

PM 15 REG# 100-524

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ACCEPTED

CIBA-GEIGY 11 1990

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 100-524

# D·z·n

## diazinon MG 87%

## Stabilized 87% diazinon

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

**55 Gallons**  
U. S. Standard Measure

An Insecticide for  
Formulating Use Only  
into Registered End-  
Use Insecticides

KEEP OUT OF REACH OF CHILDREN.

### WARNING

See additional precautionary statements at end of label.

See directions for use on panel at right.

Active Ingredient:	
Diazinon: O, O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate .....	87.0%
Inert Ingredients:	13.0%
Total:	100.0%

EPA Reg. No. 100-524

EPA Est. 100-AL-1

Control No. **07070**

**DIAZINON MIXTURE**

**ORM-A**

**RQ**

**NA 2783**

## D-z-n® diazinon MG87%

### **DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY**

**IMPORTANT:** Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

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#### **Conditions of Sale and Warranty**

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The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, 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 CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

**No end use of this product other than formulation is intended or implied by the above Conditions of Sale and Warranty.**

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#### **DIRECTIONS FOR USE**

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

Formulators using this product are responsible for obtaining EPA registration of their formulated products.

This pesticide may be used only for the formulation of end-use insecticide for use:

**on the following terrestrial food crops:**

almonds, apples, apricots, beans (succulent only) (including seed treatment), beets, blackberries, boysenberries, broccoli, Brussels sprouts, cabbage, Chinese cabbage (bok choy), cantaloupe, carrots, Casaba melons, cauliflower, celery, cherries, cole crops, collards, red chicory (radicchio), corn (including seed treatment), cranberries, Crenshaw melons, cucumbers, dewberries, endive (escarole), eggplant, ginseng, grapes, guar, honeydew melons, hops, kale, lettuce, lima beans (succulent only), loganberries, melons, muskmelons, mustard greens, Chinese mustard, nectarines, onions, parsley, parsnips, peaches, pears, peas (succulent only) (including seed treatment), peppers, Persian melons, pineapples, plums, potatoes, prunes, radishes, Chinese radishes, raspberries, rutabagas, snap beans, spinach, squash, strawberries, sugar beets, sugarcane, sweet potatoes, Swiss chard, tomatoes, turnips (including tops), walnuts, watermelons, and zucchini.

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## D·z·n® diazinon MG87%

### **In terrestrial non-crop areas including:**

Uncultivated non-agricultural areas (including barrier strips, ditch banks, noncrop areas, roadsides and wastelands),

### **Inside:**

mushroom houses

### **on:**

ornamentals (including greenhouse) and lawns (excluding golf courses and sod farms),

### **Inside and outside:**

domestic dwellings, commercial buildings, food/feed handling establishments, and animal quarters (excluding dairy barns, milk rooms, and poultry houses),

### **and on the following animals:**

cattle (non-lactating), sheep, cats, and dogs.

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### **Chemical and Physical Properties**

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Refer to: "Technical Bulletin - Diazinon Insecticide". Contact your CIBA-GEIGY Specialty Sales Representative or the CIBA-GEIGY Communications Department in Greensboro, North Carolina for a copy of this document.

### **Storage and Disposal**

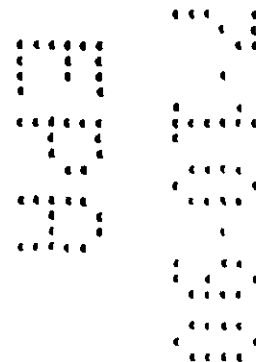
Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

**Pesticide:** Pesticide wastes are toxic. Improper disposal is a violation of federal law. If pesticide or equipment rinsates cannot be used according to formulation instructions or chemically reprocessed, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Container:** Triple rinse or equivalent. Then offer for return to manufacturer, or recycle or recondition, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**Note:** For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill or accident, contact CIBA-GEIGY for assistance at 1-800-888-8372 day or night.

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## Precautionary Statements

### Hazards to Humans and Domestic Animals

#### WARNING

May be fatal if swallowed. May be absorbed through the skin. Do not breathe vapors or spray mist. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling and before smoking or eating. Avoid contamination of food and feed.

#### Statement of Practical Treatment

**If swallowed:** Call a physician or Poison Control Center immediately. Drink a large quantity of water and induce vomiting by touching back of throat with finger. Continue until vomit fluid is clear. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

**If on skin:** Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Contact a physician or Poison Control Center if symptoms of poisoning develop.

**If in eyes:** Immediately flush eyes with plenty of water, and get medical attention.

**If inhaled:** Move to fresh air. If not breathing, apply artificial respiration, and get medical attention immediately. Do not apply mouth-to-mouth resuscitation if exposure was by swallowing.

**Note to Physician:** Diazinon is a cholinesterase inhibitor. If symptoms of cholinesterase inhibition are present, atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

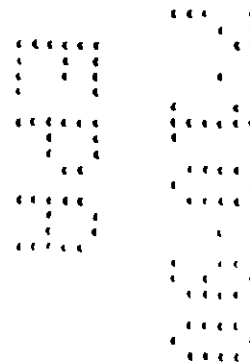
#### Environmental Hazards

This product is highly toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your Regional Office of the Environmental Protection Agency.

D·z·n<sup>®</sup> trademark of CIBA-GEIGY for diazinon

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419  
CGA 1L116H 050



TECHNICAL BULLETIN  
DIAZINON INSECTICIDE

This Technical Bulletin includes physical and chemical property information for D·z·n<sup>®</sup> diazinon MG 87%, formerly called Stabilized Diazinon MG-8 (EPA Reg. No. 100-524), D·z·n<sup>®</sup> MG-2 (EPA Reg. No. 100-652), and D·z·n MG 5% (EPA Reg. No. 100-714).

I. D·Z·N DIAZINON MG-87% (Stabilized 87% diazinon)

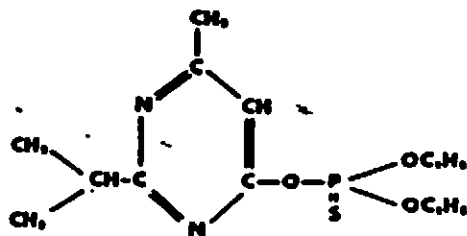
Chemical Name: O,O-Diethyl-O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate

Common Name: Diazinon

Trade Name: D·z·n<sup>®</sup> diazinon MG 87% (formerly called Stabilized Diazinon MG-8)

EPA Reg. No. 100-524

Chemical Structure:



Chemical Abstract Number: 333-41-5

Empirical Formula: C<sub>12</sub>H<sub>21</sub>N<sub>2</sub>O<sub>3</sub>PS

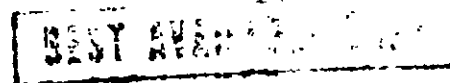
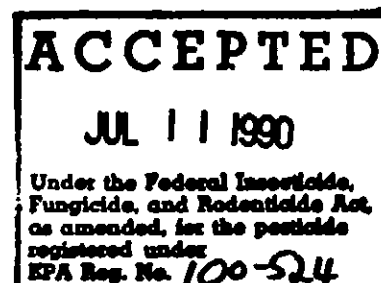
Molecular Weight: 304.3

Color: Light tan to brown

Physical State: Liquid

Odor: Garlic-like

Density: 1.096 g/ml typical at 20°C



pH: 4.5 to 6.5 at 25°C

Oxidizing or Reducing Action: None

Flammability: Flash Point 173°C

Viscosity: 14 Centipoises at 25°C

Miscibility: Miscible with organic solvents

DOT Regulations: This material is not classified

NFPA Codes: Classified as a Class IIIB combustible liquid

Storage Stability: Formulation unopened has a 3-year minimum shelf life

Solubility of Technical Diazinon: Water 60 ppm at 20± 2°C

Vapor Pressure of Technical Diazinon: 7.3 x 10<sup>-5</sup> mmHg at 20°C  
1.3 x 10<sup>-4</sup> mmHg at 25°C  
2.4 x 10<sup>-4</sup> mmHg at 30°C  
7.3 x 10<sup>-4</sup> mmHg at 40°C

Boiling Point of Technical Diazinon: 117-120°C @ 50 mmHg

Dissociation Constant of Technical Diazinon: pKa = 2.60 at 20°C

Octanol/Water Partition Coefficient of Technical Diazinon:

∴ Log P = 3.30

Corrosion Characteristics: Carbon steel @ 50°C  
Corrosion rate: 0.00588 mil/yr  
Note: No corrosion or pitting detected

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CIBA-GEIGY

RECEIVED  
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Fungicide, and Rodenticide Act  
as amended, for the pesticide  
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## diazinon MG 87%

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**55 Gallons**  
U. S. Standard Measure

**An Insecticide for  
Formulating Use Only  
into Registered End-  
Use Insecticides**

KEEP OUT OF REACH OF CHILDREN.

### WARNING

See additional precautionary state-  
ments at end of label.

See directions for use on panel at right.

<b>Active Ingredient:</b>	
Diazinon: O, O-Diethyl O-(2-isopropyl- 6-methyl-4-pyrimidinyl) phosphorothioate . . . . .	87.0%
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<b>Inert Ingredients:</b>	13.0%
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<b>Total:</b>	100.0%

EPA Reg. No. 100-524

EPA Est. 100-AL-1

Control No. **07070**

**DIAZINON MIXTURE**

**ORM-A** **RQ**

**NA 2783**

D-z-n® diazinon MG87%

2 2 4

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**Inside:**

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**on:**

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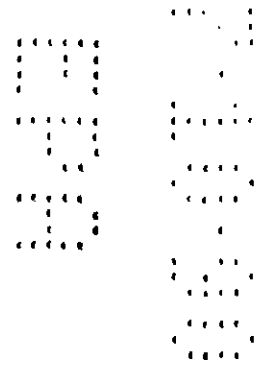
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