

MATERIAL SAFETY DATA SHEET

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Emergency Telephone No.

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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	0.1 mg/m3	H
Inerts	N/A	66.0	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	4-7	Appearance/Odor	Brown liquid, chlorine-sulfur odor

SECTION IV – FIRE & EXPLOSION DATA

Flash Point: 105°F (Combustible)
Extinguishing Media: Foam, CO₂, 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, CO₂, SO_x HCL, 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
TLV: 0.1 mg/kg (skin)
N.F.P.A.: Health: 3, Fire: 2, Reactivity: 1
(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)
Effects of Overexposure: Excitability, apprehension, dizziness, headache, disorientation, weakness, convulsions, muscle spasms, vomiting. Do not ingest.

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 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.
If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.
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.

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: Chemical resistant
Eye Protection: Safety goggles
Other: Coveralls over long-sleeved shirt and long pants, chemical resistant footwear plus socks, chemical-resistant headgear for overhead exposure

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: UN-2995, Organochlorine Pesticide, Liquid, Toxic, Flammable, (Endosulfan/Xylene), 6.1, (3), PG-III, Marine Pollutant, RQ 1 lb.
Freight Description: Agricultural Insecticide, Liquid, N.O.S.
Reportable Quantity: 1 Lb.
E.R.G. Guide Sheet: 131

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