

11678-5

3/26/2002

ACCEPTED

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THIONEX ENDOSULFAN TECHNICAL

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg No. 11678-5

For The Manufacture of Insecticides and Acaricides Only

ACTIVE INGREDIENT:	% BY WT.
Endosulfan: (Hexachlorohexahydromethano-2,4,3-benzodioxathiepin 3-oxide)	95.0%
INERT INGREDIENTS:	5.0%
	TOTAL 100.0%



KEEP OUT OF REACH OF CHILDREN
DANGER-POISON



FIRST AID

- 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 or convulsing person.
- IF INHALED:**
 - Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- IF ON SKIN:**
 - Call a poison control center or doctor for treatment advice.
 - Take off contaminated clothing.
 - Rinse skin immediately with plenty of water for 15-20 minutes.
- IF IN EYES:**
 - Call a poison control center or doctor for treatment advice.
 - Hold eye open and rinse slowly and gently with water for 15-20 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. You may also contact 1-800-535-5053 for emergency medical treatment information.

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.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

DANGER-POISON

Fatal if swallowed, inhaled or absorbed through skin. Do not breathe 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 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.

NET WEIGHT: _____ POUND(S)

EPA Reg. No. 11678-05
EPA Est. No. 11678-ISR-002



MAKHTESHIM
A G A N
NORTH AMERICA

Manufactured by
Makhteshim Chemical Works, Ltd
c/o Makhteshim-Agan of North America, Inc
551 Fifth Avenue, Suite 110
New York, NY 1017

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, birds, and other wildlife. Do not discharge effluent containing this product directly 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 local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in tightly capped 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.

IN CASE OF SPILL: Avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

TO CONFINE SPILL: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

PESTICIDE 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 by use 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.

CONTAINER DISPOSAL: 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. Do not cut or weld metal containers.

FORMULATOR INFORMATION: Formulators using this product are responsible for obtaining EPA registration for their formulated products. Formulators are encouraged to contact Makhteshim Chemical Works, Ltd. for the Thionex Endosulfan Technical Bulletin, which contains the chemical and physical data for the technical.

THIS PRODUCT IS TO BE USED SOLELY FOR FORMULATION INTO end-use products for use on commercial agricultural crops and for outdoor commercial production of ornamental trees and shrubs. Do not use or formulate this product into any products in the form of a fogger, impregnated materials, insecticidal smoke, dust, pressurized liquid (i.e., spray cans-but not including EC or WP formulations applied by pump sprayers) or aerosol spray designed to automatically release the contents. The commercial use categories and formulation restrictions are described below.

DO NOT USE THIS PRODUCT TO FORMULATE END-USE PRODUCTS FOR:

- a) Any use in or around a structure used as a residence or domestic dwelling, or on any articles or areas associated with such structures (including household contents, home gardens and greenhouses), or;
- b) Any use in the form of a fogger, impregnated materials, insecticidal smoke, dust, pressurized liquid or spray, (i.e., spray cans-but not including EC or WP formulations applied by pump sprayers) or aerosol spray inside a commercial greenhouse, or public or private building or structure, (including recreational facilities, theaters, hotels, resorts, or other buildings used for public accommodation, or any other commercial, industrial, or institutional building), or on any articles or areas associated with such structures including building contents and landscaping (but not including outdoor commercial ornamental tree and shrub production areas).

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

- **Outdoor Fruit and Nut Crops:** Almonds, Apples, Apricots, Blueberries, Cherries, Cherry nursery stock dip, Citrus (non bearing tree and nursery stock), Filberts, Grapes, Nectarines, Peaches, Peach nursery stock dip, Pears, Pecans, Pineapples, Plums, Plum nursery stock dip, Prunes, Raspberries, Strawberries, Strawberries (dip application-Northwest Use Only), Walnuts.
- **Field and Vegetable Crops:** Barley, Beans (succulent and Dry, except Lima), Broccoli, Brussels sprouts, Cabbage, Carrots, Cauliflower, Celery, Collards, Corn seed crop, Corn (sweet corn, fresh vegetable use only), Cotton, Cucumbers, Eggplant, Kale, Lettuce, Melons (all), Mustard greens, Oats, Peas (succulent,

excludes seed crop), Peppers, Potatoes, Pumpkins, Rye, Spinach, Squash (summer and winter), Sweet potatoes, Tobacco, Tomatoes, Turnip greens, and Wheat.

- **Commercial Greenhouse Use:** Tomatoes.
- **Ornamental Trees and Shrubs (Commercially Grown Outdoors Only):** Domestic Outdoor Use; Dogwood, Lilac, Douglas fir, Pines (Austrian, Jack, Red, Scotch, White), Shade trees, Shrubs Spruce, Taxus.

WARRANTY STATEMENT

MAKHTESHIM CHEMICAL WORKS, LTD. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MAKHTESHIM CHEMICAL WORKS. In no case shall MAKHTESHIM CHEMICAL WORKS be liable for consequential, special or indirect damages resulting from the use, or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except as expressly provided herein, MAKHTESHIM CHEMICAL WORKS makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at MAKHTESHIM CHEMICAL WORKS' election, the replacement of this product.)

Thionex (endosulfan) Technical (11678-5)(EPA app 1-10-02)