

# MATERIAL SAFETY DATA SHEET

## ELAN CHEMICAL COMPANY, INC

Date Printed: October 23, 2007  
Date Updated: August 1, 2005

### 1. Product /Company Identification

---

Product Name: **AMYL FORMATE (ISO)**

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

---

Synonyms: 1-Butanol, Iso amyl formate, isopentyl formate

CAS Number: 110-45-2

FEMA: 2069

Molecular Formula:  $C_6H_{12}O_2$  Molecular Weight: 116.16

### 3. Hazards Identification

---

Emergency Overview

**Harmful by inhalation** and if swallowed.

Irritant. Irritating to eyes, respiratory system and skin.

Flammable.

	<u>HMIS</u>	<u>NFPA</u>
Health	1	1
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**  
**Vapor may travel considerable distance to source of ignition and flash back.**

Flash Point: 26 °C (78.8 °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 Hazard: Flammable liquid. Vapor may travel significant distance to source of ignition and flash back. Emits toxic under fire conditions.

## 6. Accidental Release Measures

---

Procedure to be followed in case of leak or spill:  
Evacuate Area. Shut off sources of ignition.

Personal Protection: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Clean up Methods: Cover with dry lime, sand or soda ash, pick up, keep 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

---

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, sparks, and open flame. Store in a cool, dry place.

## 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 contaminated clothing before reuse. Wash thoroughly after handling.

## 9. Physical/Chemical Properties

---

Appearance: Very faintly yellow liquid  
Odor: fruity, plum-like odor.  
Boiling Point: 121-123 ° C  
Melting Point: N/ A  
Flash Point: 26°C (78.8° F)  
Vapor Density: N/A  
Specific Gravity: 0.882  
Refractive Index: 1.397

## 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.

## 14. Transportation Information

---

Ground (DOT) & Air (IATA)  
Proper shipping Name: Amyl Formates  
UN#: 1109  
Hazard Class: 3  
Packing group: III

## 15. Regulatory Information

---

EU Classifications:  
Symbol of Danger: Xi  
Indication of Danger: Irritant  
R: 10 36/37  
Risk Statements: Flammable. Irritating to eyes, respiratory system and skin  
S: 24  
Safety Statements: Avoid contact with skin.

US Classifications:  
Indication of Danger: Flammable, Irritant.  
Risk Statements: Irritating to eyes, respiratory system and skin  
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.

United States Regulatory Information  
SARA Listed: No  
TSCA Inventory Item: Yes

Canada:  
WHMIS Classification: This product has been classified in accordance with the hazardous 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.*

