

THINNER

435-LIQUID

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Identifier:** Thinner**Other Means of Identification:** Not applicable**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

**☎** +1-800-340-0772**FAX** +1-800-340-0773**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** [info@mgchemicals.com](mailto:info@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 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       |
| 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<br>H336: May cause drowsiness and dizziness                |
| <b>Prevention</b>   | <b>Precautionary Statements</b>  |
| P210  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| 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, or spray.  |
| P271  | Use only outdoors or in well-ventilated area.  |
| P233  | Keep container tightly closed.   |

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| <b>Prevention</b>  | <b>Precautionary Statements</b>  |
|--------------------|--|
| P264               | Wash hands thoroughly after handling.  |
| P280               | Wear protective gloves, protective clothing, and 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 or attention.   |
| P304 + P340, P312  | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.    |
| <b>Storage</b>     | <b>Precautionary Statements</b>  |
| P403 + P235        | Store in a 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 at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br><br>If eye irritation persists: Get medical advice or 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.<br><br>Call a POISON CENTRE or 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.<br><br>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, or 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.<br><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.<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>Ground and bond container and receiving equipment. Take action to prevent static discharges. Use explosion-proof equipment.<br>Avoid breathing vapors, mist, or spray. Use only outdoors or in a well-ventilated area. Keep container tightly closed. |
| <b>Handling</b>   | Wear protective gloves, protective clothing, and eye protection.<br>Wash hands thoroughly after handling.   |
| <b>Storage</b>    | Store in a well-ventilated area. Keep cool.<br>Store locked up.   |

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**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.

*Section continued on the next page*

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**Respiratory Protection**

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.

**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<br>[163 mmHg]   |
| <b>Odor Threshold</b>            | Not available       | <b>Vapor Density</b>                          | 2.25 (Air = 1)           |
| <b>pH</b>                        | Not available       | <b>Relative Density @25 °C</b>                | 0.80                     |
| <b>Freezing/Melting Point</b>    | -94 °C<br>[-137 °F] | <b>Solubility in Water</b>                    | Miscible                 |
| <b>Initial Boiling Point</b>     | ≥56 °C<br>[≥133 °F] | <b>Partition Coefficient n-octanol/water</b>  | Not available            |
| <b>Flash Point</b> <sup>a)</sup> | -17°C<br>[1.4 °F]   | <b>Auto-ignition Temperature</b>              | ≥505 °C<br>[≥941 °F]     |
| <b>Evaporation Rate</b>          | 3.77<br>(ButAc = 1) | <b>Decomposition Temperature</b>              | Not available            |
| <b>Flammability</b>              | Highly Flammable    | <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

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

|                   |   |
|-------------------|---|
| <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.                             |

**Acute Toxicity (Lethal Exposure Concentrations)**

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

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

a) Supplier safety data sheet

*Section continued on the next page*



**THINNER****435-LIQUID****Other Toxicological Effects**

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>                           | Based on available data, the classification criteria are not met.                                     |
| <b>Serious eye damage/irritation</b>                       | Acetone is a known serious eye irritant.  |
| <b>Sensitization</b><br>(allergic reactions)               | Based on available data, the classification criteria are not met.                                     |
| <b>Carcinogenicity</b><br>(risk of cancer)                 | Based on available data, the classification criteria are not met.                                     |
| <b>Mutagenicity</b><br>(risk of heritable genetic effects) | Based on available data, the classification criteria are not met.                                     |
| <b>Reproductive Toxicity</b><br>(risk to sex functions)    | Based on available data, the classification criteria are not met.                                     |
| <b>Teratogenicity</b><br>(risk of fetus malformation)      | Based on available data, the classification criteria are not met.                                     |
| <b>STOT-single exposure</b>                                | Acetone can affect the central nervous system by inhalation causing drowsiness or dizziness.          |
| <b>STOT-repeated exposure</b>                              | Based on available data, the classification criteria are not met.                                     |
| <b>Aspiration hazard</b>                                   | 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

435-1L, 435-4L

**Limited Quantity**



Sizes greater than 5 L

**UN number:** UN1263

**Shipping Name:**

PAINT RELATED MATERIAL

**Class:** 3

**Packing Group:** II

**Marine Pollutant:** No



**Air**

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

Sizes 0.5 L and under

**Limited Quantity**

Max Net Qty/Pkg =

1 L



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

435-1L, 435-4L

**UN number:** UN1263

**Shipping Name:**

PAINT RELATED MATERIAL

**Class:** 3

**Packing Group:** II

**Marine Pollutant:** No



**Sea**

**Refer to IMDG regulations.**

Sizes 5 L and under

435-1L, 435-4L

**Limited Quantity**



Sizes greater than 5 L

**UN number:** UN1263

**Shipping Name:**

PAINT RELATED MATERIAL

**Class:** 3

**Packing Group:** II

**Marine Pollutant:** No



**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.

**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.

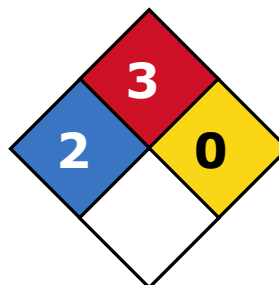
**USA**

**Other Classifications**

**HMIS® RATING**

|                             |            |
|-----------------------------|------------|
| <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)

**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 5 000 lb (2 268 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, 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, 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**

|                            |  |
|----------------------------|--|
| <b>SDS Prepared by</b>     | Regulatory Affairs Department            |
| <b>Date of Revision</b>    | 28 February 2020                         |
| <b>Supersedes</b>          | 04 April 2016                            |
| <b>Reason for Changes:</b> | Update to emergency contact information. |

**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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**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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