

Rig # 54735-3
PM 17

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BEST AVAILABLE COPY

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
CAUTION**

Avoid inhalation or contact with eyes
or open wounds

IF IN EYES - Flush with plenty of water, get medical
attention if irritation occurs.

IF ON SKIN OR CLOTHING - Remove
contaminated clothing; wash skin with soap
and water.

**DIRECTIONS FOR USE
GENERAL CLASSIFICATION**

IT IS A VIOLATION OF FEDERAL LAW TO USE
THIS PRODUCT IN A MANNER INCONSISTENT
WITH ITS LABELING.

Mix this container (1 pint) with 50 lbs. of wheat bran (see
supplemental instructions). Apply 1 lb. bran per acre
when grasshoppers are still nymphs. Treat rangeland or
cropland where nymphs are developing.

SEMASPORE TM

A BIOLOGICAL INSECTICIDE FOR
GRASSHOPPERS
CONTAINS VIABLE SPORES OF
NOSEMA LOCUSTAE

ACTIVE INGREDIENT

Nosema locustae.....0.05%
Inert ingredients.....99.95%
(minimum of 50 billion spores)

mfg by
BOZEMAN BIO-TECH
1612 Gold Ave.
Box 3146
Bozeman, MT 59712

Establishment no. 54735-MT-001 Batch no. _____
EPA Registration no. 54735-3
Net weight 1 lb.

**NO WARRANTY IS EXPRESSED OR IMPLIED
CONCERNING THIS PRODUCT EXCEPT FOR
THAT ON THE LABEL.**

KEEP OUT OF REACH OF CHILDREN

JUN 10 1987

EPA REGISTRATION NO. 54735-3

STORAGE AND DISPOSAL

DISPOSAL - Do not reuse empty container. Trip
rinse (or equivalent). Then offer for recycling or
reconditioning, or puncture, wrap, and dispose of in
sanitary landfill, or incineration, or, if allowed by state
and local authorities, by burning. If burned, stay out of
smoke.

STORAGE - Store frozen in original sealed container
until use to maintain spore viability. Do not refreeze
partial container. Use bait within 2 weeks after thawing

PROHIBITED - Do not contaminate food or feed
storage or disposal of bait. Open dumping is prohibited

SEMASPORE
Bozeman Bio-Tech
P. O. Box 3146
Bozeman, MT 59772
(406) 587-5891

RATE:

Apply contents of this container to 50 pounds of wheat bran. Apply 1 pound of wheat bran per acre. **DO NOT DILUTE.**

DIRECTIONS FOR USE:

- Keep concentrate frozen until ready for use.
- Add 1 tablespoon of sugar to the container, and shake until it dissolves. Sugar sticks the spores to the bran.
- Shake continually during formulation to keep spores from settling out.
- Place 50 pounds of large flake wheat bran into a cement mixer or other mixing device. Slowly spray the NOSEMA solution from a sprayer onto the bran as it is turning. Apply the contents of this container (1 pint) onto 50 pounds of bran. Complete, uniform treatment of the bran is necessary for effective grasshopper control.

APPLICATION:

- Calibrate applicator to deliver 1 pound of bran per acre.
- IMPORTANT: treat before grasshoppers are full grown. Young hoppers, or nymphs, do not have wings.
- Treat when no rain is expected for 1-2 days
- Treat rangeland, fence rows, road ditches, or infested areas in cropland.

STORAGE:

- SEMASPORE can be stored for up to 3 years if kept frozen but will begin to slowly deteriorate 2 weeks after thawing.
- Apply bait as soon as possible after mixing. If it cannot be applied immediately, it may be stored for up to 9 weeks in a cool, dry, shaded location.

GENERAL INFORMATION:

The active ingredient in SEMASPORE is a protozoan, Nosema locustae. It occurs naturally in the field in some locations, but usually is at levels too low to be effective. SEMASPORE contains spores recovered from grasshoppers infected in the laboratory. USDA information indicates that 1 billion spores/acre gives effective control of young grasshoppers. Some kinds of grasshoppers will die in a few days after infection, while others show no effects until a week or so.

Nosema infects the fat bodies of grasshoppers. Sick grasshoppers move slower, feed less, and finally die. These dead grasshoppers commonly are eaten by survivors, and the disease continues. Some reports indicate surviving infected female grasshoppers will pass the disease into the eggs, but this has not been proven conclusively; We cannot guarantee effective control on following years.

Grasshoppers are attracted to the wheat bran in the field. They will eat large flakes, but not fine dust-like particles. Therefore, purchase bran with low dust content if possible. The addition of food coloring to the solution may assist in knowing when the bran is completely covered. During bait formulation, SEMASPORE may be sprayed through a clean sprayer commonly used for household cleaners.

Nosema has never been documented to cause harmful effects to the environment or nontarget organisms. It may kill crickets, but is not recommended for cricket control until further tests are conducted.

Bozeman Bio-Tech makes no warrants or claims to the performance of this product other than that shown on the label. As with all biological control agents, environmental conditions may influence effectiveness of the material.

