THINNER 1 **4351**

Safety Data Sheet

Section 1: Product and Company Identification

Product Identifier and Other Means of Identification

Product Name: Thinner 1 **MSDS Code:** 4351

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

MG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA

☎ 1-905-331-1396
FAX 1-905-331-2682
E-MAIL: info@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 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: Hazards Identification

Classification of Hazardous Chemical

WHMIS Classification

B2 – Flammable Liquid; D2B – Toxic Material (Central nervous system intoxicant; Eye Irritant)

GHS Categories

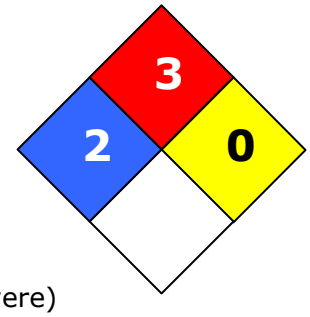
Criteria	Category	Signal Word	Pictograms
Flammable Liquid	2	Danger	
Eye irritation	2	Warning	
Specific Target Organ Toxicity Single Exposure	3	Warning	
Skin irritation	3	Warning	No Symbol Mandated

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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Label Elements

Signal Word	**DANGER**
Pictograms	**Hazard Statements**
	H225: Highly flammable liquid and vapor
	H319: Causes serious eye irritation H336: May cause drowsiness and dizziness
No Symbol Mandated	H316: Causes mild skin irritation
	Precautionary Statements
	P102: Keep out of reach of children. P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280: Wear protective gloves/eye protection. P260: Do not breathe fume/gas/vapors/spray. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other Hazards

Not applicable

Section 3: Hazardous Ingredients

CAS #	Chemical Name	Wt%
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
Symptoms	Immediate: *irritation, redness, pain*
Response	P351: Rinse cautiously with water for several minutes. P338: Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists	P313: Get medical advice/attention.
IF ON SKIN	P302
Symptoms	Immediate: *irritation, dry skin, redness*
Response	P353: Rinse skin with water/shower. P362+ P364: Take off contaminated clothing and wash it before reuse.
If skin irritation persists	P313: Get medical advice/attention.
IF INHALED	P304
Symptoms	Immediate: *respiratory system irritation, dizziness, drowsiness, headaches, weakness, unconsciousness*
Response	P340: Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.
If feeling unwell	P312: Call a POISON CENTRE/doctor.
IF SWALLOWED	P301 (*Not a likely route of exposure under normal use*)
Symptoms	Immediate: *respiratory system irritation, nausea, headaches, weakness, unconsciousness*
Response	P310: Immediately call a POISON CENTER/doctor P331: Do NOT induce vomiting.

Section 5: Fire-Fighting Measures

Auto-ignition Temperature [a]	407 °C [765 °F]	**Flash Point** [b]	12 °C [54 °F]	**LFL [LEL]**	1.7%
				UFL [UEL] [c]	9%

In case of fire	P370
Response	P378: Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.
Combustion Products	Produces carbon oxides (CO, CO_2), halogenated compounds, and hydrogen fluorides
Fire-Fighter	Wear self-contained breathing apparatus for fire fighting
General Information	Vapors may accumulate in low-lying areas. They can cause flash fire or ignite explosively. Material may float and ignite on surface of water.

a) Auto-ignition value based on n-butyl acetate literature value
b) Closed cup value based on propan-2-ol literature value
c) LFL = Lower Flammability [or Explosion] Limit (in volume %);
UFL = Upper Flammability [or Explosion] Limit (in volume %)

Section 6: Accidental Release Measures

Personal Protection: See Section 8. Avoid breathing the mist/vapors.

Containment Remove all sources of ignition. Prevent spill from entering drains and waterways.

Cleaning Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel and place dirty towels in container.

RECOMMENDATION: Use stainless steel or carbon steel container. Avoid using plastic containers unless they are proven to be resistant to hexane isomers.

Disposal Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P262: Do not get in eye, on skin, or on clothing.

P261 + P271 + P284: Avoid breathing fume/vapors. Use only outdoors or in well ventilated area. In cases of inadequate ventilation wear respiratory protection.

P270: Do not eat, drink, or smoke when using this product.

Handling P280: Wear protective gloves/clothing/eye protection.

P264: Wash hands thoroughly after handling.

Storage P403 + P233+ P235: Keep container tightly closed. Store in a well-ventilated area. Keep cool.

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)
		ppm	ppm
Propan-2-ol	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	200 (TWA) 400 200 200 200 400	400 — 400 400 400 500
n-butyl acetate	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	150 150 150 20 150 150	Not established Not established 200 200 Not established 200

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH[2], OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database[1] of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are usually for 15 min and long term permissible exposure limits (PEL) for 8 h.

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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 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 If exposed to mist, wear respirator such as a half-mask respirator.

RECOMMENDATION: Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is 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	**Appearance**	Colorless
Odor	Alcohol like	**Odor Threshold**	Not available
pH	Not available	**Specific Gravity @23 °C**	0.80
Solubility in Water	Partially soluble	**Freezing/Melting Point**	Not available
Flash Point [a]	12 °C [54 °F]	**Vapor Pressure @ 20 °C**	Not available
Boiling Point	≥81.8 °C [≥179 °F]	**Evaporation Rate**	1.5 (ButAc = 1)
Lower [b] **Flammability Limit**	1.7%	**Upper** [b] **Flammability Limit**	9%
Auto-ignition Temperature [c]	407 °C [765 °F]	**Decomposition Temperature**	Not available
Viscosity @40 °C	Not established	**Vapor Density**	>2 (Air =1)
Partition Coefficient	Not established		

a) Closed cup value based on propan-2-ol literature value
b) Lower and Upper Explosive Limits of mixture calculated using Le Chatelier principle and component LFL and UFL limits
c) Auto-ignition value based on n-butyl acetate literature value

Section 10: Stability and Reactivity

Stabilities	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
Polymerization	Will not occur
Decomposition	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

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. May cause irritation of nose and throat and upper respiratory system.

Ingestion May be harmful if swallowed. See inhalation symptoms.

Chronic Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort.

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation	TCLo inhalation
Isopropyl alcohol	3,600 mg/kg Rat	12,800 mg/kg Rabbit	16,000 ppm 8 h Rat	35 ppm Human
n-butyl acetate	>10,768 mg/kg Rat	>17,600 mg/kg Rabbit	390 ppm 4 h Rat	200 ppm Human

Note: Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)[1] data from supplier MSDS were also consulted.

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

Sensitization (allergic reactions) None known or expected

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) No data available

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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 1500 ppm.
Teratogenicity (risk of fetus malformation)	No data available
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	No data available
Aspiration hazard	The main components are not classified as aspiration hazards.

Section 12: Ecological Information

The ecotoxicity of the mixture was estimated by the calculation method using the summation of classified ingredients. The IMDG Code criteria and the raw-material MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (http://echa.europa.eu) were used.

The 2-propanol substance is not classifiable as an environmental toxicant (with minimal LC50 of 9,640 mg/L 96 h for Pimephales promelas (fathead minnow); 5,102 mg/L 24 h Daphnia magna (water flea); >2,000 mg/L 24 h Pseudokirchneriella subcapitata (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

Chronic Ecotoxicity

Available toxicity data does not meet classification thresholds

Biodegradability

Not available

Other Effects

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

Section 13: Disposal Information

P501: 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 CFR 49 Regulations** (Parts 100 to 185). **ADR** (European Agreement Concerning the International Carriage of Dangerous Goods by Road, and **ADN** (Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways).

Sizes 5 liter and under

Limited Quantity

Sizes greater than 5 liter

UN number: UN1263
Shipping Name: PAINT RELATED MATERIAL, Flammable Liquid
Class: 3
Packing Group: II
Marine Pollutant: No

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

All sizes

UN number: UN1263
Shipping Name: PAINT RELATED MATERIAL, Flammable Liquid
Class: 3
Packing Group: II
Marine Pollutant: No

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Sea

Refer to IMDG regulations.

Sizes 5 liter and under

Limited Quantity

Sizes greater than 5 liter

UN number: UN1263
Shipping Name: PAINT RELATED MATERIAL, Flammable Liquid
Class: 3
Packing Group: II
Marine Pollutant: No

Note: Component supplier SDS transportation sections and labeling were consulted. All involved staff of shipper must be appropriately trained before involvement with the transport of this product, or work under direct supervision of a trained person.

Section 15: Regulatory Information

Canada

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.

THINNER 1 4351

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 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 5000 lb (2268 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, Sept 2, 2011 revision, USA).

This product does not contain any of the listed substances.

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

MSDS Prepared by Michel Hachey

Date of Revision 18 June 2013

Supersedes 25 October 2012

Reason for Changes: Change to GHS classification and format

References

1) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

2) ACGIH *2011 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 (2011).

Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists
EC50 Half maximal effective concentration
EL50 Half maximal effective loading
NOELR: No observable effect loading ratio
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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