

A BIOLOGICAL INSECTICIDE FOR GRASSHOPPERS

SEMASPORE BAIT™



Active Ingredient: *Nosema locustae* 0.05%
 Other Ingredients: 99.95%
 Total: 100.00%
 (Contains 1.0×10^9 viable *Nosema* spores/lb)

KEEP OUT OF REACH OF CHILDREN
 (See Back Panel for Additional Precautionary Statements)

• Listed by the Organic Materials
 Review Institute (OMRI)

PLANET NATURAL



for use in Organic
 Production

4/21/04

OMRI

Under the OMRI
 Fungicide Listed
 as an OMRI Listed Fungicide
 registered under
 EPA Reg. No. 54735-5

EPA Est. #54735-MT-3
 EPA Reg. #54735-5

Net Weight: 1 lb.

1612 Gold Ave.
 Bozeman, MT 59715
 (406) 587-5891

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (& DOMESTIC ANIMALS)

PERSONAL PROTECTIVE EQUIPMENT

Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, P-95 or R-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Applicators and handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Wash and keep PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

STORAGE AND DISPOSAL

Storage: Store in a cool, dry shaded area in original container or refrigerate. If refrigerated continuously at 40 degree F, add 30 days to expiration date. If frozen continuously at 15 degree F, add 60 days to expiration date.
Disposal: Do not reuse empty container. Dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers should be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Hand broadcast or use a "Whirly Bird" spreader to apply 1 lb. Semaspore Bait per acre when grasshoppers are nymphs (majority 1/2" - 3/4" size). Treat rangeland or cropland hatching beds (grassy areas of unbroken ground) where nymphs are seen. Do not apply if rain is expected within 8 hours.

USE BEFORE EXPIRATION DATE (Stamped On Container Lid)

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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 that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, Waterproof Gloves, Shoes and Socks.

HOW SEMASPORE BAIT WORKS

Semaspore Bait contains *Nosema locustae*, a natural pathogen to grasshoppers which infects most species after consumption of the bran bait (they consume best on warm, bright mornings). Grasshoppers first weaken, moving slower and reducing consumption (and damage) and begin to die in about 2 - 3 weeks as the disease spores multiply in them. Uninfected grasshoppers cannibalize those infected, receiving a larger initial dose, and the disease spreads. You will not see many dead grasshoppers because of cannibalism. However, slow moving, weakened grasshoppers will be seen. Any eggs laid are fewer, weakened and may be infected. Treating mostly 2nd and 3rd instar nymphs (1/2 - 3/4 inch, some with embryonic wings) initially, causes them to weaken and/or die before maturing and consuming more. However, enough survive infected to transmit the disease. Third instars are generally in hatching beds (grassy areas of unbroken ground); later, grasshoppers migrate into growing areas. Eight grasshoppers or more per square yard are important and above 25 is a serious infestation for which multiple Semaspore Bait treatments and/or a chemical bait (EcoBran) have been used for a quick kill. Treated buffer zones around growing areas have also been used, to reduce grasshopper migration.

NOTICE OF WARRANTY

No warranty is expressed or implied concerning this product except for that on the label.



Organic Gardening Supplies & More!
<http://www.planetnatural.com/>