

THINNER 3

4353

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Thinner 3**MSDS Code:** 4353**Related Part #:** 4353-945ML, 4353-1G, 4353-20L, 4353-200L

### Recommended Use and Restriction on Use

**Use:** Coating and paint thinner and paint remover**Uses Advised Against:** Not available

### Details of Manufacturer or Importer

#### Manufacturer

MG Chemicals  
1220 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA

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

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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 accidentsUSA or CANADA: Call CHEMTREC ☎: **1-800-424-9300****For emergencies involving dangerous goods;** Collect 24/7CANADA: Call CANUTEC ☎: **1-613-996-6666** or **\*666** on cellular phones




**Section 2: Hazards Identification**

**WHMIS Classification**



B2 – Flammable Liquid; D2A – Very Toxic Material (Teratogenicity/Embryotoxicity);  
D2B – Toxic Material (Skin/eye irritation)

**GHS Categories**

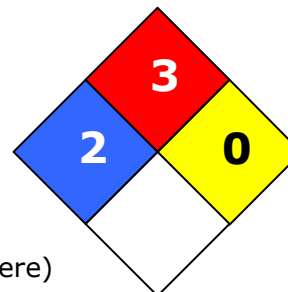
Criteria	Category	Signal Word	Pictograms
Flammable Liquid	2	Danger	
Aspiration Hazard	1	Danger	
Reproductive Toxicity	2	Warning	
Specific Target Organ Toxicity Repeated Exposure	2	Warning	
Eye Irritation	2	Warning	
Skin Irritation	2	Warning	
Specific Target Organ Toxicity Single Exposure	3	Warning	
Acute Toxicity Oral	4	Warning	
Aquatic environmental hazard Acute	2	None	

**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)

**THINNER 3**

**4353**

**Label Elements**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H225: Highly flammable liquid and vapor
	H315: Causes skin irritation H320: Causes eye irritation H302: Harmful if swallowed H336: May cause drowsiness and dizziness
	H304: May be fatal if swallowed and enters airways H361: Suspected of damaging fertility or the unborn child H373: May cause damage to organs (affected organ: central nervous system) through prolonged or repeated exposure
No Symbol Mandated	H401: Toxic to aquatic life
	<b>Precautionary Statements</b>
	P102: Keep out of reach of children. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/eye protection P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 + P271: Do not breathe fume/gas/vapors/spray. Use only outdoors or in well ventilated area. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302 + P361 + P352: IF ON SKIN: Take off immediately all contaminated clothing. Wash with plenty of water. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor. P331: Do NOT induce vomiting.

**Other Hazards**

Repeated exposure may cause skin dryness or cracking

**THINNER 3****4353****Exposure Routes and Symptoms Summary**

<b>Eyes</b>	Causes moderate eye irritation.
<b>Skin</b>	Causes moderate skin irritation.
<b>Inhalation</b>	May cause irritation of nose and throat, and may lead to cardiac arrhythmia.
<b>Ingestion</b>	Not classifiable. See inhalation symptoms.
<b>Chronic</b>	<p>Prolonged or repeated exposure may cause skin dryness and cracking, defat skin, and local redness and discomfort.</p> <p>Chronic inhalation or ingestion of large doses may cause central nervous system depression.</p> <p>Ingestion or inhalation of during pregnancy may increase the chances of development defects.</p>

**Section 3: Hazardous Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>Wt%</b>
108-88-3	toluene	65-75%
78-93-3	2-butanone <sup>a)</sup>	25-35%

a) Commonly known as MEK (methyl ethyl ketone)

**Section 4: First Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305
<b>Symptoms</b>	Immediate: <i>moderate to severe irritation, redness, pain</i>
<b>Response</b>	P351: Rinse cautiously with water for several minutes. P338: Remove contact lenses, if present and easy to do. Continue rinsing.
<b>If eye irritation persists</b>	P310: Get medical advice/attention
<b>IF ON SKIN</b>	P302
<b>Symptoms</b>	Immediate: <i>irritation, dry skin</i>
<b>Response</b>	P352: Wash with plenty of water. P362+P364: Take off contaminated clothing and wash before reuse.
<b>If skin irritation or rash occurs</b>	P310: Get medical advice/attention
<b>IF INHALED</b>	P304
<b>Symptoms</b>	Immediate: <i>irritation, headache, drowsiness, dizziness, cough, nausea, vomiting</i> Delayed: <i>breathing difficulty</i>
<b>Response</b>	P340: Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.
<b>If feeling unwell</b>	P312: Call a POISON CENTRE/doctor
<b>IF SWALLOWED</b>	P301 ( <i>Not a likely route of exposure under normal use</i> )
<b>Symptoms</b>	Immediate: <i>Irritation, burning sensation, nausea, vomiting abdominal pain, unconsciousness</i>
<b>Response</b>	P310: Immediately call a POISON CENTRE/doctor P331: Do NOT induce vomiting. P330: Rinse mouth.

**THINNER 3****4353****Section 5: Fire Fighting Measures**

<b>Autoignition</b> <sup>a)</sup>	≥505 °C	<b>Flash Point</b> <sup>b)</sup>	-1 °C	<b>LFL [LEL]</b> <sup>c)</sup>	1.6% (v)
<b>Temperature</b>	[≥941 °F]		[30 °F]	<b>UFL [UEL]</b>	11.2% (v)

**In case of fire** P370**Response** P378: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Use water spray to cool containers.**Combustion Products** Produces CO and CO<sub>2</sub>.**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) Based on the 2-butanone literature value

b) Tag closed cup 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.**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. 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** 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.

P260 + P271 + P284: Do not breath fume/gas/vapors/spray. 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.

P242 + P243: Use non-sparking tools. Take precautionary measures against static discharge.

**RECOMMENDATION:** Wear neoprene, butyl rubber, nitrile or other impervious gloves with breakthrough time greater than intended use period.

P264: Wash hands thoroughly after handling.

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

**RECOMMENDATION:** Keep in a dry and clean area, away from incompatible substances.

*Note:* The GHS codes and the GHS precaution statements are used.

**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		Short Term Exposure Limits (STEL)
		ACGIH TWA	PEL	
toluene	U.S.	20 ppm	100 ppm	150 ppm
	Canada AB		50 ppm	—
	Canada BC		20 ppm	—
	Canada ON		50 ppm	—
	Canada QC		100 ppm	150
2-butanone	U.S.	200 ppm	200 ppm	300 ppm
	Canada AB		200 ppm	300 ppm
	Canada BC		50 ppm	100 ppm
	Canada ON		200 ppm	300 ppm
	Canada QC		150 ppm	300 ppm

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>2</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>1</sup> of the Canadian Centre for Occupational Health and Safety (CCOHS) a 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 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, fluorinated rubber, or other chemically resistant gloves.

*Continued on the next page*



**THINNER 3**

**4353**

**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**

<b>Physical State</b>	Liquid	<b>Appearance</b>	Clear
<b>Odor</b>	aromatic and acetone like	<b>Odor Threshold</b>	~2.9 ppm
<b>pH</b>	Not available	<b>Specific Gravity</b>	0.83
<b>Solubility in Water</b>	Partially soluble	<b>Melting Point</b>	Not available
<b>Boiling Point</b>	82 °C [180 °F]	<b>Evaporation Rate</b>	3.77 (ButAc = 1)
<b>Flash Point <sup>a)</sup></b>	-1°C [30 °F]	<b>Vapor Pressure @ 20 °C</b>	Not available
<b>Lower Flammability Limit</b>	1.6%	<b>Upper Flammability Limit</b>	11.2%
<b>Auto-ignition Temperature</b>	≥505 °C [≥941 °F]	<b>Decomposition Temperature</b>	Not available
<b>Viscosity @40 °C</b>	<20.5 mm <sup>2</sup> /s	<b>Vapor Density</b>	4 (Air = 1)
<b>Partition Coefficient</b>	Not available		

a) Tag closed cup flash.

**THINNER 3**

**4353**

**Section 10: Stability and Reactivity**

<b>Stabilities</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Ignition sources, excessive heat, and incompatible substances. Vapors may form explosive mixture with air.
<b>Incompatibilities</b>	Nitrates, strong oxidizing agents, strong reducing agents, strong acids, 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 Entry**

Eyes, ingestion, inhalation, and skin

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>	<b>TCLo inhalation</b>
toluene	636 mg/kg Rat	12,124 mg/kg Rabbit	49 g/m <sup>3</sup> 4 h Rat	200 ppm Human
2-butanone	2,737 mg/kg Rat	6,480 mg/kg Rabbit	23,500 mg/m <sup>3</sup> 8h Rat	100 ppm 5 m Human

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

<b>Skin corrosion/irritation</b>	Causes skin irritation based on Draize tests on animals. Prolonged or repeated skin contact may cause dermatitis
<b>Serious eye damage/irritation</b>	Causes severe eye irritation based on Draize tests on animals.
<b>Sensitization</b> (allergic reactions)	No data available
<b>Carcinogenicity</b> (risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP
<b>Mutagenicity</b> (risk of heritable genetic effects)	No data available
<b>Reproductive Toxicity</b> (risk to sex functions)	Spermatogenesis was observed in male rat by inhalation of toluene.

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**THINNER 3****4353**

<b>Teratogenicity</b> (risk of fetus malformation)	Fetotoxicity is observed in animal studies for inhalation and oral exposures for toluene.
<b>STOT-single exposure</b>	Toluene and 2-butanone can affect the central nervous system by inhalation causing drowsiness or dizziness.
<b>STOT-repeated exposure</b>	Contains 70% toluene, which is a Cat 2 STOT repeated exposure hazard for the central nervous system.
<b>Aspiration hazard</b>	Aspiration toxicant mixture containing more than 10% toluene (Cat 1) and having a viscosity <20.5 mm <sup>2</sup> /s.

**Section 12: Ecological Information**

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.

Toluene is an acute category 2 environmental toxicant (with minimal LC50 of 7.63 mg/L for *Oncorhynchus mykiss* (rainbow trout); 8.9 mg/L 24 h *Daphnia magna* (water flea); 10 mg/L 24 h *Pseudokirchneriella subcapitata* (green algae)).

The 2-butanone ingredient is not classified as an environmental hazard under GHS thresholds.

**Acute Ecotoxicity**

Category 2

*GHS Code: Hazard Statement*

H401: Toxic to aquatic life

P273: Avoid release to the environment

P391: Collect spillage

**Chronic Ecotoxicity**

Not data available

**Biodegradability**

Not data available

**Other Effects**

VOC (EPA, WHIMS, and Europe) = 100% (830 g/L)

\*VOC = *Regulated Volatile Organic Content*

**Section 13: Disposal Information**

P501: Dispose of contents in accordance with all local, regional, national, and international regulations.

**THINNER 3****4353****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*Continued on the next page*

**THINNER 3****4353****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.

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**THINNER 3****4353****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 contains toluene that is listed as hazardous air pollutants.

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

This product contains toluene (CAS# 108-88-3; reportable quantity = 1000 lb) and 2-butanone (CAS# 78-93-3, reportable quantity = 5000 lb), which are subject 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.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product contains toluene, which is listed as reproductively toxic.

**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**

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 Issue** 05 May 2013

**Supersedes** 01 May 2013

**Reason for Changes:** Correct wrong use of cancer hazard statements in Section 2.

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**THINNER 3****4353****Reference**

- 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  
GHS: Globally Harmonized System of Classification of Labeling of Chemicals  
LC50 Lethal Concentration 50%  
LCLo Lowest published lethal concentration  
LD50 Lethal Dose 50%  
N/A Not Applicable  
N/E Not Estimated  
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](http://www.mgchemicals.com).

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