4351

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: Thinner 1

Other Means Of Identification: Diluant 1

Related Part # 4351-50ML, 4351-1L, 4351-4L, 4351-20L

Recommended Use and Restriction on Use

Use: Mild thinner and paint remover for coatings and paints

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer
MG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA

☎ +1-800-340-0772
FAX +1-800-340-0773
E-MAIL support@mgchemicals.com
WEB www.mgchemicals.com

E-MAIL (Competent Person): 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

Section 2: Hazards Identification

Classification of the Hazardous Material

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). Severity categories rankings do not allow comparisons between classes.

Label Elements

Signal Word	**DANGER**
Pictograms	**Hazard Statements**
	H225: Highly flammable liquid and vapor
	H319: Causes serious eye irritation H336: May cause drowsiness or dizziness
No Symbol Mandated	H316: Causes mild skin irritation

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Prevention	**Precautionary Statements**
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and lighting equipment.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist, vapors or spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection, and face protection.
P264	Wash hands thoroughly after handling.
Response	**Precautionary Statements**
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, water fog, or chemical foam to extinguish.
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	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
P332 + P313	If skin irritation occurs: Get medical advice.
Storage	**Precautionary Statements**
P403 + P235	Store in a well-ventilated area. Keep cool.
P405	Store locked up.
Disposal	**Precautionary Statements**
P501	Dispose of contents in accordance to local, regional, national, and international regulations.

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Hazards Not Otherwise Classified

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)]	75–85%
123-86-4	n-butyl acetate	22–25%

a) Commonly known as isopropyl alcohol (IPA)

Section 4: First-Aid Measures

Exposure Condition	*GHS Code: Precautionary Statement*
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	*irritation, redness, pain*
Response	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF ON SKIN (or hair)	P303 + P361+ P353, P332 + P313
Immediate Symptoms	*irritation, dry skin, redness*
Response	Wash with plenty of water or shower. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice or attention.
IF INHALED	P304 + P340, P312
Immediate Symptoms	*irritation of the respiratory track, dizziness, drowsiness, headaches, weakness, unconsciousness*
Response	Remove person to fresh air and keep comfortable for breathing. If feeling unwell: Call a POISON CENTER or doctor.

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IF SWALLOWED	P301 + P330 + P331, P312
Immediate Symptoms	*respiratory system irritation, nausea, headaches, weakness, unconsciousness*
Response	Rinse mouth. Do not induce vomiting. Call a POISON CENTRE or doctor if you feel unwell.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: use dry chemical, carbon dioxide, or chemical foam 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. Material may float and ignite on surface of water.
Combustion Products	Produces carbon oxides (CO, CO_2), halogenated compounds, and hydrogen fluorides
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turnout gear.

Section 6: Accidental Release Measures

Personal Protection	Use personal protection recommended in Section 8.
Precautions for Response	Remove or keep away all sources of ignition or extreme heat. Avoid breathing the vapors, mist, and spray.
Environmental Precautions	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
Containment Methods	Contain with inert 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. **RECOMMENDATION**: Use a grounded stainless steel or carbon steel container.
Disposal Methods	Dispose spill waste according to Section 13.

Section 7: Handling and Storage

Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	For metal containers, ground and bond container and receiving equipment.
	Take precautionary measures against static discharge. Use explosion-proof electrical, ventilating, and lighting equipment.
	Avoid breathing mist or vapors.
	Use only outdoors or in well-ventilated area. In cases of inadequate ventilation wear respiratory protection.
Handling	Wear protective gloves, protective clothing, eye protection, and face protection.
	Wash hands thoroughly after handling.
Storage	Keep container tightly closed. Keep away from oxidizing materials.
	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)
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

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Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
n-butyl acetate	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	150 ppm 150 ppm 150 ppm 20 ppm 150 ppm 150 ppm	Not established Not established 200 ppm 200 ppm Not established 200 ppm

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH[1], OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database[2] and from suppliers' SDSs were also consulted. Short term exposure limits (STEL) are usually 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: Ensure that glasses have side shields for lateral protection.

Skin Protection Wear appropriate protective clothing to prevent skin contact.

RECOMMENDATION: Use of protective gloves in butyl rubber, nitrile rubber, or other chemically resistant gloves.

Respiratory Protection For over-exposures up to 10 x OEL of mist, vapors, and 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

Physical State	Liquid	**Lower Flammability Limit** [b]	2%
Appearance	Colorless	**Upper Flammability Limit** [b]	12%
Odor	Alcohol-like	**Vapor Pressure @20 °C** [b]	290 kPa [217 mmHg]
Odor Threshold	Not available	**Vapor Density**	≥2 (Air =1)
pH	Not available	**Relative Density @23 °C**	0.80
Freezing/Melting Point	Not available	**Solubility in Water**	Partially soluble
Initial Boiling Point	≥81.8 °C [≥179 °F]	**Partition Coefficient n-octanol/water**	Not available
Flash Point [a]	12 °C [54 °F]	**Auto-ignition Temperature** [c]	407 °C [765 °F]
Evaporation Rate	1.5 (ButAc = 1)	**Decomposition Temperature**	Not available
Flammability	Highly Flammable	**Viscosity @40 °C**	<3 mm^2/s

a) Closed cup value based on propan-2-ol literature value
b) Calculated based on Raoult's Law and Le Chatelier's principle
c) Values based on n-butyl acetate, which is the component with the lowest auto-ignition value.

Section 10: Stability and Reactivity

Reactivity	May form explosive mixture with aluminum powder when heated at temperatures ≥49 °C [≥120 °F].
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Ignition sources, excessive heat, and incompatible substances. Vapors may form explosive mixture with air.
Incompatibilities	Strong oxidizing agents, strong acids, strong bases, aluminum at temperatures ≥49 °C [≥120 °F]

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Polymerization	Will not occur
Decomposition	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

Eyes	Causes serious eye irritation, redness or pain.
Skin	Cause mild to moderate skin irritation.
Inhalation	May cause drowsiness or dizziness. Excessive exposure may cause narcotic effects. Inhalation of vapors may cause irritation to the nose, throat and lung (upper respiratory tract).
Ingestion	May be harmful if swallowed.
Chronic	Prolonged or repeated exposure may cause skin dryness and cracking, and defat skin.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
propan-2-ol	3 600 mg/kg Rat	12 800 mg/kg Rabbit	16 000 ppm 8 h Rat
n-butyl acetate	>10 768 mg/kg Rat	>17 600 mg/kg Rabbit	390 ppm 4 h Rat
ATE Mixture	>2 000 mg/kg	>2 000 mg/kg	>20 mg/L (vapor)

Note: Toxicity data from the RTECS[2] and ECHA databases were consulted. The data from supplier SDSs were also consulted.

Other Toxicological Effects

Skin corrosion/irritation	N-butyl acetate causes skin irritation (moderately irritating to rabbit skin: Draize test 500 mg and 24 h). Propan-2-ol is a mild skin irritant.
Serious eye damage/irritation	Propan-2-ol and n-butyl acetate Draize tests causes severe eye irritation for rabbits.

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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, ACGIH, CA Prop 65, or NTP.
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
Reproductive Toxicity (risk to sex functions)	Not classifiable as a reproductive hazard under GHS. Fetotoxicity for n-butyl acetates is observed in female rats for inhalation at extremely high doses of 1 500 ppm.
Teratogenicity (risk of fetus malformation)	Based on available data, the classification criteria are not met.
STOT-single exposure	Inhalation of propan-2-ol and n-butyl acetate may affect the central nervous system and may cause drowsiness, dizziness, and narcotic effects
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	The liquid content does not meet the aspiration hazard criteria. The mixture doesn't contain category 1 substances.

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.

The 2-propanol component is not classifiable as an environmental toxicant with minimal LC50 of 9 640 mg/L 96 h for Pimephales promelas (fathead minnow); EC50 of 5 102 mg/L 24 h Daphnia magna (water flea); EC50 >2 000 mg/L 72 h Desmodesmus subcapitatus (green algae).

The n-butyl acetate ingredient is an acute category 3 environmental toxicant liquid (biodegradable, with minimal LC50 of 18 mg/L for fathead minnow).

Acute Ecotoxicity

Available toxicity data does not meet classification thresholds.

Section continued on the next page

Chronic Ecotoxicity

Available toxicity data does not meet classification thresholds.

Biodegradability

Not available

Other Effects

Regulated Volatile Organic Compound (VOC) content = 100% (800 g/L)

Section 13: Disposal Information

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

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	Sizes greater than 5 L
4351-50ML, 4351-1L, 4351-4L **Limited Quantity** 	*4351-20L* **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 up to 5 L (passenger), 60 L (cargo)
	4351-50ML, 4351-1L, 4351-4L, 4351-20L **UN number:** UN1263 **Shipping Name:** PAINT RELATED MATERIAL **Class:** 3 **Packing Group:** II **Marine Pollutant:** No 

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Sea

Refer to IMDG regulations.	
Sizes 5 L and under *4351-50ML, 4351-1L, 4351-4L* **Limited Quantity** 	Sizes greater than 5 L *4351-20L* **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/NDSL.

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.

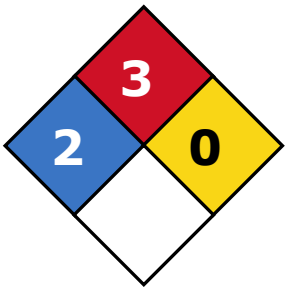
USA

Other Classifications

HMIS® RATING

HEALTH:	**2**
FLAMMABILITY:	**3**
PHYSICAL HAZARD:	**0**
PERSONAL PROTECTION:	

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 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 ≥75% 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 ≥22% n-butyl acetate (CAS# 123-86-4), which is subject to the CERCLA reporting requirements at the 5 000 lb (2 268 kg) threshold.

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 of the listed substances.

SCAQMD Rule 1143 (California South Coast District)

Within the boundaries of the South Coast Air Quality Management District (in California), this product is for commercial and industrial use only, and must not be displayed for retail sale to consumers.

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

SDS Prepared by	MG Chemical's Regulatory Department
Date of Revision	06 May 2022
Supersedes	06 March 2020

Reason for Changes: Minor changes through out the SDS.

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References

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)
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
PEL	Permissible Exposure Limit
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.

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