acids, strong bases, powdered aluminum at $\geq$ 49 °C [ $\geq$ 120 °F]
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

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#### Section 11: Toxicological Information

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

**Eyes** Causes serious eye irritation, tearing, redness or pain.

**Skin** Causes skin irritation.

**Inhalation** May cause nose, throat and lung irritation. Overexposure may lead to visual impairment and central nervous system effects such as dizziness, drowsiness, or weakness.

**Ingestion** Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. See inhalation symptoms.

**Chronic** Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort.

Ingestion or inhalation of material, mist, or vapor during pregnancy increases the chances fetal death and developmental defects.

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
isopropyl alcohol	3 600 mg/kg	12 800 mg/kg	16 000 ppm
	Rat	Rabbit	8 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
n-hexane	15 480 mg/kg	>1.3 g/kg	627 000 ppm
	Rat	Rabbit <sup>a)</sup>	3 min Rat

#### Acute Toxicity (Lethal Exposure Concentrations)

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

a) Supplier SDS

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Other Toxicological Effects

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Skin Corrosion/Irritation	Causes skin irritation
Serious Eye Damage/Irritation	Causes serious eye irritation.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity (risk of cancer)	Not classified or listed as a carcinogen by IARC, NTP, ACGIH, or CA Prop 65.
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	The n-hexane component causes harm to fertility according to animal studies.
<b>Teratogenicity</b> (risk of fetus malformation)	The n-hexane component causes harm to fetus according to animal studies.
STOT-Single Exposure	Inhalation of hexane isomers and propan-2-ol may affect the central nervous system 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 50% class 1 aspiration hazard components and has a mixture viscosity of <20.5 mm <sup>2</sup> /s at 40 °C.

#### 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 (<u>http://echa.europa.eu</u>), and other reliable sources.

Isoalkanes are chronic category 2 aquatic toxicant based on similar mixtures of isoalkanes C6-C7 with <5% n-hexane that have a LC50 96 h of 11.4 mg/L for rainbow trout (Oncorhynchus mykiss), and an EL50 48 h of 3.0 mg/L water flea (Daphnia magna).

Mixtures of isoalkanes C6-C7 with <5% n-hexane suggest an EC50 >2 mg/L for fish using a QSAR model. For water flea (Daphnia magna) a NOELR 21 days of 1 mg/L and an EL50 of 1.6 mg/L.

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Based on available data, propan-2-ol does not meet the environmental toxicant classification with LC50 and EC50 >100 mg/L.

• Propan-2-ol has a minimal LC50 96 h of 9 640 mg/L for Pimephales promelas (fathead minnow); an EC50 24 h of 5 102 mg/L Daphnia magna (water flea); and an EC50 72 h of 2 000 mg/L Desmodesmus subspicatus (green algae).

#### **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**

Volatile Organic Content (VOC) = 100% [720 g/L]

#### Section 13: Disposal Information

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

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#### 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 1 L and under 407C-250ML, 407C-1L

#### Limited Quantity



#### Air

Refer to ICAO-IATA Dangerous Goods Regulations.		
Sizes 0.5 L and under	Sizes greater than 0.5 L up to 5 L (passenger), 60 L (cargo)	
407C-250ML Limited Quantity Max Net Qty/Pkg = 1 L Y	407C-1L UN number: UN1993 Shipping Name: Flammable Liquid, N.O.S (isopropyl alcohol, hexanes) Class: 3 Packing Group: II Marine Pollutant: Yes	

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#### Sea

# Refer to IMDG regulations. Sizes 1 L and under 407C-250ML, 407C-1L Limited Quantity VN number: UN1993 Shipping Name: Flammable Liquid, N.O.S (isopropyl alcohol, hexanes) Class: 3 Packing Group: II Marine Pollutant: Yes

*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**



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 contains n-hexane which is listed as hazardous air pollutants.

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

This product contains propan-2-ol (CAS# 67-63-0) 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 n-hexane (CAS# 110-54-3; reportable quantity = 5 000 lb), which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

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

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

#### 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 Creation	28 May 2020
Supersedes	26 February 2020
Reason for Changes:	Added new part 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®)

#### Abbreviations

- ACGIH American Conference of Governmental Industrial Hygienists (USA)
- 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
- Wt Weight

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**Technical Queries** 

ISO 9001:2015 Quality Management System SAI Global File #004008

Burlington, Ontario, Canada

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Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at <a href="http://www.mgchemicals.com">www.mgchemicals.com</a>.

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

Mailing Addresses	Manufacturing & Support 1210 Corporate Drive Burlington, Ontario Canada, L7L 5R6	Head Office 9347-193rd Street Surrey, British Columbia, Canada, V4N 4E7
Disclaimer	This safety data sheet is provided as an information resou only. <i>M.G. Chemicals, Ltd.</i> believes the information contain herein is accurate and compiled from reliable sources. It is	

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.

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