

# Fact Sheet #12 Pesticides and Chemicals



***When using pesticides, the label is the law – make sure you read it!***

Pesticides are registered with the US [Environmental Protection Agency](#) and the Commonwealth of Massachusetts. They may be classified for general use, restricted use, state limited use, or special local need [only allowed in certain situations].

Always use pesticides according to the directions on the label – read the label when choosing a pesticide and before mixing, applying, storing, or disposing of the product. See the next page for an example of a pesticide label. Read this [brochure](#) for more on pesticide labels.

## **Pesticide labels include:**

- Brand name, type of pesticide, and danger level
- Active chemical ingredients
- Instructions for use such as how and when to mix and apply the product, what protective equipment to wear, and emergency/first aid procedures
- Storage and disposal instructions
- Time before you can go back into the field [re-entry interval] and days you must wait before harvesting [days to harvest]
- Name and address of manufacturer
- A statement telling you if the product is a restricted use pesticide

# Example of a Pesticide Label

**7 RESTRICTED USE PESTICIDE**  
 (GROUND AND SURFACE WATER CONCERNS)  
 FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

**8 Bug-B-Ded 6EC Insecticide**

**9 Active Ingredient:**  
 Killazine, (2,4,6 diamizine) ..... 37.4%  
**Inert Ingredients:**..... 62.6%  
**Total**..... 100.00%  
 1 gal. contains 6.0 lb. killazine  
 2.5 GALLONS

**10 U.S. Standard Measure**  
 EPA Reg. No. 100-358

**11 ESP Est. 34704-MI-1**

**12 Statement of Practical Treatment**

**13 If swallowed, DO NOT induce vomiting.** Call a physician or Poison Control Center immediately.  
**If in eyes, flush with plenty of water.**  
**If on skin, wash with plenty of soap and water.**  
**NOTE TO PHYSICIAN:** Vomiting should only be induced under professional supervision.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. **Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.** PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and the involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

**Directions for Use**

**17** It is a violation of federal law to use this product in a manner inconsistent with its labeling.  
**Cool-season turf:** Chinch bugs, fleas and mole crickets: apply 1 ounce product per 1,000 square feet.  
**Warm-season turf:** White grubs: apply 2 ounces product per 1,000 sq. ft. and water with supplemental irrigation.  
 Allow at least 10 days before making a second application.

**1** Keep out of the reach of children.

**2 CAUTION**

**4** Harmful if swallowed or absorbed through the skin. Causes minor skin irritation.

**5 Personal Protection Equipment (PPE)**

Applicators and handlers must wear:

- Long-sleeved shirts and long pants
- Chemical-resistant gloves
- Shoes plus socks

**6 Environmental Hazards**  
 This product is toxic to fish. Do not apply directly to water or to areas where surface water is present.

**15 Physical or Chemical Hazards**  
 Do not use or store near heat or open flame.

**Storage and Disposal**  
**Storage:** Do not contaminate water, food or feed by storage or disposal. Store at temperatures above 32 degrees F.

**18 Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.  
**Container Disposal:** Triple rinse (or equivalent). The puncture container and dispose of in a sanitary landfill or incinerate.

**16 Limited Warranty and Disclaimer**  
 The manufacturer warrants that this product conforms to the chemical description on the label; that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; that the directions, warnings, and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals, and to plants, and of residues on food crops and upon reports of field experience.

**13 BUGS-R-US Inc.**  
 1468 North-South Expressway  
 P.O. Box 5600  
 Research Triangle Park, NC 12345

Source: University of Missouri Extension

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Read the entire guide at [www.nesfp.org/massfarmguide](http://www.nesfp.org/massfarmguide). Contact us at [www.nesfp.org](http://www.nesfp.org), [nesfp@tufts.edu](mailto:nesfp@tufts.edu), or 978-654-6745.

## Groundwater Recharge Area

If your farm is located in a primary groundwater recharge (Zone II) areas, you may need to follow special rules when using fertilizers and pesticides. In order to apply pesticides in these areas, the Massachusetts Department of Agricultural Resources (MDAR) must first approve an integrated pest management (IPM) program and a pesticide management plan for your operations. To find out if your farm is located within a Zone II, check this [map](#) or contact your local [DEP office](#).

## Certification to Apply Pesticides

People that apply or supervise the application of restricted use pesticides must be licensed or certified at least every three years. This requires passing an exam, taking classes periodically, reporting pesticide use to MDAR, and having insurance coverage. For more information on pesticide applicator licensing and certification, see the MDAR Pesticide Bureau [website](#). Chemical fertilizers should be purchased from a licensed distributor, but you do not need a permit to use them.

## Storing Pesticides

Pesticides and fertilizers should be stored separately. Pesticides should be separated by type - insecticides, weed killers, fungicides- to avoid cross contamination and possible accidental misuse. Flammable and non-flammable pesticides should be stored in separate areas. Pesticides should never be stored alongside food, feed or seed. The storage area should be locked at all times, if possible, and identified as a place of pesticide storage. The storage area should be well ventilated either by windows or a fan to avoid the build up of fumes.

## A Note about Organic

It is important to remember that organic chemical inputs are still chemicals. It is just as critical to follow rules and instructions for organic materials as it is for non-organic ones.