

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**Danger:** Poisonous if swallowed, inhaled or absorbed through skin. Do not breathe spray. Do not get in eyes, on skin or on clothing.

### STATEMENT OF PRACTICAL TREATMENT:

**If swallowed and a victim is conscious and not convulsing:** Call a physician immediately. Give one or two glasses of water and induce vomiting by touching back of throat with finger. It is preferable to induce vomiting under medical supervision or to use gastric lavage with endotracheal tube because of aspiration hazard. Remove victim immediately to emergency treatment facilities.

**If swallowed and victim is unconscious:** Clear the upper airway and administer mouth-to-mouth resuscitation. If heart beat is absent, administer cardiac resuscitation. Do not give anything by mouth. If convulsing, hold head back with jaw forward to keep upper airway clear. Transport immediately to emergency treatment facility, maintaining clear airway and administering artificial respiration.

**If on Skin:** Remove by washing with soap and water. Get medical attention.

**If in Eyes:** Flush the eyes with clean water for 15 minutes. Get medical attention.

**If Inhaled:** Remove victim to fresh air. Transport immediately to emergency treatment facility.

#### INFORMATION FOR PHYSICIANS

Endrin is a CNS depressant and hepatotoxin. Toxic dosage causes convulsions, respiratory depression, and liver damage. Impaired respiration must be supported by oxygen given by mechanical ventilation. Diazepam is useful in controlling convulsions. Intravenous glucose and B vitamins help to protect the liver. There is no specific antidote. Do not give vegetable oils or milk (which increases GI absorption). Large amounts of activated charcoal and saline laxatives help to limit GI absorption. Do not give adrenergic agents (myocardial irritability). Excretion of endrin from the body may require up to 3 weeks.

#### WORK SAFETY RULES

Wear clean synthetic gloves and a mask or a pesticide respirator, jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and Health under the provisions of 30 CFR Part 11. Wash thoroughly with soap and water after handling and before eating or smoking. Wear clean clothing daily.

#### REQUIRED CLOTHING FOR FEMALE WORKERS

Female ground applicators, mixers and loaders and flagpersons must wear long sleeved shirts and long pants made of a closely woven fabric, and widebrimmed hats. Mixers and loaders must also wear rubber or synthetic rubber boots and aprons.

#### WARNING TO FEMALE WORKERS

The United States Environmental Protection Agency has determined that endrin causes birth defects in laboratory animals. Exposure to endrin during pregnancy should be avoided. Female workers must be sure to wear all protective clothing and use all protective equipment specified on this label in case of accidental spills or other unusual exposure. Cease work immediately and follow directions for contact with endrin.

Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals. Do not contaminate feed and foodstuffs.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Birds and other wildlife in treated areas may be killed. Keep out of any body of water. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

#### Procedures to be Followed if Fish Kills Occur or if Ponds are Contaminated

In case of fish kills, fish must be collected promptly and disposed of by burial. Ponds in which fish kills have occurred, and user-owned ponds exposed to endrin by application at distances closer than otherwise prohibited, must be posted with signs stating "Contaminated No Fishing." Signs must remain for one year after a fish kill has occurred or for six months after lesser contamination unless laboratory analysis shows endrin residues in the edible portion of fish to be less than 0.3 parts per million (ppm). This pesticide is toxic to bees exposed to direct application. Applicators should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

### PHYSICAL AND CHEMICAL HAZARDS

**CAUTION: KEEP AWAY FROM HEAT OR OPEN FLAMES.  
PROTECT FROM TEMPERATURES BELOW 32 °F**

### RESTRICTED USE PESTICIDE

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION

ACCEPTED  
MAR 20 1981  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, Endrin is registered under EPA Reg. No. 5905-355

# HELENA

# ENDRIN 1.6-E

## AN EMULSIFIABLE LIQUID

#### ACTIVE INGREDIENTS:

Endrin (Hexachloroepoxyoctahydro-endo, endo-dimetharonaphthalene) .. 19.8%

Xylene Range Aromatic Hydrocarbon Solvent ..... 75.0%

**INERT INGREDIENTS** ..... 5.2%

**TOTAL** ..... 100.0%

#### BY WEIGHT

(CONTAINS 1.6 LBS. ENDRIN PER GALLON)

**KEEP OUT OF THE REACH OF CHILDREN**

**DANGER**



**POISON**

SEE SIDE PANELS FOR STATEMENT OF PRACTICAL TREATMENT AND ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 5905-355

NET CONTENTS 5 Gal (18.92 Liters)

47

E.P.A. EST. NO.  
SN-0280-M

INSECTICIDE LIQUID N.O.S

HELENA

HELENA CHEMICAL COMPANY

**STATEMENTS**

**Domestic Animals**

Do not breathe spray

**TREATMENT:**

Call a physician immediately. Give 1/2 tsp of the emulsion back of throat with finger. Repeat 3 times daily. Use gastric lavage with 1% solution of sodium bicarbonate. Administer immediately to emulsions.

and administer mouth-to-mouth resuscitation. Do not give anything by mouth to keep upper airway clear. Maintain clear airway and

Call for medical attention. Call for emergency treatment facility.

Causes convulsions. respiratory supported by oxygen given by tracheotomy. Intravenous glucose solution. Do not give vegetable oils. Activated charcoal and saline cathartics (myocardial irritability).

Operator jointly approved by the U.S. Bureau of Mines and Health. Soap and water after handling.

**WORKERS:** Operators must wear long-sleeved shirts, long pants, and aprons.

Remember that endrin causes birth defects. Pregnancy should be avoided. Use all protective equipment. Avoid usual exposure. Cease work.

Do not harm humans or beneficial animals.

**WARNINGS**

In treated areas may be killed. Contaminated areas favor drift from treated areas. Disposal of wastes. Apply this

Do not bury. Ponds in which endrin is applied at distances greater than 100 feet from the treated area should be closed for six months after application. Residues in the edibles portion of the crop are toxic to bees. Exposed to with periods of minimum bee

**HAZARDS**

DO NOT OPEN FLAMES BELOW 32 FEET

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**ACCEPTED**  
MAR 20 1981  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the purpose of being sold under EPA Reg. No. 5905-355



**ENDRIN 1.6-E**

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Endrin (Hexachloroepoxyoctahydro-endo, endo-dimethanonaphthalene) ..	19.8%
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<b>TOTAL</b> .....	100.0%

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**DANGER**  
  
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NET CONTENTS 5 Gal (18.92 Liters) **47** EPA EST. NO. SN-0280 M

INSECTICIDE LIQUID N O S.



HELENA CHEMICAL COMPANY

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**STORAGE AND DISPOSAL**

**PROHIBITIONS**  
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED.

**PESTICIDE DISPOSAL**  
PESTICIDE SPRAY, MIXTURE OR RINSATE THAT CANNOT BE USED OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF IN A LANDFILL APPROVED FOR PESTICIDES OR BURIED IN A SAFE PLACE AWAY FROM WATER SUPPLIES.

**CONTAINER DISPOSAL**  
TRIPLE RINSE (OR EQUIVALENT) AND OFFER FOR RECYCLING, RECONDITIONING OR DISPOSAL IN APPROVED LANDFILL OR BURY IN A SAFE PLACE.

**GENERAL**  
CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

**USE AND APPLICATION**

Application should be made only by trained personnel using approved protective equipment. These recommendations are based on ground applications only. They are not to be used for any aircraft applications. Dosages given refer to pints of HELENA ENDRIN 1.6-E in 50 to 100 gallons of water to uniformly and thoroughly cover one acre.

**COTTON:** For use in Areas West of Interstate Highway #35 only. Control Weevils, Bollworms, Cabbage Loopers, Cotton Leaf Perforators, Cotton Leafworms, Crosshopper, Plant Bugs, Salt-marsh Caterpillars, Trips.

**Early Season Control** — Apply 1 pt. per acre in sufficient water for thorough coverage. Begin at the 4 leaf stage. Make 2 to 4 applications at 7 to 10 day intervals.

**Mid and Late Season Control** — Apply 1 to 2 pts. per acre in sufficient water for thorough coverage. Repeat at 4 to 5 day intervals until infestation is brought under control.

**DO NOT APPLY WITHIN 5 DAYS OF HANDPICKING PERSONS WORKING IN THE FIELDS WITHIN FIVE DAYS AFTER TREATMENT SHOULD BE PROTECTED. TREATED COTTON SHOULD NOT BE GRAZED BY DAIRY ANIMALS OR BY ANIMALS BEING FINISHED FOR SLAUGHTER.**

**Application Restrictions**  
Do not apply this product within 1/4 mile of human habitation. Do not apply this product by air within 1/2 mile or by ground within 1/4 mile of lakes, ponds or streams. Application may be made at distances closer to ponds owned by the user but such application may result in excessive contamination and fish kills. Do not apply when rainfall is imminent. Apply only when wind velocity is between 2 and 10 mph.

**Prophylactic Use**  
Apply only when wind velocity is between 2 and 10 mph.

**Equipment**  
Ground Application — For use with boom nozzle ground equipment. Apply at not less than 5 gallons total mixture (water and chemical) per acre. Do not use nozzle liquid pressure at greater than 40 pounds per square inch (psi). Do not use cone nozzle size smaller than one capable of delivering 0.16 gallons per minute (gpm) at 40 psi such as type D2-25 or TX-10 or any other atomizer or nozzle giving smaller drop size.

**Aerial Application** — Do not apply at less than 2 gallons total mixture of water and chemical per acre. Do not operate nozzle liquid pressure over 40 psi or with a fan nozzle smaller than one capable of delivering 0.4 gpm or fan angle greater than 65 degrees such as type C504. Do not use any cone type nozzle smaller than those capable of delivering 0.4 gpm or whirl plate smaller than #46 such as type D-46 or any other atomizer or nozzle giving smaller drop size. Do not release this material at greater than 10 feet above the crop.

**NOTICE OF WARRANTY**

HELENA CHEMICAL COMPANY warrants that this material conforms to the description on the label and that it is free from adulteration. It is sold as a restricted use pesticide and its use is limited to those uses specified on the label. It is not to be used for any other purpose. The user assumes all liability for any damage or loss resulting from the use of this material. HELENA CHEMICAL COMPANY does not warrant the effectiveness of this material against any pest or disease.