

ACETONE

434

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Acetone**SDS Code:** 434**Related Part #** 434-1L, 434-4L

### Recommended Use and Restriction on Use

**Use:** Solvent**Uses Advised Against:** Not applicable

### Details of Manufacturer or Importer

**Manufacturer**MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADAMG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA**☎** +1-800-340-0772**☎** +1-905-331-1396**FAX** +1-800-340-0773**FAX** +1-905-331-2682**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)**E-MAIL** [info@mgchemicals.com](mailto:info@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

### Emergency Phone Number

**For hazardous material incidents ONLY**—leaks, spills, fires, exposures or accidents  
USA or CANADA: Call CHEMTREC ☎: **+1-800-424-9300****For emergencies involving dangerous goods;** Collect 24/7  
CANADA: Call CANUTEC ☎: **+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
Eye Irritation	2	Warning	Exclamation
Specific target organ toxicity single exposure	3	Warning	Exclamation

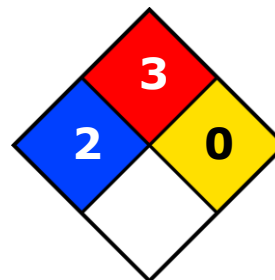
*Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.*

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>* 2</b>
<b>FLAMMABILITY:</b>	<b>3</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**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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**Label Elements**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H225: Highly flammable liquid and vapor
	H319: Causes serious eye irritation H336: May cause drowsiness and dizziness
<b>Prevention</b>	<b>Precautionary Statements</b>
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241 + P243	Use explosion-proof electrical/ventilating/ lighting equipment. Take precautionary measures against static discharge.
P261 + P271	Avoid breathing mist/vapors/spray. Use only outdoors or in well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
<b>Response</b>	<b>Precautionary Statements</b>
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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/attention.
P304 + P340, P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.

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<b>Storage</b>	<b>Precautionary Statements</b>
P403 + P235	Store in well ventilated place. Keep cool.
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents/container in accordance to local/regional/international regulations.

**Hazards Not Otherwise Classified**

Repeated exposure may cause skin dryness or cracking.

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

<b>CAS #</b>	<b>Chemical Name</b>	<b>Wt%</b>
67-64-1	acetone	100%

**Section 4: First Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF ON SKIN (or hair)</b>	P302 + P352, P362, P332 + P313
<b>Immediate Symptoms</b>	<i>dry skin</i>
<b>Response</b>	Take off immediately all contaminated clothing. Rinse skin with water.
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>redness, severe irritation, pain</i>
<b>Response</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

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<b>IF INHALED</b>	P304 + P340, P312
<b>Immediate Symptoms</b>	<i>drowsiness, dizziness, cough, sore throat, unconsciousness</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.  If feeling unwell: Call a POISON CENTRE/doctor
<b>IF SWALLOWED</b>	P301 + P331 + P330, P313
<b>Immediate Symptoms</b>	<i>irritation, mouth and throat dryness, drowsiness, dizziness, nausea, vomiting, headaches, unconsciousness</i>
<b>Response</b>	Do NOT induce vomiting. Rinse mouth. Get medical advice.

**Section 5: Fire-Fighting Measures**

<b>Auto-ignition Temperature</b>	465 °C [869 °F]	<b>Flash Point</b> <sup>a)</sup>	-17 °C [1.4 °F]	<b>LFL [LEL]</b> <sup>b)</sup>	2.5% (v)
				<b>UFL [UEL]</b>	12.8% (v)
<b>In case of fire</b>	P370 + P378				
<b>Response</b>	Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Use water spray to cool containers.				
<b>Specific Hazards</b>	Vapors 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.				
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), and toxic combustion gases.				
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.				

b) Tag closed cup literature value

c) LFL = Lower Flammability [or Explosion] Limit (in volume %);

UFL = Upper Flammability [or Explosion] Limit (in volume %)

**ACETONE****434****Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
<b>Precautions for Response</b>	Avoid breathing the mist/spray/vapors. Remove all sources of ignition. For large spills, evacuate unnecessary and unprotected personnel. Ensure adequate ventilation.
<b>Environmental Precautions</b>	Prevent spill from entering drains and waterways.
<b>Containment Methods</b>	Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning Methods</b>	Collect the liquid in a sealable, solvent-resistant container with an electrically protected vacuum cleaner, chemical absorbent, or chemical spill pad.  <b>RECOMMENDATION:</b> Use a grounded stainless steel or carbon steel container, not plastic containers.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Avoid breathing vapors/mist. Use only outdoors or in a well-ventilated area. Do not eat, drink, or smoke when using this product.
<b>Handling</b>	Wash hands thoroughly after handling. Wear protective gloves/clothing/eye protection.
<b>Storage</b>	Keep container tightly closed. Store in a well-ventilated area. Keep cool. Store locked up.

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

**Routes of Entry**

Eyes, ingestion, inhalation, and skin

**Substances with Occupational Exposure Limit Values**

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
acetone	ACGIH	500 ppm	750 ppm
	U.S.A. OSHA PEL	1000 ppm	Not established
	Canada AB	500 ppm	750 ppm
	Canada BC	250 ppm	500 ppm
	Canada ON	500 ppm	750 ppm
	Canada QC	750 ppm	1000 ppm

*Note:* The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>2</sup> of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

**Engineering Controls**

**Ventilation** Keep airborne concentrations below exposure limits.

**Personal Protective Equipment**

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

**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).

**Skin Protection** For likely contacts, use of protective butyl rubber, fluorinated rubber, or other chemically resistant gloves.

For incidental contacts, use neoprene, natural latex 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 resistant to oils.

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

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**Recommendation:** Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this SDS, and that the respirator is fitted to the employee by a professional.

**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	2.5%
<b>Appearance</b>	Clear	<b>Upper Flammability Limit</b>	12.8%
<b>Odor</b>	Ketone-like, nail polish remover	<b>Vapor Pressure @20 °C</b>	243 hPa [182 mmHg]
<b>Odor Threshold</b>	~5 ppm	<b>Vapor Density</b>	2.01 (Air =1)
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	0.79
<b>Freezing/Melting Point</b>	-95 °C [-138 °F]	<b>Solubility in Water</b>	Soluble
<b>Boiling Point</b>	56 °C [133 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point <sup>a)</sup></b>	-17 °C [1.4 °F]	<b>Auto-ignition Temperature <sup>d)</sup></b>	465 °C [869 °F]
<b>Evaporation Rate</b>	6.3 (ButAc =1)	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not available	<b>Viscosity @40 °C</b>	<<20.5 mm <sup>2</sup> /s

a) Tag closed cup

**ACETONE****434****Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Ignition sources, excessive heat, and incompatible substances. Vapors may form explosive mixture with air.
<b>Incompatibilities</b>	Phosphorous oxychloride, strong oxidizing agents, strong bases
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5

**Section 11: Toxicological Information****Routes of Exposure**

Eyes, ingestion, inhalation, and skin

**Symptoms Summary**

<b>Eyes</b>	Causes redness, serious eye irritation, pain.
<b>Skin</b>	May cause skin dryness.
<b>Inhalation</b>	May cause drowsiness, dizziness, cough, sore throat, and unconsciousness.
<b>Ingestion</b>	May cause irritation, mouth and throat dryness, drowsiness, dizziness, nausea, vomiting, headaches, and unconsciousness.
<b>Chronic</b>	Prolonged or repeated exposure may cause skin dryness and cracking, defat skin, local redness and discomfort.  Long term exposure may affect the central nervous system, kidneys, and liver.

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**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>	<b>TCLo inhalation</b>
acetone	5 800 mg/kg Rat	20 mL/kg Rabbit <sup>a)</sup>	16 000 ppm 6h Rat	5 000 ppm 3d Rat

*Note:* Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS).<sup>2</sup> Data from supplier (M)SDS were also consulted.

a) Supplier value

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Causes mild skin irritation based on Draize tests on animals.
<b>Serious eye damage/irritation</b>	Causes severe eye irritation based on Draize tests on animals.
<b>Sensitization</b> (allergic reactions)	No data available
<b>Carcinogenicity</b> (risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
<b>Mutagenicity</b> (risk of heritable genetic effects)	No data available
<b>Reproductive Toxicity</b> (risk to sex functions)	No data available
<b>Teratogenicity</b> (risk of fetus malformation)	No data available
<b>STOT-single exposure</b>	Acetone can affect the central nervous system by inhalation causing drowsiness or dizziness.
<b>STOT-repeated exposure</b>	No data available
<b>Aspiration hazard</b>	Does not contain ingredients categorized as aspiration hazards.

## Section 12: Ecological Information

The IMDG Code criteria and the raw-material (M)SDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

Acetone is not classifiable as an environmental toxicant (with minimal LC50 96 h of 5 540 mg/L for *Oncorhynchus mykiss* (rainbow trout); EC50 48 h 13 500 mg/L *Daphnia magna* (water flea)).

The mixture is not classified as an environmental hazard under GHS thresholds.

### Acute Ecotoxicity

Does not meet classification criteria

### Chronic Ecotoxicity

Not data available

### Biodegradability

This product is biodegradable and will not bioaccumulate.

### Other Effects

VOC (EPA, WHIMS) = 0% (0 g/L) by VOC-Exemption

\*VOC = *Regulated Volatile Organic Content*

## 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 CFR 49 Regulations** (Parts 100 to 185).

Sizes 1 L and under

Limited Quantity



Sizes greater than 1 L

**UN number:** UN1090  
**Shipping Name:** Acetone  
**Class:** 3  
**Packing Group:** II  
**Marine Pollutant:** No  
Flash Point = -17 °C [1.4 °F]



**Air**

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

Size up to 5 L (passenger) or 60 L (cargo)

**UN number:** UN1090  
**Shipping Name:** Acetone  
**Class:** 3  
**Packing Group:** II  
**Marine Pollutant:** No  
Flash Point = -17 °C [1.4 °F]



**Sea**

**Refer to IMDG regulations.**

Sizes 1 L and under

Limited Quantity



Sizes greater than 1 L

**UN number:** UN1090  
**Shipping Name:** Acetone  
**Class:** 3  
**Packing Group:** II  
**Marine Pollutant:** No  
Flash Point = -17 °C [1.4 °F]



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

**Section 15: Regulatory Information****Canada****WHMIS Classification**

B2 – Flammable Liquid; D2B – Toxic Material (Eye irritation)

**Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

**Industry and Science Canada**

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

**Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

**USA****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 any substances listed as hazardous air pollutants.

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

This product contains acetone (CAS# 78-93-3, reportable quantity = 5000 lb), which can be subject to the CERCLA reporting requirements.

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product does not contain any of the listed substances.

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**ACETONE****434****Europe****RoHS**

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

**WEEE**

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** Michel Hachey

**Date of Revision** 07 November 2014

**Supersedes** 15 October 2014

**Reason for Changes:** Removal of inappropriate SCAQMD Rule 1143 statement and transport size correction, and general revision.

**References**

1) ACGIH 2013 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 (2013).

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)
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
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	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](http://www.mgchemicals.com).

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