

THINNER 4

4354

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

Product Name: Thinner 4

SDS Code: 4354

Related Part # 4354-1L, 4354-4L, 4354-20L, 4354-200L

### Recommended Use and Restriction on Use

Use: Coating and paint thinner and remover

Uses Advised Against: Not available

### Details of Manufacturer or Importer

**Manufacturer**

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

MG Chemicals (Head Office)  
9347-193 Street  
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### 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: Hazard(s) Identification**
**Classification of Hazardous Chemical**
**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Aspiration Hazard	1	Danger	Health
Specific target organ toxicity Repeated exposure	2	Warning	Health
Carcinogenicity	2	Warning	Health
Flammable liquid	3	Warning	Flame
Skin Irritation	2	Warning	Exclamation
Specific target organ toxicity Single exposure	3	Warning	Exclamation
Acute Toxicity Dermal	4	Warning	Exclamation
Acute Toxicity Inhalation	4	Warning	Exclamation
Eye irritation	2B	Warning	<i>none</i>
Hazardous to the Aquatic Environment Acute	2	<i>none</i>	<i>none</i>

*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories do not allow comparisons between classes.

**Label Elements**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H304: May be fatal if swallowed and enters airways H373: May cause damage to inner ear through prolonged or repeated exposure H351: Suspected of causing cancer
	H312 + H332: Harmful in contact with skin or if inhaled H315: Causes skin irritation H336: May cause dizziness or drowsiness
	H226: Flammable liquid and vapor

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<b>Pictograms</b>	<b>Hazard Statements</b>
No Symbol Mandated	H401: Toxic to aquatic life H320: Causes eye irritation
<b>Prevention</b>	<b>Precautionary Statements</b>
P201, P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P240	Ground and bond container and receiving equipment.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P241, P243	Use explosion-proof electrical/ventilating/ lighting equipment. Take precautionary measures against static discharge.
P260, P271	Do not breathe mist/vapors/spray/fumes. Use only outdoors or in well ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
P273	Avoid release to the environment.
<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.
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
P304 + P340, P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
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/attention.
P303 + P361 + P364 + P352 + P312	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water/shower. Call a POISON CENTER/doctor if you feel unwell.
P333 + P313	If skin irritation occurs: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.

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Storage	Precautionary Statements
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

**Other Hazards**

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Defats skin	Repeated exposure may cause skin dryness or cracking.	<i>None</i>	<i>None</i>

**Section 3: Composition/Information on Ingredients**

CAS #	Chemical Name	% (weight)
1330-20-7	xylene (mixed isomers)	70-80%
100-41-4	ethylbenzene	20-30%

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF SWALLOWED</b>	P301 + P310, P330, P331
<b>Immediate Symptoms</b>	<i>abdominal pain, burning sensation, nausea, headaches, dizziness, drowsiness, vomiting</i>
<b>Response</b>	Immediately call a POISON CENTRE/doctor. Rinse mouth. Do NOT induce vomiting.
<b>IF ON SKIN (or hair)</b>	P303 + P361 + P364, P352, P333 + P313
<b>Immediate Symptoms</b>	<i>irritation, dry skin, redness</i>
<b>Response</b>	Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water/shower. If you feel unwell: Call a POISON CENTER/doctor. If skin irritation occurs: Get medical advice/attention.

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<b>IF INHALED</b>	P304 + P340, P312, P308 + P313
<b>Immediate Symptoms</b>	<i>cough, irritation of the respiratory track, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and death)</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.  If feeling unwell: Call a POISON CENTRE/doctor.  If exposed or concerned: Get medical advice/attention.
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>irritation, redness, pain</i>
<b>Response</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical advice/attention.

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	<b>Small Fires:</b> Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.  <b>Large Fires:</b> Use water spray or chemical foam to extinguish. Use water spray to cool containers.
<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. The liquid may float on water and ignite.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), smoke
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turnout gear.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection equipment in Section 8.
<b>Precautions for Response</b>	Remove or keep away all sources of ignition or extreme heat. Do not breathe the mist/vapors/spray/fumes.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways.

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<b>Containment Methods</b>	Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning Methods</b>	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.  <b>RECOMMENDATION:</b> Use a grounded stainless steel or carbon steel container or a solvent resistant plastic 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.  Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  For metal containers, ground/bond container and receiving equipment.  Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.  Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source.  Do not breathe vapors/mist/spray. Use only outdoors or in a well-ventilated area.  Avoid release to the environment.
<b>Handling</b>	Wear protective gloves/protective clothing/eye protection.  Wash hands thoroughly after handling.
<b>Storage</b>	Keep container tightly closed. 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)
xylene (mixed isomers)	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	150 ppm
	Canada AB	500 ppm	150 ppm
	Canada BC	100 ppm	150 ppm
	Canada ON	100 ppm	150 ppm
	Canada QC	100 ppm	150 ppm
ethylbenzene	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	125 ppm
	Canada AB	150 ppm	200 ppm
	Canada BC	20 ppm	Not established
	Canada ON	100 ppm	125 ppm
	Canada QC	100 ppm	125 ppm

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA, and Canadian provinces exposure limits were consulted. Limits from the 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:** Ensure that glasses have side shields for lateral protection.

**Skin Protection** Use of protective gloves chemically resistant gloves.  
For incidental exposure, you may use nitrile gloves.  
For prolonged exposure, use polyvinyl alcohol (PVA) or Viton gloves and aprons.

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**Respiratory Protection** For over-exposures up to 10 x OEL of vapors, 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.

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

**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>	1%
<b>Appearance</b>	Colorless	<b>Upper Flammability Limit</b>	6.6%
<b>Odor</b>	Aromatic	<b>Vapor Pressure @20 °C</b>	1.06 kPa [7.95 mmHg]
<b>Odor Threshold</b>	≥0.324 ppm	<b>Vapor Density</b>	3.66 (Air = 1)
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	0.87
<b>Freezing/Melting Point</b>	-47 °C [-53 °F]	<b>Solubility in Water</b>	Negligible
<b>Boiling Point</b>	137 °C [279 °F]	<b>Partition Coefficient</b>	3.16
<b>Flash Point <sup>a)</sup></b>	27 °C [81 °F]	<b>Auto-ignition Temperature</b>	527 °C [981 °F]
<b>Evaporation Rate</b>	0.86 (ButAc = 1)	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not available	<b>Viscosity @40 °C</b>	<20.5 mm <sup>2</sup> /s

a) Based on Tag closed cup value



**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures.
<b>Conditions to Avoid</b>	Ignition sources, excessive heat, and incompatible substances.
<b>Incompatibilities</b>	Strong oxidizing agents, strong acids
<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 Exposure**

Eye contact, Ingestion, Inhalation, and Skin contact

**Symptoms Summary**

<b>Eyes</b>	Causes moderate irritation, redness, pain.
<b>Skin</b>	Causes moderate skin irritation, dry skin, and redness.
<b>Inhalation</b>	May cause cough, irritation of the respiratory track, dizziness, drowsiness, headaches, <i>(in extreme exposure cases: unconsciousness and death)</i> .
<b>Ingestion</b>	May cause burning sensation, abdominal pain, nausea, vomiting. (See also inhalation symptoms.)
<b>Chronic</b>	Prolonged or repeated exposure may cause skin dryness and cracking, defat skin, and local redness, discomfort, and allergic reactions.  Chronic inhalation or ingestion of large doses may cause central nervous system depression, liver effects, cardiac sensitization, and kidney damage.

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**Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation	TCLo inhalation
xylene	4 350 mg/kg Rat	>1 700 mg/kg Rabbit	5 000 ppm 4 h Rat	200 ppm Human
ethylbenzene	3 500 mg/kg Rat	>5 000 mg/kg Rabbit	35 500 mg/m <sup>3</sup> 2h Mouse	100 ppm 8h Human

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

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Causes skin irritation based on Draize tests on animals.
<b>Serious eye damage/irritation</b>	Causes mild irritation. Studies on rabbits suggest that conjunctiva (redness) effect that is fully reversible in seven days.
<b>Sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b> (risk of cancer)	<p><b>Ethylbenzene [100-41-4]</b></p> <p>IARC Group 2B: Possibly carcinogenic to humans</p> <p>ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans</p> <p>CA Prop 65: Listed as a carcinogen</p> <p>NTP: Not listed</p>
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Xylene isomers can affect the central nervous system by inhalation causing drowsiness or dizziness. They are a respiratory system irritant.

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**THINNER 4****4354****STOT-repeated exposure**

Prolonged or repeated over-exposure to p-xylene and ethylbenzene and noise can lead to hearing loss (cochlear impairment) according to rat inhalation studies.

At high levels of exposures, ethylbenzene causes damage of the liver.

**Aspiration hazard**

Cat 1 Aspiration hazard components with kinematic viscosity of  $\leq 20.5 \text{ mm}^2/\text{s}$ .

**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.

Xylene isomers mixture is acutely toxic to the aquatic environment of category 2 with a minimal LC50 96 h of 2.5 mg/L for oncorhynchus mykiss (rainbow trout).

Ethylbenzene is an acute category 2 environmental toxicant with minimal LC50 of 4.2 mg/L 96 h for oncorhynchus mykiss (rainbow trout); EC50 2.9 mg/L 48 h daphnia magna (water flea).

**Acute Ecotoxicity**

Category 2

Toxic to aquatic life

Avoid release to the environment.

**Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds.

**Biodegradability**

Readily biodegradable. Product is volatile and only slightly soluble in water. In water and soil, it is biodegradable under both aerobic and anaerobic condition. Photooxidation in the atmosphere are typically in the range of 0.5 to 1.5 days.

**Other Effects**

Regulated Volatile Organic Compound (VOC) content = 100% (870 g/L)

**Section 13: Disposal Information**

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

**Section 14: Transport Information**

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations); USA 49CFR Regulations (Parts 100 to 185).

Sizes 5 L and under

Limited Quantity



Sizes greater than 5 L

UN number: UN1307  
 Shipping Name: XYLENES  
 Class: 3  
 Packing Group: III  
 Marine Pollutant: No



**Air**

Refer to ICAO-IATA Dangerous Goods Regulations.

All sizes

UN number: UN1307  
 Shipping Name: XYLENES  
 Class: 3  
 Packing Group: III  
 Marine Pollutant: No



**Sea**

Refer to IMDG regulations.

Sizes 5 L and under

Limited Quantity



Sizes greater than 5 L

UN number: UN1307  
 Shipping Name: XYLENES  
 Class: 3  
 Packing Group: III  
 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.

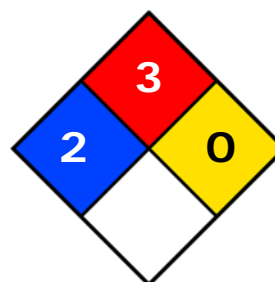
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	* 2
<b>FLAMMABILITY:</b>	3
<b>PHYSICAL HAZARD:</b>	0
<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 contains ethylbenzene and xylene that are listed as hazardous air pollutants.

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

This product contains ethylbenzene (CAS# 100-41-4; reportable quantity = 1 000 lb) and xylene (CAS# 1330-20-7, reportable quantity = 100 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.

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

This product contains ethylbenzene (CAS # 100-41-4), which is listed as a carcinogen.

**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, or PBDE's, 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** Michel Hachey  
**Date of Revision** 01 April 2017  
**Supersedes** 17 February 2017

**Reason for Changes:** Modified Part numbers in section 1.

**References**

1) ACGIH 2013 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 (2013).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®), MDL Information Systems, Inc.

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**THINNER 4****4354****Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
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](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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