



SAFETY DATA SHEET

SDS00565
ETHYL ACETATE 99%

Preparation Date: 28/Jun/2017

Version: 1

1. IDENTIFICATION

Product identifier

Product Name ETHYL ACETATE 99%

Other means of identification

Product Code(s) SDS00565

Synonyms Acetic Acid, Ethyl Ester.

Recommended use of the chemical and restrictions on use

Recommended Use Solvent Chemical intermediate

Restricted Uses No information available

Initial Supplier Identifier

Univar Canada Ltd.
9800 Van Horne Way
Richmond, BC V6X 1W5
Telephone: 1-866-686-4827

Emergency telephone number

24 Hour Emergency Phone Number (CANUTEC): 1-888-226-8832 (1-888-CAN-UTEC)

2. HAZARD IDENTIFICATION

Hazardous Classification of the substance or mixture

Flammable liquids	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

Label elements

Hazard pictograms



Signal Word: Danger

Hazard statements

Highly flammable liquid and vapor
 Causes serious eye irritation
 May cause drowsiness or dizziness

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ ventilating / lighting/ equipment
 Use non-sparking tools
 Take precautionary measures against static discharge

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

Unknown acute toxicity No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	Weight-%	Synonyms
Ethyl Acetate	141-78-6	90 - 100%	Ethyl Acetate

4. FIRST AID

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact

Wash skin with soap and water.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed:

May cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain, coughing, headache, nausea, vomiting, dizziness and drowsiness. Symptoms of exposure may include: eye irritation, burning sensation, pain, watering and/or change of vision. Symptoms of exposure may include: crusting, scaling, weeping and itching of skin. Vapor and/or liquid causes irritation. Repeated or prolonged contact may cause irritation. Symptoms of exposure may include: central nervous system depression with nausea, headache and mental sluggishness. Practically non toxic if swallowed.

Indication of any immediate medical attention and special treatment needed:

Note to physicians

Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use DRY chemicals, CO₂, alcohol foam or water spray. Do not use a solid stream of water; this may cause spattering and spread the fire.

Specific hazards arising from the substance or mixture

Use water spray to cool fire-exposed containers and structures. Flammable liquid. Vapors may travel along ground and flashback along vapor trail may occur. USE WATER WITH CAUTION. Product will float and can be reignited on surface of water. Prevent build up of vapors or gases to explosive concentrations.

Hazardous combustion products

Carbon monoxide. Carbon dioxide.

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection

equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

Environmental precautions

See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

7. HANDLING AND STORAGE

Precautions for safe handling

For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. Flammable.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Place away from incompatible materials. Store in a cool, dry, well ventilated area, away from heat and ignition sources. Handle and open container with care.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	Alberta OEL	British Columbia OEL	Ontario	Quebec OEL	Exposure Limit - ACGIH	Immediately Dangerous to Life or Health - IDLH
Ethyl Acetate 141-78-6	TWA: 400 ppm TWA: 1440 mg/m ³	TWA: 150 ppm	TWA: 400 ppm	TWA: 400 ppm TWA: 1440 mg/m ³	400 ppm TLV-TWA	2000 ppm

Consult local authorities for recommended exposure limits

Appropriate engineering controls

Engineering controls

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Good general ventilation (typically 10 air changes per hour) should be used.

Individual protection measures, such as personal protective equipment**Eye/face protection**

If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection

Appropriate chemical resistant gloves should be worn.

Skin and body protection

Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Respiratory protection

If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties**Appearance**

Physical state	Liquid
Color	Colorless
Odor	Sweet Ester
Odor threshold	No information available

PROPERTIES	Values	Remarks • Method
pH	No data available	none known
Melting point / freezing point	-83 °C / -117 °F	
Initial boiling point/boiling range	78 °C / 172 °F	none known
Flash point	-4 °C / 25 °F	Tag Closed Cup
Evaporation rate	4.1	
Flammability (solid, gas)	No data available	none known
Flammability Limit in Air		none known
Upper flammability limit:	12.8	
Lower flammability limit:	2	
Vapor pressure	98 hPa @ 20 °C (74 mmHg)	
Relative vapor density	3	
Specific Gravity	0.902 @ 20°C	
Water solubility	Moderate solubility in water	
Solubility in other solvents	No data available	
Partition coefficient	No data available	none known
Autoignition temperature	427 °C / 801 °F	
Decomposition temperature	No data available	none known
Kinematic viscosity	No data available	none known
Dynamic viscosity	No data available	none known
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Molecular weight	88.11	
VOC Percentage Volatility	No information available	
Liquid Density	No information available	

Bulk density No information available

10. STABILITY AND REACTIVITY

Reactivity/Chemical Stability

Stable under normal conditions

Possibility of hazardous reactions

No additional remark.

Hazardous polymerization

Will not occur.

Conditions to avoid

Keep away from heat, sparks and flame.

Incompatible materials

Amines. Strong oxidizing agents. Strong acids and bases.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

May cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain, coughing, headache, nausea, vomiting, dizziness and drowsiness.

Eye contact

Vapor and/or liquid causes irritation. Symptoms of exposure may include: eye irritation, burning sensation, pain, watering and/or change of vision.

Skin contact

Symptoms of exposure may include: crusting, scaling, weeping and itching of skin. Repeated or prolonged contact may cause irritation.

Ingestion

Symptoms of exposure may include: central nervous system depression with nausea, headache and mental sluggishness. Practically non toxic if swallowed.

Information on toxicological effects

Symptoms

Overexposure (prolonged or repeated exposure) may cause: Central nervous system depression, irritation of the respiratory tract, drying of the skin and local irritation at the site of exposure.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	5,620.00 mg/kg
ATEmix (dermal)	18,018.00 mg/kg

Unknown acute toxicity No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Acetate 141-78-6	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit)	Not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Symptoms of exposure may include: crusting, scaling, weeping and itching of skin. Repeated or prolonged contact may cause irritation.

Serious eye damage/eye irritation

Symptoms of exposure may include: eye irritation, burning sensation, pain, watering and/or change of vision. Vapor and/or liquid causes irritation.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Acetate 141-78-6	Not available	Not available	Not available	Not available

Reproductive toxicity

No information available.

Specific target organ systemic toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ systemic toxicity - repeated exposure

No information available.

Aspiration hazard

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Fish Species Data	Toxicity to microorganisms	Crustacea
Ethyl Acetate 141-78-6	Not available	220 - 250 mg/L LC50 (Pimephales promelas) 96 h flow-through 352 - 500 mg/L LC50 (Oncorhynchus mykiss) 96 h semi-static 484 mg/L LC50 (Oncorhynchus mykiss) 96 h flow-through	Not available	EC50: =560mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulation No information available.

Component Information

Chemical Name	Partition coefficient
Ethyl Acetate 141-78-6	0.6

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

14. TRANSPORT INFORMATION

TDG (Canada):

UN Number	UN1173
Shipping name	Ethyl Acetate
Class	3
Packing Group	II
Marine pollutant	Not available.

DOT (U.S.)

UN Number	UN1173
Shipping name	Ethyl Acetate
Class	3
Packing Group	II
Marine pollutant	Not available

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Regulatory Rules

Chemical Name	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Ethyl Acetate - 141-78-6	Not Listed	Listed	Not Listed

International Inventories

TSCA	Complies
DSL/NDSL	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA:	Health hazards 2	Flammability 1	Instability 0	Physical and chemical properties - Personal protection X
HMIS Health Rating:	Health hazards 2	Flammability 1	Physical hazards 0	

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Prepared By: The Environment, Health and Safety Department of Univar Canada Ltd.

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End of Safety Data Sheet