

MATERIAL SAFETY DATA SHEET

ELAN CHEMICAL COMPANY, INC

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1. Product /Company Identification

Product Name: **ETHYL CAPROATE**

Manufacturer: Elan Chemical Co. Inc.
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U.S.A.

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2. Composition/Information on Ingredient

Synonyms: Caproic Acid, ethyl ester; Ethyl Hexanoate

CAS Number: 123-66-0

FEMA: 2439

Molecular Formula: $C_8H_{16}O_2$ Molecular Weight: 144.21

3. Hazards Identification

Emergency Overview

Harmful by inhalation and if swallowed.

Irritant. Irritating to eyes, respiratory system and skin.

Combustible, Flammable, Irritant.

	<u>HMIS</u>	<u>NFPA</u>
Health	2	2
Flammability	2	2
Reactivity	0	0

4. First Aid Measures

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious.
Call a physician.

Inhalation Exposure: If inhaled, move to fresh air. If not breathing give artificial respiration. IF breathing is difficult, give oxygen.

Skin Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.
Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes

5. Fire Fighting Measures

Flammable Hazards: **YES**
Flash Point: 53°C (127.4°F)
Extinguishing Material: Water Spray
Carbon Dioxide
Dry Chemical Powder
Foam
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Fire Fighting Hazards: Emits toxic fumes under fire conditions. Combustible.

6. Accidental Release Measures

Personal Protection: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Clean up Methods: Absorb on sand or vermiculite and place in a closed container, and hold for disposal. Ventilate area and wash spill site after clean up is complete.

7. Handling and Storage Procedures

Handling: Do not breathe vapor. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.
Storage: Keep container tightly closed. Keep away from heat and open flame.

8. Exposure Controls/ PPE

Respiratory: At a minimum, workers should wear a NIOSH-approved full-face air-purifying respirator.
Eyes: Chemical Safety goggles
Skin: Chemical resistant gloves.
Ventilation: Mechanical exhaust required.

General Hygiene Measures: Wash thoroughly after handling.

9. Physical/Chemical Properties

Appearance: Colorless to very pale yellow liquid
Odor: Powerful, fruity odor with a pineapple-banana note.
Boiling Point: 165-167° C

Melting Point:	N/ A
Flash Point:	53 °C (127.4° F)
Vapor Density:	5
Specific Gravity:	0.871
Refractive Index:	1.407

10. Stability and Reactivity

Stability:	Stable
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon Monoxide, Carbon Dioxide.

11. Toxicological Information

Exposure Effects:	
Skin Contact:	Causes skin irritation.
Skin Absorption:	May be harmful if absorbed through skin.
Eye Contact:	Causes eye irritation.
Inhalation:	May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
Ingestion:	May be harmful if swallowed.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. Ecological Information

No Data Available.

13. Disposal Considerations

Disposal:	This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Dispose of in accordance with local, state, and federal regulations.
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14. Transportation Information

Ground (DOT)
Proper shipping Name: Flammable Liquid n.o.s.
UN#: 1993
Class: 3
Packing group: Packing Group III
Hazard label: Flammable liquid.
PIH: not PIH

IATA
Proper shipping name: Flammable Liquid n.o.s.
IATA UN Number: 1993
Hazard class: 3
Packing group: III

15. Regulatory Information

EU Classifications:

Symbol of Danger: Xi

Indication of Danger: Irritant

R: 10 36/37/38

Risk Statements: Flammable. Irritating to eyes, respiratory system and skin

S: 16 26 36

Safety Statements: Keep away from sources of ignition- no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection.

US Classifications:

Indication of Danger: Combustible, Flammable, Irritant.

Risk Statements: Flammable. Irritating to eyes, respiratory system and skin

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection.

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada:

WHMIS Classification: This product has been classified in accordance with the hazard criteria Of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

16. Additional Information

This material safety data sheet is intended to meet the specific requirements of 29 CFR 1910.1200 and should be used accordingly. While the information has been obtained from sources believed to be accurate and reliable, no warranty, expressed or implied, can be made with regard to its completeness, correctness or accuracy. Any users or handlers of this product who are not under the direct control of Elan Chemical Co., Inc. are responsible for evaluating this information in light of their particular situation and are responsible for all losses, damages or expenses that result while this material is under their control. It is also the responsibility of the users and handlers to observe any and all laws and regulations (Federal, State and Local) concerning the transportation, use, handling, storage and disposal of this product.