

Lachine (Montreal), Que H8R 1A3

Material Safety Data Sheet

EMERGENCY NUMBERS:

(USA) CHEMTREC: 1(800) 424-9300 (24hrs) (CAN) CANUTEC: 1(613) 996-6666 (24hrs) (USA) Anachemia: 1(518) 297-4444 (CAN) Anachemia: 1(514) 489-5711

WHMIS	Protective Clothing	TDG Road/Rail
WHMIS CLASS: B-2		TDG CLASS: 3
		PIN: UN1993 PG: III

ETHYL ISO-VALERATE	CI#	Not available.
(CH3)2CHCH2CO2C2H5	CAS#	108-64-5
AC-4416, 40434	Code	AC-4416
	Formula weight	130.19
Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Supersedes	
	(CH3)2CHCH2CO2C2H5 AC-4416, 40434 Anachemia Canada. 255 Norman. Lachine (Montreal), Que	(CH3)2CHCH2CO2C2H5 AC-4416, 40434 Code Formula weight Anachemia Canada. 255 Norman. Lachine (Montreal), Que

Section II. Ingredients			
Name	CAS#	%	TLV
1) ETHYL ISO-VALERATE	108-64-5	98	Not established by ACGIH

Toxicity values of the ETHYL ISO-VALERATE:

hazardous ingredients

ORAL (LD50): Acute: 7031 mg/kg (Rabbit). INTRAPERITONEAL (LD50): Acute: 1200 mg/kg (Rat).

Section III. Physic	cal Data	ETHYL ISO-VALERATE	page 2/4
Physical state and appearance / Odor	Colorless liquid. Apple-like odor.		
pH (1% soln/water)	Not available.		
Odor threshold	Not available.		
Percent volatile	Not available.		
Freezing point	-99°C		
Boiling point	131 to 133°C		
Specific gravity	0.868 (Water = 1)		
Vapor density	Not available.		
Vapor pressure	7.5 mm of Hg (@ 20°C)		
Water/oil dist. coeff.	Not available.		
Evaporation rate	Not available.		
Solubility	Soluble in cold water.		

Section IV. Fire and Explosion Data		
Flash point	CLOSED CUP: 26°C	
Flammable limits	Not available.	
Auto-ignition temperature	Not available.	
Fire degradation products	Oxides of carbon (CO, CO2).	
Fire extinguishing procedures	Use DRY chemical, carbon dioxide, or 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. Expected to be sensitive to static discharge. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.	

Section V. To.	Section V. Toxicological Properties		
Routes of entry	Ingestion and inhalation. Eye contact. Skin contact.		
Effects of Acute Exposure	May be harmful by ingestion, inhalation, or by skin absorption. May cause irritation.		
Eye	No specific information is available on this material.		
Skin	No specific information is available on this material. IRRITATION: SKIN-RABBIT 500 mg/24H MILD.		
Inhalation	No specific information is available on this material.		
Ingestion	No specific information is available on this material.		

Section V. Toxicological Properties	ETHYL ISO-VALERATE

Effects of Chronic Overexposure 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.

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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 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	Stable. 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, reducing agents.	
Reaction Products	Not available. Hazardous polymerization will not occur.	

ETHYL ISO-VALERATE Section VIII. Preventive Measures

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

Spill and leak

Evacuate the area. Eliminate all sources of ignition. Cover with dry soda ash, sand or lime. 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. 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 only 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.

Section IX. Protective Measures

Protective clothing

Splash goggles. Impervious 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 only in a chemical fume hood. Use adequate ventilation. Do not use in unventilated spaces.

Section X. Other Information

Special Precautions or Flammable liquid! To the best of our knowledge, the chemical, physical and toxicity of this substance has not been fully investigated. Do not breathe vapor. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Keep away from heat, sparks and flame. Use non-sparking tools. Handle and open container with care. Container should be opened only by a technically qualified person. RTECS NO: NY1504000 (Ethyl isovalerate).



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NFPA

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

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Telephone# (514) 489-5711

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