

ETHYL LACTATE

9630-LIQUID

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Name:** Ethyl Lactate**SDS Code:** 9630-Liquid**Related Part #** 9630-945ML, 9630-3.78L

### Recommended Use and Restriction on Use

**Use:** Solvent, adhesive cleaner**Uses Advised Against:** Not available

### Details of Manufacturer or Importer

**Manufacturer**MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADAMG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA**☎** +1-800-340-0772**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 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

**ETHYL LACTATE**
**9630-LIQUID**
**Section 2: Hazard(s) Identification**
**Classification of Hazardous Chemical**
**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Eye Damage	1	Danger	Corrosion
Flammable liquid	3	Warning	Flame
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**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H318: Causes severe eye damage
	H226: Flammable liquid and vapor
	H335: May cause respiratory irritation

*Section continued on the next page*

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<b>Prevention</b>	<b>Precautionary Statements</b>
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection/protective clothing/face protection.
<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.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
<b>Storage</b>	<b>Precautionary Statements</b>
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents/container in accordance to local/regional/international regulations.

**Hazards Not Otherwise Classified**

<b>Other Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
None	None	None	None

**ETHYL LACTATE**
**9630-LIQUID**
**Section 3: Composition/Information on Ingredients**

CAS #	Chemical Name	%(weight)
97-64-3	ethyl lactate <sup>a)</sup>	>99%

a) Commonly known as ethyl 2-hydroxypropionate

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P310
<b>Immediate Symptoms</b>	<i>redness, irritation, pain</i>
<b>Response</b>	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  Immediately call a POISON CENTER/doctor.
<b>IF ON SKIN (or hair)</b>	P303 + P361 + P353
<b>Immediate Symptoms</b>	<i>mild skin irritant</i>
<b>Response</b>	Take off immediately all contaminated clothing. Rinse skin with water or shower.
<b>IF INHALED</b>	P304 + P340, P312
<b>Immediate Symptoms</b>	<i>respiratory irritation</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing.  Call a POISON CENTRE/doctor if you feel unwell.
<b>IF SWALLOWED</b>	P301 + P330 + P331
<b>Immediate Symptoms</b>	<i>nausea, vomiting, diarrhea (See inhalation symptoms)</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting.

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**Section 5: Fire-Fighting Measures**

- Extinguishing Media** In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray 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.
- Combustion Products** Produces carbon oxides (CO, CO<sub>2</sub>).
- Fire-Fighter** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

- Personal Protection** See personal protection equipment in Section 8.
- Precautions for Response** Avoid breathing mist/spray/vapors. Remove or keep away all sources of ignition or extreme heat.
- Environmental Precautions** Prevent spill from entering drains and waterways.
- Containment** Contain with inert absorbent (such as soil, sand, vermiculite).
- Cleaning** 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 or a solvent resistant plastic container.
- Disposal** Dispose of spill waste according to Section 13.

**ETHYL LACTATE****9630-LIQUID****Section 7: Handling and Storage****Prevention**

Keep out of reach of children.

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

Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep container tightly closed.

**Handling**

Wear protective gloves/clothing/eye protection.

Wash hands thoroughly after handling.

**Storage**

Store in well-ventilated place. Keep cool.

Store locked up.

**Section 8: Exposure Controls/Personal Protection****Substances with Occupational Exposure Limit Values**

Contains no substances with occupational exposure limits.

*Note:* The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by 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**

General ventilation is adequate for normal use; keep overall exposure as low as possible.

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**ETHYL LACTATE****9630-LIQUID****Personal Protective Equipment****Eye protection**

Wear appropriate protective eyeglasses or chemical safety goggles.

**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).

**Skin Protection**

For likely contacts, use of protective butyl rubber, neoprene, or other chemically resistant gloves.

For incidental contacts, use nitrile, polyvinyl alcohol (PVA) or other chemically resistant gloves.

**Respiratory Protection**

If exposed to high levels of mist/vapors, wear respirator such as a half-mask respirator with organic vapor cartridge.

**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.

**ETHYL LACTATE**
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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	1.5%
<b>Appearance</b>	Colorless	<b>Upper Flammability Limit</b>	10.6%
<b>Odor</b>	Fruity	<b>Vapor Pressure @20 °C</b>	5 hPa [3.8 mmHg]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	4.08 (Air=1)
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	1.03
<b>Freezing/Melting Point <sup>a)</sup></b>	-26 °C [-15 °F]	<b>Solubility in Water</b>	Miscible
<b>Boiling Point <sup>a)</sup></b>	≥154 °C [≥309 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point <sup>a)</sup></b>	48 °C [118 °F]	<b>Auto-ignition Temperature</b>	≥400 °C [≥752 °F]
<b>Evaporation Rate</b>	Not available	<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) Literature 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
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**ETHYL LACTATE**
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**Section 11: Toxicological Information**
**Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	Causes redness, irritation, or pain.
<b>Skin</b>	May cause mild skin irritation.
<b>Inhalation</b>	May cause cough and respiratory irritation.
<b>Ingestion</b>	May cause nausea, vomiting, or diarrhea (see also inhalation symptoms).
<b>Chronic</b>	Not available

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
ethyl lactate	8 200 mg/kg Rat	>5 000 mg/kg Rabbit	Not available

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

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Causes serious eye damage in accordance with Annex VI harmonized classification.
<b>Sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b> (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
<b>Mutagenicity</b> (risk of heritable genetic effects)	Not classifiable due to lack of data
<b>Reproductive Toxicity</b> (risk to sex functions)	Not classifiable due to lack of data
<b>Teratogenicity</b> (risk of fetus malformation)	Not classifiable due to lack of data

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<b>STOT-single exposure</b>	Ethyl lactate may cause irritation of the respiratory tract.
<b>STOT-repeated exposure</b>	Not classifiable due to lack of data
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

**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.

Ethyl lactate has minimal LC50 96 h of 320 mg/L for *Danio rerio* (zebra fish); EC50 48 h of 560 mg/L *Daphnia magna* (water flea).

**Acute Ecotoxicity**

Available toxicity data does not meet classification thresholds.

**Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds.

**Biodegradability**

No data available

**Other Effects**

Actual VOC (EPA, WHMIS, and Europe) = 100% (1 030 g/L)

\*VOC = *Volatile Organic Compound*

**Section 13: Disposal Information**

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

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**Section 14: Transport Information**

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

Sizes 5 L and under  
**Limited Quantity**



Sizes greater than 5 L  
**UN number:** UN1192  
**Shipping Name:** ETHYL LACTATE  
**Class:** 3  
**Packing Group:** III  
**Marine Pollutant:** No



**Air**

**Refer to ICAO-IATA Dangerous Goods Regulations.**

Sizes 5 L and under

**Limited Quantity**  
Total Net QTY per  
Package 10.0 L



Sizes greater than 5 L (passenger),  
60 L (cargo)

**UN number:** UN1192  
**Shipping Name:** ETHYL LACTATE  
**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:** UN1192  
**Shipping Name:** ETHYL LACTATE  
**Class:** 3  
**Packing Group:** III  
**Marine Pollutant:** No



**Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.**

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**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.

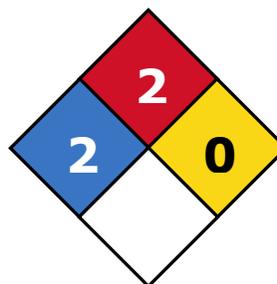
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	* <b>2</b>
<b>FLAMMABILITY:</b>	<b>2</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)

**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 does not contain ingredients that 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, USA).

This product does not contain any substances known to be listed in California.

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**ETHYL LACTATE****9630-LIQUID****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**

<b>SDS Prepared by</b>	Michel Hachey
<b>Date of Revision</b>	12 March 2020
<b>Supersedes</b>	15 June 2016
<b>Reason for Changes:</b>	Update to the emergency phone number information.

**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.

**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

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**ETHYL LACTATE****9630-LIQUID**

**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)

**Mailing Addresses** *Manufacturing & Support*  
1210 Corporate Drive  
Burlington, Ontario, Canada  
L7L 5R6

*Head Office*  
9347-193rd Street  
Surrey, British Columbia, Canada  
V4N 4E7

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