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Section I. Product Identification and Uses			
Product name	ETHYL PROPIONATE	CI#	Not available.
Chemical formula	C2H5CO2C2H5	CAS#	105-37-3
Synonyms	Propionic ether, Propionic acid ethyl ether, AC-4377, 40342	Code	AC-4377
Supplier	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Formula weight	102.14
		Supersedes	
Material uses	For laboratory use only.		

Name	CAS #	%	TLV
1) ETHYL PROPIONATE	105-37-3	99	Not established by ACGIH

ETHYL PROPIONATE:
 ORAL (LD50): Acute: 8732 mg/kg (Rat).
 INTRAPERITONEAL (LD50): Acute: 1200 mg/kg (Rat). 1158 mg/kg (Mouse).

Section III. Physical Data

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Physical state and appearance / Odor	Colorless liquid. Pineapple-like odor.
pH (1% soln/water)	Not available.
Odor threshold	Not available.
Percent volatile	100% (V/V)
Freezing point	-73°C
Boiling point	99°C
Specific gravity	0.891 (Water = 1)
Vapor density	3.52 (Air = 1)
Vapor pressure	40 mm of Hg (@ 27.2°C)
Water/oil dist. coeff.	Not available.
Evaporation rate	Not available.
Solubility	Partially soluble in cold water.

Section IV. Fire and Explosion Data

Flash point	CLOSED CUP: 12°C
Flammable limits	LOWER: 1.8% UPPER: 11%
Auto-ignition temperature	440°C
Fire degradation products	Oxides of carbon (CO, CO ₂).
Fire extinguishing procedures	Use DRY chemical, carbon dioxide, or alcohol-resistant foam. Water may be ineffective to extinguish fires. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode. Cool containing vessels with flooding quantities of water.
Fire and Explosion Hazards	Flammable liquid. Vapor may travel considerable distance to source of ignition and flash back, eliminate all sources of ignition. Vapor forms explosive mixture with air. Container explosion may occur under fire conditions or when heated. Contact with oxidizers may cause fire and/or explosion. This material may produce a floating fire hazard. Expected to be sensitive to static discharge. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.

Section V. Toxicological Properties

Routes of entry	Ingestion and inhalation. Eye contact. Skin contact.
Effects of Acute Exposure	Harmful by inhalation, in contact with skin and if swallowed.
Eye	Causes irritation with redness, pain, and conjunctivitis.
Skin	Causes skin irritation. May cause defatting, drying and cracking of the skin. Prolonged and repeated contact may lead to dermatitis. May be absorbed through the skin. IRRITATION: SKIN-RABBIT 500 mg/24H MODERATE.
Inhalation	Material is irritating to mucous membranes and upper respiratory tract. Prolonged exposure can cause coughing, chest pains, difficulty in breathing, gastrointestinal disturbances, narcotic effect.
Ingestion	Harmful if swallowed. Causes gastrointestinal irritation. Exposure may cause nausea, headache, vomiting, dizziness, acidosis, gastrointestinal disturbances.

Section V. Toxicological Properties

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Effects of Chronic Overexposure

Repeated or prolonged skin contact may cause dermatitis. Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section VI. First Aid Measures

Eye contact

Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Call a physician.

Skin contact

Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing.

Inhalation

Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Call a physician.

Ingestion

If conscious, wash out mouth with water. Never give anything by mouth to an unconscious or convulsing person. Call a physician.

Section VII. Reactivity Data

Stability

Unstable. Moisture sensitive! Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.

Hazardous decomp. products

Not available.

Incompatibility

Oxidizing agents, acids, bases, heat, moisture.

Reaction Products

Slowly hydrolyzed by moisture with the formation of ethanol and propionic acid. Hazardous polymerization will not occur.

Section VIII. Preventive Measures

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Protective Clothing in case of spill and leak Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Spill and leak Evacuate the area. Eliminate all sources of ignition. Cover with an activated carbon adsorbent. Place in a suitable container and mark for disposal. Use non-sparking tools. Transport outdoors. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch damaged container or spilled material. Runoff to sewer may create fire or explosion hazard.

Waste disposal Burn in a chemical incinerator equipped with an after burner and scrubber. According to all applicable regulations. May be harmful to aquatic life. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Storage and Handling Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe gas/fumes/vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from direct sunlight or strong incandescent light. Protect from moisture. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Take precautionary measures against electrostatic discharges. Ground the container while dispensing. Ground all equipment containing material. Use explosion proof equipment. Use non-sparking tools. Watch for accumulation in low confined areas. Empty containers may contain a hazardous residue. Handle and open container with care. Take off immediately all contaminated clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible.).

Section IX. Protective Measures

Protective clothing Splash goggles. Impervious rubber gloves, apron, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. A OSHA/MSHA jointly approved respirator is advised in the absence of proper environmental controls. For emergency situations, a self-contained respirator is recommended (NIOSH-approved). Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

Engineering controls Use in a chemical fume hood. Use explosion-proof ventilation equipment. Do not use in unventilated spaces.

Section X. Other Information

Special Precautions or comments Flammable liquid! Harmful liquid! Irritant! Do not breathe vapor. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. Keep away from heat, sparks and flame. Moisture sensitive! To the best of our knowledge, the chemical, physical and toxicity of this substance has not been fully investigated. Handle and open container with care. Container should be opened only by a technically qualified person.
RTECS NO: UF3675000 (Ethyl propionate).



NFPA

Prepared by MSDS Department/Département de F.S..

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