

Thinner Cleaner Solvent

435



For thinning M.G. Chemicals Coating up to 50%. Also for use cleaning workplace and equipment after using conformal coatings.

- Fast evaporating
- Highly flammable

Available Sizes

Catalog Number	Sizes Available	Description
435-55ML	55ml (2 oz)	Liquid
435-1L	1L (33 oz)	Liquid
435-4L	4L (1 gal)	Liquid



Material Safety Data Sheet

Section 1: Product Identification

MSDS Code: 435 - liquid

Name: Thinner Cleaner

Related Part Numbers: 435-55ML; 435-1L; 435-4L

Use: Cleaner and degreaser for electronics.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha PeI	Osha Stel
67-64-1	2-propanone	85 - 95	750ppm	1000ppm	1000ppm
108-65-6	1-methoxy-2-propanol acetate	5 - 15	n/e	n/e	n/e

Section 3: Hazards Identification

WHMIS Codes: B2, D2B

NFPA Ratings: Health 1 Flammability 3 Reactivity 0

HMIS Ratings: Health 1 Flammability 4 Reactivity 0

Eyes: Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury.

Skin: May cause skin irritation characterized by redness, dryness, and inflammation.

Inhalation: Inhalation of high concentrations may cause central nervous system depression.

Ingestion: May cause digestive tract irritation. May cause kidney damage, liver damage, and central nervous system depression.

Chronic: Long-term exposure may cause liver or kidney damage.

Section 4: First Aid Measure

Eyes: Remove contact lenses. Flush with water or saline for 20 minutes. Get medical aid.

Skin: Wash skin with large quantities of soap and water. Get medical aid if symptoms persist.

Inhalation: Immediately remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion: Do not induce vomiting. If conscious, give 1-2 glasses of water. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature: 465°C **Flash Point:** -18°C **LEL / UEL:** 2 / 12

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

General Information: Will burn if involved in a fire. Vapors can travel to source of ignition and flash back.

Section 6: Accidental Release Measures

Spill Procedure: Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.

Storage: Keep away from sources of ignition. Store in a cool, dry, well ventilated area, away from incompatible substances.

Section 8: Exposure Controls

Routes of entry: Eyes, ingestion, inhalation, and skin.

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protection: Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	liquid	Odor:	ketone	Solubility:	miscible	Evaporation Rate:	2.7 (ether=1)
Boiling Point:	56°C	Specific Gravity:	0.79	Vapor Pressure:	1 PSI @21°C	Vapor Density:	2 (Air=1) pH: n/a

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Temperatures over 40°C, ignition sources, and incompatible materials. Exposure to moist air or water.

Incompatibilities: Strong oxidizing agents, alkalis, strong mineral acids, amines, and activated carbon.

Polymerization: Will not occur.

Decomposition: Carbon dioxide, carbon monoxide.

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) Repeated skin contact may cause defatting of the skin resulting in dermatitis.

Carcinogenicity: (risk of cancer) No

Teratogenicity: (risk of malformation in an unborn fetus) No

Reproductive Toxicity: (risk of sterility) No

Mutagenicity: (risk of heritable genetic effects) No

Lethal Exposure Concentrations:	Ingestion(LD50): 5800 mg/kg (rat)	Inhalation (LC50): 16000 ppm/6H (rat)	Skin (LD50): n/e
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Section 12: Ecological Information

General Information:	Avoid runoff into storms and sewers which lead into waterways. Water runoff can cause environmental damage.
Volatile Organic compounds, % by weight:	7%
Volatile Organic compounds, grams per litre:	55.3 g/L

Section 13: Disposal Information

General Information:	Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.
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Section 14: Transportation Information

Ground: (all sizes 1 liter or less)

Consumer Commodity/ORM-D.

Ground: (all sizes larger than 1 liter)

Shipping name: Paint related material, UN#1263, Packing group 2, Flash Point -18°C. Shipper must be trained and certified. Refer to CFR 49 regulations, TDG regulation (Canada).

Air:

All sizes must be shipped through a dangerous goods consultant. Shipper must be trained and certified. Refer to IATA regulations.

Sea:

Shipper must be trained and certified. Refer to IMDG regulations. Liquids 1Liter or less--limited quantity, UN#1263, Paint, Class 3, Packing Group 2, Flash Point -18, Liquids over 1 liter—shipping name paint related material, UN#1263, Class 3, packing group 2, Flash Point -18. Storage category "A", segregation as for class 9 but away from sources of heat and separated from goods of class 1 except for those in division 1.4.

Section 15: Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

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

This product does not contain any chemicals 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.

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleters.

This product does not contain any class 2 ozone depleters.

This product contains methanol, listed as a hazardous air pollutant.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product does not contain any chemicals listed.

Health Canada

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.