

THINNER

435-LIQUID

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Thinner**SDS Code:** 435-Liquid**Related Part #** 435-55ML, 435-1L, 435-4L, 435-20L

### Recommended Use and Restriction on Use

**Use:** Thinner and remover of conformal coatings**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

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### 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

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



**Classification of Hazardous Chemical**

**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Flammable Liquid	2	Danger	Flame
Eye irritation	2A	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). Severity categories rankings do not allow comparisons between classes.

**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	Use explosion-proof equipment.
P243	Take action to prevent static discharges.
P261	Avoid breathing vapors/mist/spray.
P271	Use only outdoors or in well-ventilated area.
P264	Wash hands thoroughly after handling.

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<b>Prevention</b>	<b>Precautionary Statements</b>
P280	Wear protective gloves/protective clothing/eye 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.
<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**

<b>Other Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

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

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
67-64-1	acetone	92%
108-65-6	1-methoxy-2-propanol acetate	8%

**THINNER****435-LIQUID****Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF ON SKIN (or hair)</b>	P303 + P361 + P353
<b>Immediate Symptoms</b>	<i>dry skin</i>
<b>Response</b>	Take off immediately all contaminated clothing. Rinse skin with water or shower.
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>severe irritation, redness, pain</i>
<b>Response</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical advice/attention
<b>IF INHALED</b>	P304 + P340, P312
<b>Immediate Symptoms</b>	<i>cough, sore throat, nausea, headache, drowsiness, dizziness, unconsciousness</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.  Call a POISON CENTRE/doctor if you feel unwell.
<b>IF SWALLOWED</b>	P301 + P330, P331
<b>Immediate Symptoms</b>	<i>nausea, dizziness, headaches, weakness</i>
<b>Response</b>	Rinse mouth.  Do NOT induce vomiting.

**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.

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<b>Specific Hazards</b>	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.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ).
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection equipment in Section 8.
<b>Precautions for Response</b>	Avoid breathing the mist/spray/vapors. Remove or keep away all sources of ignition or extreme heat.
<b>Environmental Precautions</b>	Prevent spill from entering drains and waterways.
<b>Containment</b>	Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning</b>	Collect the liquid in a sealable, chemical-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Use soap and water to remove the last traces of residue.  <b>RECOMMENDATION:</b> Use a grounded stainless steel or carbon steel container.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children.  Keep away from heat/sparks/open flames/hot surfaces. No smoking.  Ground and bond container and receiving equipment. Take action to prevent static discharges. Use explosion-proof equipment.  Keep container tightly closed.  Avoid breathing vapors/mist/spray. Use only outdoors or in a well-ventilated area.
<b>Handling</b>	Wear protective gloves/protective clothing/eye protection.  Wash hands thoroughly after handling.
<b>Storage</b>	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	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
acetone	ACGIH	500 ppm	750 ppm
	U.S.A. OSHA PEL	1 000 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	1 000 ppm
1-methoxy-2-propanol acetate	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	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 ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS<sup>2</sup> 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.

**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:** 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.

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**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.

**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b> <sup>b)</sup>	2%
<b>Appearance</b>	Colorless	<b>Upper Flammability Limit</b> <sup>b)</sup>	13%
<b>Odor</b>	Ketone-like	<b>Vapor Pressure @20 °C</b>	>220 hPa [163 mmHg]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	2.25 (Air = 1)
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	0.80
<b>Freezing/Melting Point</b>	-94 °C [-137 °F]	<b>Solubility in Water</b>	Miscible
<b>Boiling Point</b>	≥56 °C [≥133 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point</b> <sup>a)</sup>	-17°C [1.4 °F]	<b>Auto-ignition Temperature</b>	≥505 °C [≥941 °F]
<b>Evaporation Rate</b>	3.77 (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) Closed cup value

b) Calculated based on Raoult's Law and Le Chatelier's principle

**THINNER****435-LIQUID****Section 10: Stability and Reactivity**

<b>Reactivity</b>	Acetone reacts exothermically with phosphorous oxychloride, which can lead to an explosion.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Avoid flames, sparks, other ignition sources and incompatible substances.
<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**

Eye Contact, Inhalation, Skin Contact, and Ingestion

**Symptoms Summary**

<b>Eyes</b>	Causes redness, serious eye irritation, and pain.
<b>Skin</b>	May cause dry skin.
<b>Inhalation</b>	May cause cough, sore throat, nausea, headache, and drowsiness, dizziness. Severe overexposure may lead to unconsciousness.
<b>Ingestion</b>	May cause nausea, weakness, headaches (see also inhalation symptoms).
<b>Chronic</b>	Prolonged or repeated exposure may cause skin dryness, cracking, as well as defatting the skin.

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**Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
acetone	5 800 mg/kg Rat	20 mL/kg Rabbit <sup>a)</sup>	16 000 ppm 4 h Rat <sup>a)</sup>
1-methoxy-2-propanol acetate	8 532 mg/kg Rat	>5 g/kg Rabbit	Not available

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA were consulted. The data from supplier (M)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.

**Sensitization**  
(allergic reactions) Based on available data, the classification criteria are not met.

**Carcinogenicity**  
(risk of cancer) Based on available data, the classification criteria are not met.

**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** Acetone 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** Based on available data, the classification criteria are not met. There are no 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.

Acetone and 1-methoxy-2-propanol acetate do not meet classification criteria for aquatic environmental toxicants with LC50 and EC50 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).
- The 1-methoxy-2-propanol acetate component has a minimal LC50 96 h of  $\geq 100$  mg/L *Salmo gairdneri*; and EC50 48 h >500 mg/L *Daphnia magna* (water flea).

### Acute Ecotoxicity

Available toxicity data does not meet classification thresholds.

### Chronic Ecotoxicity

Available toxicity data does not meet classification thresholds.

### Biodegradability

Not available

### Other Effects

Volatile Organic Content (VOC) = 8% [64 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 5 L and under

**Limited Quantity**



Sizes greater than 5 L

**UN number:** UN1263

**Shipping Name:**

PAINT RELATED MATERIAL

**Class:** 3

**Packing Group:** II

**Marine Pollutant:** No

Flash Point = -17°C [1.4 °F]



**Air**

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

Sizes 0.5 L and under

**Limited Quantity**

Max Net Qty/Pkg =  
1 L



Sizes greater than 0.5 L

up to 5 L (passenger), 60 L (cargo)

**UN number:** UN1263

**Shipping Name:**

PAINT RELATED MATERIAL

**Class:** 3

**Packing Group:** II

**Marine Pollutant:** No

Flash Point = -17°C [1.4 °F]



**Sea**

**Refer to IMDG regulations.**

Sizes 5 L and under

**Limited Quantity**



Sizes greater than 5 L

**UN number:** UN1263

**Shipping Name:**

PAINT RELATED MATERIAL

**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**

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

All hazardous ingredients are listed on the DSL.

**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.

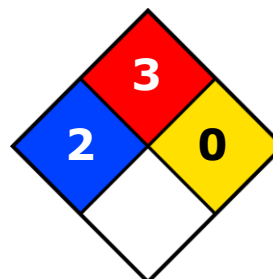
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>*</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)

**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 contains acetone (CAS# 67-64-1), which is subject to the CERCLA reporting requirements at the 5000 lb (2268 kg) threshold.

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**THINNER****435-LIQUID****TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, June 06, 2014 revision, USA).

This product does not contain any substances known to be listed in California.

**Europe****RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, 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**

<b>SDS Prepared by</b>	Michel Hachey
<b>Date of Revision</b>	04 April 2016
<b>Supersedes</b>	29 February 2016
<b>Reason for Changes:</b>	Changes to better meet HCS 2012 and WHMIS 2015 requirements.

**Reference**

- 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®)

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**THINNER****435-LIQUID****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](http://www.mgchemicals.com).

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