

# MATERIAL SAFETY DATA SHEET

## ELAN CHEMICAL COMPANY, INC

Date Printed: October 23, 2007  
Date Updated: November 30, 2005

### 1. Product /Company Identification

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Product Name: **ETHYL LEVULINATE**

Manufacturer: Elan Chemical Co. Inc.  
268 Doremus Ave.  
Newark, NJ 07105  
U.S.A.

Phone: (973)344-8014  
Fax: (973)344-5880  
Emergency: 800-424-9300 (Chemtrec)

### 2. Composition/Information on Ingredient

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Synonyms: Ethyl levulate  
CAS Number: 539-88-8  
FEMA: 2442  
Molecular Formula:  $C_7H_{12}O_3$                       Molecular Weight: 144.17

### 3. Hazards Identification

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**Harmful by inhalation** and if swallowed.  
Irritant. Irritating to eyes, respiratory system and skin.

	<u>HMIS</u>	<u>NFPA</u>
Health	0	0
Flammability	1	1
Reactivity	0	0

### 4. First Aid Measures

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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

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Flammable Hazards: **NO**

Flash Point: 94°C (201.2°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.

## 6. Accidental Release Measures

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Personal Protection: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves to minimize direct contact with skin or eyes and prevent inhalation of vapors.

Clean up Methods: Absorb on sand or vermiculite and place in a closed container, and hold for waste disposal. Ventilate area and wash spill site after clean up is complete.

## 7. Handling and Storage Procedures

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Handling: Do not breathe vapor. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Storage: Keep container tightly closed.

## 8. Exposure Controls/ PPE

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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

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Appearance: Colorless to slightly yellow liquid  
Boiling Point: 203-105° C  
Melting Point: N/ A  
Flash Point: 94°C (201.2° F)  
Vapor Density: N/A  
Specific Gravity: 1.012  
Refractive Index: 1.423

## **10. Stability and Reactivity**

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

## **11. Toxicological Information**

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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**

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No Data Available.

## **13. Disposal Considerations**

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Disposal: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of in accordance with local, state, and federal regulations.

## **14. Transportation Information**

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Ground (DOT) & Air (IATA)  
Proper shipping Name: None.  
Non-hazardous

## **15. Regulatory Information**

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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: No

NDSL: No

## **16. Additional Information**

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*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.*