

# MATERIAL SAFETY DATA SHEET

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## SECTION I – GENERAL INFORMATION

TRADE NAME **ENDOSULFAN 3EC**  
CHEMICAL NAME Endosulfan:  
(Hexachlorohexahydromethano-2,4,3-Benzodioxathiepin-3-Oxide)  
CHEMICAL FAMILY Organochlorine Pesticide (Insecticide)  
EPA REG. NO. 19713-399  
SIGNAL WORD DANGER/POISON

## SECTION II – INGREDIENTS (Class = H (Hazardous), NH (Non-Hazardous))

NAME	CAS NO.	% (by wt.)	TLV	CLASS
Endosulfan	115-29-7	34	0.1 mg/m3	H
Inerts	N/A	66	N/A	NH

## SECTION III – PHYSICAL DATA

Boiling Point	>212°F	Specific Gravity	1.06
Vapor Pressure	NK	% Volatiles	N/A
Vapor Density	>1	Solubility in Water	Emulsifies
pH	Neutral	Appearance/Odor	Brown liquid, chlorine-sulfur odor

## SECTION IV – FIRE & EXPLOSION DATA

Flash Point 105°F (Combustible)  
Extinguishing Media Foam, CO<sub>2</sub>, or dry chemical. Soft stream water fog only if necessary. Contain all runoff.  
Fire Fighting Procedures Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapor generated.

## SECTION V – REACTIVITY DATA

Stability	Stable under normal conditions.
Conditions to Avoid	Extreme temperatures, open flames, strong acids, oxidizers
Incompatibility	Strong acids, alkalis, oxidizers, reducing agents
Hazardous Decomposition Products	CO, CO <sub>2</sub> , SO <sub>x</sub> , HC <sub>1</sub> , and toxic organochlorine vapors
Hazardous Polymerization	Will not occur

## SECTION VI – HEALTH HAZARD DATA

Carcinogenicity N/A  
Toxicity Data Oral LD50 (Rat) = 44.9 mg/kg  
Dermal LD50 (Rabbit) = 256 mg/kg  
0.1 mg/kg (skin)  
TLV Health: 3, Fire: 2, Reactivity: 1  
N.F.P.A. (Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)  
Effects of Overexposure Excitability, apprehension, dizziness, headache, disorientation, weakness, convulsions, muscle spasms, vomiting

## SECTION VII – EMERGENCY PROCEDURES

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water, if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.  
**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.  
**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.

**Note to Physician:** Endosulfan is a central nervous system stimulant absorbable by mouth, inhalation or through contact with skin. It may cause convulsions. There is no specific antidote. Diazepam I.V. is the drug of choice. Barbituric acid derivatives such as Phenobarbital may be used additionally. A neuromuscular blocking agent may be used if convulsions persist. This type of drug may be used only if complete control of respiration can be maintained. Epinephrine derivatives are absolutely contraindicated. This formula contains petroleum hydrocarbons (xylene range aromatic solvent). Care should be taken to prevent aspiration because of the possibility of chemical pneumonia or pulmonary edema due to the organic solvent in the formulation.

## SECTION VIII- SPILL OR LEAK PROCEDURES

**Steps to be taken in case of material leak or spill**  
Isolate spill first. Assure protective clothing is worn. Prevent runoff if possible. Pick up spills with non-combustible absorbent material and place in labeled containers.  
**Waste Disposal Method**  
Dispose of in accordance with Local, State, and Federal Regulations.

## SECTION IX – SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH approved pesticide respirator
Ventilation	Required in closed areas
Protective Gloves	Rubber impervious
Eye Protection	Safety goggles
Other	Long-sleeved shirt and pants, coveralls, impervious apron, rubber boots

## SECTION X – SPECIAL PRECAUTIONS

**Precautions To Be Taken In Handling & Storage**  
KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.  
Store in cool, dry, well ventilated area. Keep away from foodstuff.  
D.O.T. Description Organochlorine Pesticide, Liquid, Toxic Flammable, (Endosulfan/Xylene), 6.1, UN-2995, PG-III, Marine Pollutant  
Freight Description Agricultural Insecticide, Liquid, N.O.S.  
Reportable Quantity 1 Lb.  
E.R.G. Guide Sheet 131

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