

# GAMMASAN<sup>®</sup>

A Seed Treatment Powder Containing Lindane and Captan

A Dual Purpose Seed Treatment for the Protection of Seeds and Emerging Seedlings Against Flea Beetles, Pre-emergence Damping Off and Seed Decay of Rapeseed, Mustard, Cabbage and Kale

For the Protection of Seeds and Emerging Seedlings Only

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAR 2 1984

Insecticide, Fungicide, and Herbicide Act  
registered under EPA Reg. No. 8203-1

**WARNING**  
KEEP OUT OF REACH OF CHILDREN



EPA Reg. No. 8203-1

#### ACTIVE INGREDIENTS

Gamma isomer of benzene hexachloride from lindane 75%  
Captan N (1-trichloromethylthio-2,4-cyclohexene-1,2-dicarboximide) 10%

#### INERT INGREDIENTS

15%

100%

#### DIRECTIONS

Treat up to 50 lbs of seed at a time in an end-over-end drum type of seed treator, or a cement mixer, or shair 4 lbs of seed in a large tin

Apply GAMMASAN at 1/2 ounce per pound of seed. In areas of heavy flea beetle infestation this rate may be increased to 1 1/2 ounces per pound of seed by mixing 1/2 fluid ounce mineral oil or linseed oil with the seed first and then applying the GAMMASAN

**IMPORTANT** The higher rates should be used only in planting equipment that can be satisfactorily adjusted to compensate for the increased coating on the seed

#### WARNING

Do not use on seeds other than Rapeseed, Mustard, Cabbage and Kale.  
Do not plant treated seeds in soil which will be used for edible root crops during the same season or the following season.  
Treat only those seeds needed for immediate use. Do not store treated seeds.

#### WARNING

May be fatal if swallowed. May be absorbed through the skin. Do not handle GAMMASAN or GAMMASAN treated seeds with bare hands. Do not breathe dust. Wear a dust mask when using GAMMASAN. Avoid contact with the skin and eyes. Wash thoroughly after handling.

Applicators who apply this product manually or without the use of a drum type seed treator should wear the following protective clothing during the application: long sleeves, long pants, gloves, and a disposable paper dust mask which covers at least the entire front of the face.

The product should be applied in a well-ventilated place.

Avoid contamination of feed and foodstuffs. Treated seed exposed on soil surface will be hazardous to birds. This product is toxic to fish and wildlife.

Do not use treated seed as food or feed. Do not sell to animals.

Do not contaminate water by cleaning of equipment or disposal of wastes.

Do not reuse empty container. Destroy it by burying with waste or burning. Stay away from smoke or fumes.

#### NOTICE

Seller's guarantee shall be limited to the terms of the label and subject thereto the buyer assumes the risk to person or property arising out of use or handling and accepts the product on these conditions.

CHIPMAN INC.

STONE CREEK, ONTARIO  
CANADA

EPA Est. 8203 CN 1

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BEST DOCUMENT AVAILABLE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PERSISTENT AND TOXIC SUBSTANCES

43  
11/15/83  
MAM

Mr. F. Bruce Jones  
Chipman Inc.  
c/o ICI Americas Inc.  
Registration Section, Ag. Chem Div.  
Wilmington, DE 19887

300/118120  
11/15/83

Dear Mr. Jones:

Subject: Lindane RPAR  
Gammasan  
EPA Reg. No.: 8203-1  
Appl. Date: November 15, 1983

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. A STATEMENT OF PRACTICAL TREATMENT must be added to the labeling. We suggest the following statement, however, if your toxicological data suggests otherwise, please submit a draft STATEMENT OF PRACTICAL TREATMENT for prior approval:

"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 throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled- Remove victim to fresh air. Apply artificial respiration if indicated.

If on skin- Remove contaminated clothing and wash affected area with soap and water.

If in eyes- Flush eyes with plenty of water. Call a physician if irritation persists."

2. Move the "KEEP OUT OF REACH OF CHILDREN" to a position immediately above the front panel signal word.
3. Increase the type size of the "KEEP OUT OF REACH OF CHILDREN" to a minimum of 12 points.
4. Change the heading "DIRECTIONS" to "DIRECTIONS FOR USE".
5. Immediately following the heading "DIRECTIONS FOR USE" insert

the following:

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

6. Immediately preceding "WARNING May be fatal if swallowed..." insert the following heading and subheading:

"PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS"

7. Move "Avoid contamination of feed and foodstuffs" to the "HAZARDS TO HUMANS..." section.
8. Insert a heading "ENVIRONMENTAL HAZARDS" and follow with:

"This product is toxic to fish birds and other wildlife. Do not contaminate water by cleaning of equipment or disposal of wastes."
9. This should be followed by:

"Treated seed must not be used for or mixed with food or animal feed, or processed for oil. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting time."

"Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of all excess treated seeds by burial away from bodies of water."
10. Delete "Do not reuse empty container...smoke or fumes" and insert an appropriate "STORAGE AND DISPOSAL" statement using PR Notice 83-3

Submit five (5) copies of your revised final printed labeling before you release the product for shipment with the amended labeling.

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

If you hold a Federal registration, a supplemental registration, or a Special Local Needs registration, you may continue to produce new stocks of such products, using current labeling, until April 1, 1984. After that date, all remaining inventories of affected products will fall under the Existing Stocks provisions stated in our letter of October 28, 1983.

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767C)

Enclosure