



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7509)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

10163-223

Date of Issuance:

MAR - 4 1998

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Term of Issuance: Conditional

Name of Pesticide Product:

Gowan Endosulfan
Technical

Name and Address of Registrant (include ZIP Code):

Gowan Company
P.O. Box 5569
Yuma, AZ 85366

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is not to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been approved by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Add the phrase "EPA Reg. No. 10163-223".
 - b. In the Statement of Practical Treatment, revise the If inhaled advice to read "Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention." Add "Get medical attention." to the end of the If on skin advice. Revise the If in eyes advice to read "Flush eyes with plenty of water. Call a physician immediately."

Signature of Approving Official:

Date:

MAR - 4 1998

c. Directly under the Statement of Practical Treatment add:

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.

d. Revise the Hazards to Humans and Domestic Animals to read:

Fatal if swallowed, inhaled, or absorbed through skin. Do not breath vapors. Do not get in eyes, on skin, or on clothing. During formulating and loading operations wear clean synthetic rubber gloves, protective clothing (such as coveralls, socks and shoes), protective eyewear, and a pesticide respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G). Wash thoroughly with soap and water after handling and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

e. Revise the Environmental Hazards to read as follows:

This pesticide is toxic to fish, birds, and other wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For Guidance contact your State Water Board or Regional Office of the EPA.

f. Under the heading Directions For Use, delete "For the manufacture of insecticides and acaricides for greenhouse use, tree fruit and nut crops, field, and vegetable crops and domestic outdoor uses only." The specific permitted uses are detailed later in the label.

- g. Relocate "Formulators using this product are responsible for obtaining EPA Registration for their formulated product." to appear after the end of the listing of specific permitted uses, i.e., after "Greenhouse use: Ornamental plants and tomatoes."
- h. In the **Storage and Disposal** section, revise the **STORAGE** text to read as follows:

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry, well-ventilated place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. The solid technical is sensitive to moisture, acids, and bases. Decomposition will generate sulfur dioxide and endosulfan alcohol. Care should be exercised by workers entering the storage area since there is a possibility that sulfur dioxide may be present. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

- i. In the **Storage and Disposal** section, revise the heading "Disposal" to **PESTICIDE DISPOSAL:** and revise "Container:" to **CONTAINER DISPOSAL:**.
- j. The Agency notes that your Container Disposal directions refers to plastic bags and metal drums but your application form indicates metal containers, presumably drums. Is there a plastic bag liner in the drums, or is the plastic bag statement just a carryover from the label you are repacking which presumably includes a smaller size packed in plastic bags? If there is no plastic bag or liner involved with your product then you may delete the disposal directions for plastic bags.
- k. The label should include a section entitled **Formulator Information** which should include specifications on chemical and physical data. Alternatively, there may be a statement referring formulators to identified Technical Bulletin(s) which contain such information. If there is a referral to one or more Technical Bulletins, then you must submit copies of those bulletins to the Agency for comment and inclusion in this product's registration file.
- l. Revise the permitted uses heading to read "**FOR FORMULATION INTO END-USE INSECTICIDE PRODUCTS FOR THE FOLLOWING USES:**".

4/6

page 4 of 4
EPA Reg. No. 10163-223

- m. Group all the fruits together on this label. Revise the heading "Outdoor tree fruit and nut crops" to **OUTDOOR FRUIT AND NUT CROPS:** and then incorporate blueberries, grapes, pineapples, and strawberries (in their correct alphabetical location) under this heading from the current **FIELD AND VEGETABLE CROPS:** listing.
 - n. Relocate "tea" to the **FIELD AND VEGETABLE CROPS:** listing in its correct alphabetical location (note reformatting of heading).
 - o. In the **FIELD AND VEGETABLE CROPS:** listing, delete the following unsupported uses: "Alfalfa grown for forage", "artichokes", "corn seed crop", "and seed" for peas, "safflower", "sugar beets", "sunflower". Also, revise "carrot" to "carrots".
 - p. Revise the heading "Ornamental plant trees, and shrubs: domestic outdoor use." to **ORNAMENTAL OUTDOOR USE:** and add "Ornamental Plants," as the first entry and add "Ornamental Trees and Shrubs i.e., before "dogwood".
 - q. For consistency, add "'D." before "**GREENHOUSE USE:**". Note the reformatting of the heading - all capitals and bold type.
 - r. Be sure to meet type size requirements for elements of the label with minimum type size requirements.
3. Submit three (3) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

76

ACCEPTED
with COMMENTS
in EPA Letter Dated

GOWAN ENDOSULFAN TECHNICAL

For Manufacture of Insecticides and Acaracides only.

MAR - 4 1998

Active Ingredient:	
Endosulfan (Hexachlorohexahydromethano-2,4,3-benzodioxathiepin 3-oxide).....	95.0%
Inert Ingredients:.....	5.0%
Total:	100.0%

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

10163-223

Keep out of reach of children DANGER XX POISON

Statement of Practical Treatment

If Swallowed: call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

If Inhaled: remove from contaminated area and have patient lie down and keep quiet.

If on skin: remove contaminated clothing and wash skin immediately with soap and water.

If in eyes: wash with flowing water for at least 15 minutes

Gowan Company
PO Box 5569
Yuma, AZ 85366

EPA Reg. No. 10163-
Net wt. 125 kg.

EPA Est. No. 67545-AZ-1

Precautionary Statements Hazards to humans and domestic animals POISON

Poisonous if swallowed, inhaled, or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear natural rubber gloves, protective clothing and goggles. In case of contact, wash immediately with soap and water. During manufacturing wear a respirator jointly approved by the Mining Enforcement and Safety Administration, and NIOSH National Institute for Occupational Safety and Health under the provisions of 30 CFR part 11. Keep all unprotected persons and beneficial animals out of operating area vicinity where there may be danger of drift. Wash hands arms and face thoroughly with soap and hot water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

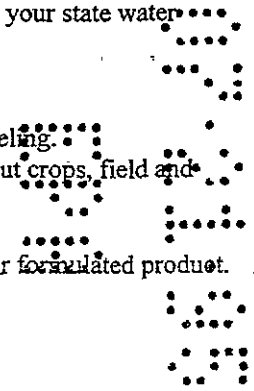
Environmental Hazards

This pesticide is toxic to fish. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in NPDES permit. Do not discharge effluent containing this product into sewage systems without providing notification to the Sewage District Authority. For guidance contact your state water board or regional office of the EPA.

Directions for Use:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For the manufacture of insecticides and acaracides for greenhouse use, tree fruit and nut crops, field and vegetable crops and domestic outdoor uses only.

Formulators using this product are responsible for obtaining EPA Registration for their formulated product.



6/6

Notice on Conditions of Sale

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

Storage and Disposal

Storage: Do not contaminate water, food or feed by storage and disposal. Open dumping is prohibited.

Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. In case of minor spills, follow all precautions indicated above and clean up immediately. Sweep up and dispose of wastes and broken or empty containers in a landfill approved for pesticide use.

Container: Plastic bag: Completely empty bags into equipment. Then dispose of empty bags in a sanitary landfill or by incineration or if allowed by state and local authorities by burning. If burned stay out of smoke. Metal Drums: If drum is contaminated triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities.

FOR FORMULATION INTO END-USE PRODUCTS FOR THE FOLLOWING USES:

A. Outdoor tree fruit and nut crops

Almonds, apples, apricots, cherries, cherry nursery stock dip, citrus (nonbearing trees and nursery stock), filberts, macadamia nuts, nectarines, peaches, peach nursery stock dip, pears, pecans, plums, plum nursery stock dip, prunes, tea and walnuts.

B. Field and vegetable crops: Alfalfa grown for forage, artichokes, barley, beans(succulent and dry except lima), blueberries, broccoli, Brussels sprouts, cabbage, carrot, cauliflower, celery, collards, corn seed crop, corn(sweet corn fresh vegetable use only), cotton, cucumbers, eggplants, grapes, kale, lettuce, melons, mustard greens, oats, peas(succulent and seed), peppers, pineapples, potatoes, pumpkins, rapeseed, rye, safflower, spinach, squash(summer and winter), strawberries, sugar beets, sugar cane, sunflower, sweet potatoes, tobacco, tomatoes, turnip greens and wheat.

C. Ornamental plants trees, and shrubs: domestic outdoor use. dogwood, lilac, Douglas fir, pines (Austrian, Jack, Red, Scotch, White), Shade trees, Spruce and Taxus

Greenhouse use: Ornamental plants and tomatoes.

Organochlorine Pesticide
Solid AI 94% min
POISON XXX6
Marine Pollutant

REV. 7/95

