



053871-00009-050399

Printed: 10:11:45 Wednesday, 21 Jul, 1999 # 63 / 3691

Systems Integration Group, Inc.

PM 91

53871-9

5/3/99

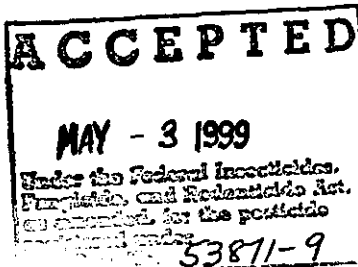
1 of 2

**NATURALIS® L**

Biological insecticide for use on field crops; vegetables; and fruit, nut and vine crops.

**ACTIVE INGREDIENTS:** *Beauveria bassiana* ATCC 74040 ..... 7.16%  
 (contains no less than  $2.3 \times 10^7$  viable spores  
 per milliliter of product)

Inert Ingredients: ..... 92.84%  
 Total: ..... 100.00%



**CAUTION**  
**KEEP OUT OF REACH OF CHILDREN**

**SHAKE WELL BEFORE USING**

EPA REG. NO. 53871-9 EPA ESTABLISHMENT NO. 53871-AZ-01  
 PATENT NO. 5,413,784 and 5,516,513

Manufactured By: TROY BIOSCIENCES INCORPORATED, 113 SOUTH 47TH AVENUE, PHOENIX, AZ 85043

**PRECAUTIONARY STATEMENTS****HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS**

This is a potential sensitizing agent via inhalation. Spray mist may cause respiratory irritation. Avoid breathing vapors. Avoid eye and skin contact.

**STATEMENT OF PRACTICAL TREATMENT****FIRST AID**

- If swallowed: Drink 1 or 2 glasses of water, then induce vomiting by touching fingers to the back of the throat. Do not induce vomiting or give anything by mouth to an unconscious person. Consult a physician.
- If inhaled: If inhaled, move to fresh air. In case of acute allergic reactions or respiratory irritation, consult a physician.
- If on Skin: Remove contaminated clothing and wash affected areas with soap and water. Consult a physician if irritation persists.
- If in Eyes: Flush eyes with copious amounts of water. If irritation persists, consult a physician.

**ENVIRONMENTAL HAZARDS**

Do not apply when weather conditions favor drift from the target area. *Beauveria bassiana* is an insect specific fungus. Avoid exposure of non-target insects. Avoid applying to areas where honeybees are actively foraging or around bee hives because this product is potentially pathogenic to honeybees. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. For terrestrial crops only. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters. Do not discharge into lakes, streams, ponds or public waterways.

The following requirements apply to the use of this product in applications covered by the Worker Protection Standard, 40 CFR Part 170.

**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). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not apply this product in a way that will contact workers or other persons, either directly, or through drift. Only protected handlers may be in the area during application. For requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not enter or allow worker re-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 involves contact with anything that has been treated, such as plants, soil or water are:

- Coveralls over long sleeve shirt,
- Long pants, and
- Shoes plus socks

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for category C on the EPA chemical resistance chart. Applicators and other handlers (other than mixers and loaders) must wear:

1. Long sleeved shirt and long pants.
2. Chemical resistant gloves.
3. Dust/mist NIOSH approved filtering respirator R95.
4. Shoes plus socks must be worn.

Follow manufacturer's instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use near heat or open flame.

## USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in a cool, dry place away from direct sunlight or excessive heat. Optimum storage temperatures are 4° C to 27° C (39° F to 80° F). Do not allow spray solution to stand more than 4 hours before use. Avoid contamination and loss of potency of opened containers by closing containers tightly after use. It is suggested that opened containers be used in their entirety when possible.

**CONTAINER DISPOSAL:** Do not reuse empty container. Rinse thoroughly before discarding. Triple rinse (or equivalent), then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incinerate if allowed by authorities, or by burning. If burned, stay out of smoke.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For end use only.

### GENERAL DIRECTIONS:

**Naturalis-L** works primarily through contact action, so good spray coverage is essential. Treat when pest populations are manageable and before extensive damage occurs. **Naturalis-L** contains an insect specific fungus. Time must be allowed to achieve pest population suppression. Climatic conditions and pest pressures will determine pretreatment needs.

The addition of sticking agents, insecticidal soaps, emulsifiable oils or insecticides may improve control of insects in conditions of high insect pressure. Follow the label instructions when tank mixing **Naturalis-L**. Do not tank mix with fungicides. Wait a minimum of 48 hours after application before applying fungicides. If fungicides are on a set schedule, i.e. 10 to 14 day intervals, apply **Naturalis** at midpoint. Slotted screens may be used. Do not use screen nozzles finer than 25 mesh to avoid clogging.

**Naturalis-L** is a biological product. Consult local Pest Management authorities, extension agents or Troy Biosciences Incorporated technical representative for guidance in selecting rates and timing schedules of application, as well as tank mix combinations.

## APPLICATION

**SHAKE WELL BEFORE USING** Mix recommended quantity with water. Triple rinse container shaking each time, and empty contents into partially filled spray tank free of fungicide residues. Complete filling the tank and mix well. For best results, spray immediately. Use best possible coverage techniques. At least 3 to 5 applications may be necessary before pests are adequately under control.

CROP	PEST	COVERAGE	SPECIAL DIRECTIONS
ALFALFA, CEREAL CROPS such as wheat, oats, and barley, BERRY AND SMALL FRUIT CROPS such as Blackberry, Blueberry, Cranberry, and Strawberry, CANOLA, CITRUS such as grapefruit, oranges and tangerines, CORN, COTTON, HOPS, PASTURE LAND, PEANUTS, PINEAPPLE, SAFFLOWER, SUNFLOWERS, AND TOBACCO,  BULB VEGETABLES such as Onions (green and bulb) and Garlic, CUCURBIT VEGETABLES such as Cucumbers, Melons and Squash, FRUITING VEGETABLES such as Eggplant, Pepper and Tomato, LEAFY AND COLE CROPS such as Lettuce (head and leaf), Kale, Celery, Spinach, Broccoli, Cabbage and Parsley, LEGUME VEGETABLES such as Beans, Lentil, Peas and Soybean, ROOT AND TUBER VEGETABLES such as Carrots, Potatoes, Beets and Sugarbeets,  HERBS, SPICES AND MINT such as Basil, Chives, Dill, Leek and Peppermint,  POME FRUIT such as Apple and Pear, STONE FRUIT such as Cherry, Nectarine, Peach, Plum and Prune, TREE NUTS such as Almond, Filbert, Pecan and Walnut, AND VINES such as Grapes, Hops and Kiwi Fruit,  AVOCADO AND TROPICAL FRUITS (INCLUDING BANANAS) such as Mango, papaya, and sapodilla.	ANTS, APHIDS, ARMYWORMS, BUDWORM AND BOLLWORM, CITRUS BLACKFLY, COLORADO POTATO BEETLE, CORN BORERS, FLEAHOPPERS, JAPANESE BEETLES, LEAFROLLERS, LOOPERS, LYGUS BUG, MEALYBUGS, TETRANYCHID MITES, PEAR PSYLLA, TARNISHED PLANT BUG, THRIPS, TOMATO FRUITWORM, WEEVILS, AND WHITEFLIES  EGGS OF LEPIDOPTERAN PESTS	10 TO 15 FLUID OUNCES PER ACRE.	APPLY <b>NATURALIS-L</b> IN PROPERLY-CALIBRATED CONVENTIONAL GROUND OR AERIAL EQUIPMENT WITH SUFFICIENT QUANTITIES OF WATER TO PROVIDE THOROUGH COVERAGE OF INFESTED PLANT PARTS UNLESS OTHERWISE INDICATED. USE AT LEAST 3 GALLONS OF WATER PER ACRE BY AIR; EXCEPT IN THE WESTERN U.S., WHERE 5 TO 10 GALLONS IS THE USUAL AMOUNT.  A STICKER OR SURFACTANT, WHICH HAS BEEN APPROVED FOR USE ON GROWING AND HARVESTED CROPS, SHOULD BE ADDED FOR USE ON HARD-TO-WET CROPS, SUCH AS COLE CROPS.  FOR ALL CROPS, APPLY AT THE ONSET OF INFESTATION. REPEAT AT 3 TO 5 DAY INTERVALS AS NEEDED. AT LEAST 3 TO 5 APPLICATIONS MAY BE NECESSARY BEFORE PESTS ARE ADEQUATELY UNDER CONTROL.

Troy Biosciences Incorporated warrants this product conforms to the description on its label and is reasonably fit for the purposes stated in the Directions for Use, under normal conditions, subject to risks described above. Except as so warranted, the product is sold "as is". Troy Biosciences Incorporated makes no other warranty, expressed or implied.

NATURALIS IS A REGISTERED TRADEMARK OF TROY BIOSCIENCES INCORPORATED.



TROY BIOSCIENCES  
INCORPORATED

SPECIMEN LABEL