

40285-17

9/17/2002

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U.S. ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF PESTICIDE PROGRAMS
1200 Pennsylvania Avenue N.W.
Washington, DC 20460-0001

EPA Reg. Number
40285-17

Date of Issuance
SEP 17 2002

Term of Issuance
Conditional

NOTICE OF PESTICIDE

Registration
 Reregistration
(under FIFRA, as amended)

Name of Pesticide Product
DEGESCH
MAGTOXIN® GRANULES

Name and Address of Registrant (include ZIP Code):

Degesch America, Inc
P.O. Box 116
Weyers Cave, VA 24486

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 (FIFRA).

Registration is in no way 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 covered 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 when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA Reg. No. on the label and applicator's manual to read "EPA Reg. No. 40285-17" before you release the product for shipment.

continued

Signature of Approving Official:

S. Oonnithan
Entomologist, Insecticide-Rodenticide Branch
Registration Division (7505C)

Date:

SEP 17 2002

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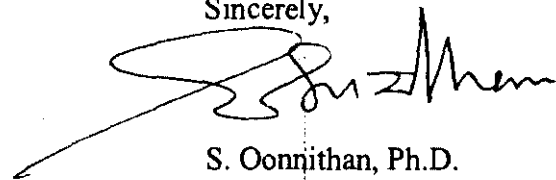
EPA Reg. No. 40285-17 contd ...

3. Submit one copy of the revised final printed label and applicator's manual for the record before you release the product for shipment.
4. Within three months from the date of this registration, you must submit five (5) copies of revised labeling and applicator's manual to comply with the Memorandum of Agreement Between The U. S. Environmental Protection Agency and Signatory Registrants of Phosphine Based Fumigants dated December 4, 2000.

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

A stamped copy of the draft label and Applicators Manual are enclosed for your records. Should you have any questions, do not hesitate to contact me at 703-605-0368.

Sincerely,



S. Oonithan, Ph.D.
Entomologist
Insecticide Rodenticide Branch
Registration Division (7505C)

Encl.

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(CENTER PANEL)

REVISED DRAFT 8/21/01

**RESTRICTED USE PESTICIDE
DUE TO ACUTE INHALATION TOXICITY OF HIGHLY
TOXIC HYDROGEN PHOSPHIDE (PHOSPHINE PH₃) GAS**

For retail sale to and use only by certified applicators for those uses covered by the applicator's certification or persons trained in accordance with the Applicator's Manual working under the direct supervision and in the physical presence of the certified applicator. Physical presence means on site or on the premises. Read and follow the label and the DEGESCH America, Inc. Applicator's Manual which contains complete instructions for the safe use of this pesticide.

**ACCEPTED
with COMMENTS
In EPA Letter Dated:
SEP 17 2002**

(DEGESCH LOGO)
DEGESCH MAGTOXIN® GRANULES

**ONLY FOR USE WITH A DEGESCH GENERATOR TO PRODUCE PHOSPHINE GAS
FOR CONTROL OF PESTS OF STORED PRODUCTS**

Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under FIFRA 40285-17
94.6%
5.4%

Active Ingredient: Magnesium Phosphide
Inert Ingredients.....

KEEP OUT OF REACH OF CHILDREN

(skull & crossbones)(red)

(skull & crossbones)(red)

DANGER - POISON - PELIGRO (red)

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.

(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

STATEMENT OF PRACTICAL TREATMENT

Symptoms of overexposure are headache, dizziness, nausea, difficult breathing, vomiting and diarrhea. In all cases of overexposure get medical attention immediately. Take victim to a doctor or emergency treatment facility.

If the gas or powder from Magtoxin® Granules or gas from spent slurry is inhaled:

Get exposed person to fresh air. Keep warm and make sure person can breathe freely. If breathing has stopped, give artificial respiration by mouth-to-mouth or other means of resuscitation. Do not give anything by mouth to an unconscious person.

If Magtoxin® Granules or powder is swallowed:

Drink or administer one or two glasses of water and induce vomiting by touching back of throat with finger, or if available, syrup of ipecac. Do not give anything by mouth if victim is unconscious or not alert.

If Magtoxin® Granules or powder get on skin or clothing:

Brush or shake material off clothes and shoes in a well ventilated area. Allow clothes to aerate in a ventilated area prior to laundering. Do not leave contaminated clothing in occupied and/or confined areas such as automobiles, vans, motel rooms, etc. Wash contaminated skin thoroughly with soap and water.

If powder from Magtoxin® Granules or spent slurry gets in eyes:

Flush with plenty of water. Get medical attention.

See left side panel for additional Precautionary Statements.

Manufactured by:
DEGESCH DE CHILE LTDA
Camino Antiguo a Valparaiso
No. 1321, Padre Hurtado
Santiago, Chile

Net Contents:
850g of GRANULES

EPA Est. No. 40285-CH-01
EPA Reg. No. 40285-RT

Distributed by:
DEGESCH AMERICA, INC.
P. O. Box 116
Weyers Cave, VA 24486
Tel. 540-234-9281

(LEFT PANEL)

REVISED DRAFT 8/21/01

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER: Magnesium phosphide from DEGESCH Magtoxin® GRANULES or dust may be fatal if swallowed. Do not get in eyes, on skin or on clothing. Do not eat, drink or smoke while handling magnesium phosphide fumigants. If a sealed container is opened, or if the material comes into contact with moisture, water or acids, these products will release hydrogen phosphide (phosphine, PH₃) which is an extremely toxic gas. If a garlic odor is detected, refer to the Industrial Hygiene Monitoring section of the Applicator's Manual for appropriate monitoring procedures. Pure hydrogen phosphide gas is odorless; the garlic odor is due to a contaminant. Since the odor of hydrogen phosphide may not be detected under some circumstances, the absence of a garlic odor does not mean that dangerous levels of hydrogen phosphide gas are absent. Observe proper reentry procedures specified in the Applicator's Manual.

NOTE TO PHYSICIAN

Magnesium phosphide GRANULES, partially spent dust or spent slurry react with moisture from the air, acids and many other liquids to release hydrogen phosphide (phosphine, PH₃) gas. Mild exposure by inhalation causes malaise (indefinite feeling of sickness), ringing in the ears, fatigue, nausea and pressure in the chest which is relieved by removal to fresh air. Moderate poisoning causes weakness, vomiting, pain just above the stomach, chest pain, diarrhea and dyspnea (difficulty in breathing). Symptoms of severe poisoning may occur within a few hours to several days resulting in pulmonary edema (fluid in lungs) and may lead to dizziness, cyanosis (blue or purple skin color), unconsciousness, and death.

In sufficient quantity, phosphine affects the liver, kidneys, lungs, nervous system and circulatory system. Inhalation can cause lung edema (fluid in lungs) and hyperemia (excess of blood in a body part), small perivascular brain hemorrhages and brain edema (fluid in brain). Ingestion can cause lung and brain symptoms but damage to the viscera (body cavity organs) is more common. Phosphine poisoning may result in (1) pulmonary edema, (2) liver elevated serum GOT, LDH and alkaline phosphatase, reduced prothrombin, hemorrhage and jaundice (yellow skin color) and (3) kidney hematuria (blood in urine) and anuria (abnormal or lack of urination). Pathology is characteristic of hypoxia (oxygen deficiency in body tissue). Frequent exposure to concentrations above permissible levels over a period of days or weeks may cause poisoning. Treatment is symptomatic.

PHYSICAL AND CHEMICAL HAZARDS

Magnesium phosphide in GRANULES, partially spent dust and left over slurry, will release hydrogen phosphide if exposed to moisture from the air or if it comes into contact with water, acids and many other liquids. Magnesium phosphide is considerably more reactive than aluminum phosphide and will liberate gas more rapidly. This is particularly true in the presence of liquid water and at higher temperatures. Since hydrogen phosphide may ignite spontaneously at levels above its lower flammable limit of 1.8% v/v, it is important not to exceed this concentration.

It is preferable to open containers of magnesium phosphide products in open air as under certain conditions, they may flash upon opening. Containers may also be opened near a fan or other appropriate ventilation which will rapidly exhaust contaminated air. When opening flasks of **Magtoxin® GRANULES**, point the flask away from the face and body and tear or cut open the far end. Although the chances for a flash are very remote, never open these containers in a flammable atmosphere. These precautions will also reduce the fumigator's exposure to hydrogen phosphide.

Pure phosphine (hydrogen phosphide) gas is practically insoluble in water, fats and oils, and is stable at normal fumigation temperatures. However, it may react with certain metals and cause corrosion, especially at higher temperatures and relative humidities. Metals such as copper, brass and other copper alloys, and precious metals such as gold and silver are susceptible to corrosion by phosphine. Thus, small electric motors, smoke detectors, brass sprinkler heads, batteries and battery chargers, fork lifts, temperature monitoring systems, switching gears, communication devices, computers, calculators and other electrical equipment should be protected or removed before fumigation. Hydrogen phosphide will also react with certain metallic salts and, therefore, sensitive items such as photographic film, some inorganic pigments, etc., should not be exposed.

DIRECTIONS FOR USE

THIS PRODUCT IS ACCOMPANIED BY AN APPROVED APPLICATOR'S MANUAL. READ AND UNDERSTAND THE ENTIRE LABELING AND APPLICATOR'S MANUAL. ALL PARTS OF THE LABELING ARE EQUALLY IMPORTANT FOR SAFE AND EFFECTIVE USE OF THIS PRODUCT. CALL DEGESCH AMERICA, INC. IF YOU HAVE ANY QUESTIONS OR DO NOT UNDERSTAND ANY PART OF THE LABELING OR APPLICATOR'S MANUAL. REFER TO THE APPLICATOR'S MANUAL FOR DETAILED PRECAUTIONS, RECOMMENDATIONS AND DIRECTIONS FOR USE.

FUMIGATION SITES AND PESTS CONTROLLED

Magtoxin® GRANULES may only be used with the DEGESCH Generator to produce phosphine gas for the control of insects and rodent pests in certain agricultural commodities and their storages. The Generator may only be operated by certified fumigators who have been trained and certified by Degesch America or its approved representatives. The **Magtoxin® GRANULES/DEGESCH** Generator System is not for use in the fumigation of ships, barges or the intransit fumigation of railcars. Refer to the Applicator's Manual for detailed lists of fumigation sites and pests.

STORAGE INSTRUCTIONS

1. Store DEGESCH **Magtoxin® GRANULES** in a dry, well ventilated area away from heat, under lock and key. Post as a pesticide storage area. Do not contaminate water, food or feed by storing pesticides in the same areas used to store these commodities.
2. Do not store in buildings where humans or domestic animals reside. Keep out of reach of children.
3. DEGESCH **Magtoxin® GRANULES** are supplied in gas-tight, resealable aluminum flasks. Do not expose the product to atmospheric moisture any longer than is necessary and seal tightly before returning flasks to storage.
4. The shelf life of **GRANULES** is virtually unlimited as long as the containers are tightly sealed.

DISPOSAL INSTRUCTIONS

Do not contaminate water, food or feed by storage or disposal. Unreacted or partially reacted **Magtoxin® GRANULES** are acutely hazardous. Improper disposal of excess pesticide 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. For specific instructions, see Spill and Leak Procedures in the Applicator's Manual. Some local and state waste disposal regulations may vary from the following recommendations. Disposal procedures should be reviewed by appropriate authorities to ensure compliance with local regulations. Contact your state Pesticide or Environmental Control Agency or Hazardous Waste Specialist at the nearest EPA Regional Office for guidance. Dispose of containers in a sanitary landfill or by other procedures approved by state and local authorities. If properly exposed during the fumigation period, spent **GRANULES** will contain virtually no unreacted magnesium phosphide. This will be a nonhazardous waste. However, incompletely exposed **GRANULES** will require special care for disposal.

SPILL AND LEAK PROCEDURES

General Precautions and Directions

A spill, other than incidental to application or normal handling, may produce high levels of gas and, therefore, attending personnel must wear SCBA or its equivalent when the concentration of hydrogen phosphide gas is unknown. Other NIOSH/MSHA approved respiratory protection may be worn if the concentration is known. Do **not** use water at any time to clean up a spill of DEGESCH **Magtoxin® GRANULES**. Water in contact with unreacted metal phosphides will result in a toxic and/or fire hazard. Wear dry gloves of cotton or other material when handling metal phosphides. Return all intact aluminum flasks of **Magtoxin® GRANULES** to original cases or other packaging which has been suitably constructed and marked according to DOT regulations. Notify consignee and shipper of damaged cases. If the flasks have been punctured or damaged so as to leak, they may be temporarily repaired with aluminum tape. Transport the damaged flasks, thus sealed, to an area suitable for pesticide storage for inspection. **Caution:** The punctured flasks may flash upon opening at some later time. Refer to the Applicator's Manual for more detailed Spill and Leak procedures. Further instructions and recommendations may be obtained, if required, from DEGESCH America, Inc.

Warranty: Seller warrants that the product conforms to its chemical description and when used according to label directions under normal conditions of use, it is reasonably fit for the purposes stated on the label. Seller makes no other warranty either express or implied, and buyer assumes all risk should the product be used contrary to label instructions.