

ETHYL ACETATE

SECTION 1. IDENTIFICATION

Product Identifier	ETHYL ACETATE
Other Means of Identification	Ethyl Ethanoate, Ethyl Acetate NON-UV, Ethyl Acetate - 255
Recommended Use	Solvent.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	Caledon Laboratories Ltd, 40 Armstrong Avenue, Georgetown, Ontario, L7G-4R9, (905) 877-0101, www.caledonlabs.com
Emergency Phone No.	CANUTEC, (613) 996-6666
SDS No.	0105

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable liquid - Category 2; Acute toxicity (Inhalation) - Category 5; Eye irritation - Category 2A; Specific target organ toxicity (single exposure) - Category 3

Label Elements



Signal Word:

Danger

Hazard Statement(s):

Highly flammable liquid and vapour.

Causes serious eye irritation.

May be harmful if inhaled.

May cause drowsiness or dizziness.

Precautionary Statement(s):

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Ethyl acetate	141-78-6	100	EU EINECS/ELINCS Number: 205-500-4

SECTION 4. FIRST-AID MEASURES

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First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Ne pas faire vomir. Obtenir des soins médicaux immédiats.

Most Important Symptoms and Effects, Acute and Delayed

May irritate and cause redness and pain.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, nervous system.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Highly flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. May travel a considerable distance to a source of ignition and flash back to a leak or open container.

Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources. Use grounded, explosion-proof equipment. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: flush spill area. Dike and recover contaminated water for

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appropriate disposal.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid breathing in this product. Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Wash hands thoroughly after handling this material. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs.

Conditions for Safe Storage

Store in an area that is: dry, well-ventilated.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Ethyl acetate	400 ppm		Not established			

Appropriate Engineering Controls

General ventilation is usually adequate. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Exhaust directly to the outside, taking any necessary precautions for environmental protection. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.
Polyvinyl alcohol, Barrier® (PE/PA/PE), Silver Shield/4H® (PE/EVAL/PE).

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Colourless.
Odour	Fruity
Odour Threshold	3.9 - 50 ppm
pH	Not available
Melting Point/Freezing Point	-83.6 °C (-118.5 °F) (melting); -118.5 °F (-83.6 °C) (freezing)
Initial Boiling Point/Range	77 °C (171 °F)
Flash Point	-4 °C (25 °F)
Evaporation Rate	3.9
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	9.73 kPa at 20 °C
Vapour Density (air = 1)	3.04

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Relative Density (water = 1)	0.90 at 20 °C
Solubility	7.7 g/100 mL (Moderately soluble) in water; Soluble in all proportions in alcohols (e.g. ethanol).
Partition Coefficient, n-Octanol/Water (Log Kow)	0.73
Auto-ignition Temperature	427 °C (801 °F)
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); 0.45 mPa.s at 20 °C (dynamic)
Other Information	
Molecular Formula	CH ₃ COOCH ₂ CH ₃
Molecular Weight	88.11

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid).

Not corrosive to metals.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ethyl acetate	10600 ppm (mouse) (4-hour exposure)	10200 ppm (female rat)	> 18000 ppm (rabbit)

Skin Corrosion/Irritation

Not a skin irritant.

Serious Eye Damage/Irritation

Animal tests show very mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Absorption

Not harmful based on human experience and animal tests.

Ingestion

Not harmful based on animal tests.

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Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not known to be a skin sensitizer.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity**Development of Offspring**

No information was located.

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Not known to be a mutagen.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

Ecotoxicity

No information was located.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Ethyl acetate	230 mg/L (Pimephales promelas (fathead minnow); 96-hour)	165 mg/L (Daphnia magna (water flea); 48-hour)	5600 mg/L (48-hour)	

Persistence and Degradability

Degrades rapidly based on quantitative tests.

Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate based on the fish bioconcentration factor (BCF).

Mobility in Soil

If released into the environment, this product is expected to move rapidly through the soil, based on physical and chemical properties.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Methods**

Recycle and reuse product, if possible. Burn in an approved incinerator according to federal, provincial/state, and local regulations. Empty containers retain product residue. Follow label warnings even if container appears to be empty.

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SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1173	Ethyl acetate	3	II
US DOT	1173	Ethyl acetate	3	II
IMO (Marine)	1173	Ethyl acetate	3	II
IATA (Air)	1173	Ethyl acetate	3	II

Environmental Hazards Not applicable

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification



Class B2



Class D2B

B2 - Flammable Liquid; D2B - Toxic (Eye irritant)

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

CEPA - National Pollutant Release Inventory (NPRI)

Part 5.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 1 Flammability - 3 Instability - 0

SDS Prepared By Caledon Laboratories Ltd

Date of Preparation July 13, 2016

Date of Last Revision April 27, 2017

Revision Indicators The following SDS content was changed on April 27, 2017:
Other Means of Identification.

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
Supplier Safety Data Sheets.

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