

**SIGMA-ALDRICH**

(6)

**Material Safety Data Sheet**

Date Printed: 07/28/2005  
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 Version 1.40

**Section 1 - Product and Company Information**

**Product Name** ENDOSULFAN II (BETA), 25MG, NEAT  
**Product Number** 48578  
**Brand** Supelco Chemical

**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 314 771 5765  
**Fax:** 800 325 5052      **Emergency Phone:** 414 273 3850 Ext. 5996

**Section 2 - Composition/Information on Ingredient**

<b>Substance Name</b>	<b>CAS #</b>	<b>SARA 313</b>	<b>EC no</b>	<b>Annex I Index Number</b>
BETA-ENDOSULFAN	33213-65-9		No	
<b>Formula</b> <b>Synonyms</b>	C9H6ClO3S beta-Benzoezin, Endosulfan B, b-Endosulfan-beta, beta-Endosulfan, Endosulfan 2, General Weed Killer, beta-Thiodan, alpha-Thionex			

**Section 3 - Hazards Identification**

**Emergency Overview**  
 Toxic (USA) Harmful (EU).  
 Harmful if swallowed.  
 Readily absorbed through skin. Target organ(s): Central nervous system. Eyes.

**HMIS Rating**  
 Health: 2\*      Flammability: 0      Reactivity: 0

**NFPA Rating**  
 Health: 2      Flammability: 0      Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

**Section 4 - First Aid Measures**

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

**Inhalation Exposure**  
 If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Dermal Exposure**  
 In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**Eye Exposure**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Section 5 - Fire Fighting Measures**

**Autogignition Temp:** N/A

**Extinguishing Media**  
**Suitable**  
 Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

**Firefighting****Protective Equipment**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s)**  
 Emits toxic fumes under fire conditions.

**Section 6 - Accidental Release Measures**

**Procedure to be Followed in Case of Leak or Spill**  
 Evacuate area.

**Procedure(s) of Personal Precaution(s)**  
 Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

**Methods for Cleaning Up**

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**Section 7 - Handling and Storage****Handling**

**User Exposure**  
 Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage**

**Suitable**  
 Keep tightly closed.

**Section 8 - Exposure Controls / PPE**

**Engineering Controls**  
 Mechanical exhaust required. Safely shower and eye bath.

**Personal Protective Equipment**

**Respiratory**  
 Government approved respirator.  
**Hand**  
 Compatible chemical-resistant gloves.  
**Eye**  
 Chemical safety goggles.

**General Hygiene Measures**  
Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

**Appearance**  
**Physical State**  
Solid

**Molecular Weight:** 406.9 AMU

**pH** N/A  
**BP/BP Range** N/A  
**MP/MP Range** N/A  
**Freezing Point** N/A  
**Vapor Pressure** N/A  
**Vapor Density** N/A  
**Saturated Vapor Conc.** N/A  
**SG/Density** N/A  
**Bulk Density** N/A  
**Odor Threshold** N/A  
**Volatile%** N/A  
**VOC Content** N/A  
**Water Content** N/A  
**Solvent Content** N/A  
**Evaporation Rate** N/A  
**Viscosity** N/A  
**Partition Coefficient** N/A  
**Decomposition Temp.** N/A  
**Flash Point °F** N/A  
**Flash Point °C** N/A  
**Explosion Limits** N/A

**Flammability** N/A  
**Autoignition Temp** N/A  
**Solubility** N/A

N/A = not available

## Section 10 - Stability and Reactivity

**Stability**  
Stable.  
**Materials to Avoid**  
Strong oxidizing agents.

**Hazardous Decomposition Products**  
**Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide, Sulfur oxides, Hydrogen chloride gas.



**Hazardous Polymerization**  
**Hazardous Polymerization**  
Will not occur.

## Section 11 - Toxicological Information

**Route of Exposure**  
**Skin Contact**  
May cause skin irritation.  
**Skin Absorption**  
May be harmful if absorbed through the skin. Readily absorbed through skin.

**Eye Contact**  
May cause eye irritation.  
**Inhalation**  
Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.  
**Ingestion**  
Harmful if swallowed.

**Target Organ(s) or System(s)**  
Central nervous system. Eyes. Blood. Liver. Kidneys.

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

**RTECS Number:** RB9875200

### Toxicity Data

Oral - Rat: 240 mg/kg (LD50)

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

### Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

### DOT

**Proper Shipping Name:** Toxic solids, organic, n.o.s.  
**UN#:** 2811  
**Class:** 6.1  
**Packing Group:** Packing Group II  
**Hazard Label:** Toxic substances.  
**PIH:** Not PIH

### IATA

**Proper Shipping Name:** Toxic solid, organic, n.o.s.  
**IATA UN Number:** 2811  
**Hazard Class:** 6.1  
**Packing Group:** II

## Section 15 - Regulatory Information

### EU Additional Classification

Symbol of Danger: Xn

Indication of Danger

Harmful.

Risk Statements R: 22

Harmful if swallowed.

Safety Statements S: 36

Wear suitable protective clothing.

### US Classification and Label Text

Indication of Danger

Toxic (USA) Harmful (EU).

Risk Statements

Harmful if swallowed.

Safety Statements

Wear suitable protective clothing.

US Statements

Readily absorbed through skin. Target organ(s): Central nervous system. Eyes.

### United States Regulatory Information

SARA Listed: No

### Canada Regulatory Information

#### 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

## Section 16 - Other Information

### Disclaimer

For R&D use only. Not for drug, household or other uses.

### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

