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: KHH BioSci. lac.

03/03/2003

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Milsana® bioprotectant Concentrate

A plant extract to boost the plants' natural defense mechanisms against certain fungal and bacterial diseases.

EPA Reg. No. 72179-2

EPA Est A. THIB-NC-1

KEEP OUT OF REACH OF CHILDREN WARNING

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. West protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long sleeved shirt and long plants
- Shoes plus socks
- Waterproof gloves
- Protective eyewear

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, used detergents and hot water. Keep and wash PPE separately from other laundry.

FIRST AID STATEMENT

Have the product container or label with you when calling a polson control denter or doctor, or going for treatment.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscipus person.

USER SAFETY RECOMMENDATION

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, 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 wash water.

Net Contents:

KHH يما, بنكمتة, 920 Main Campus Drive, Sulte 400

Raleigh, North Carolina 27606

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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 may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 exemptions pertaining to the statements on this label about personal protective equipment (PPE) and the restricted entry interval (REI). 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 twenty-four (24) 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 plus socks
- Protective eyewear

GENERAL INFORMATION

Milsana is an organic extract from the plant *Reynoutria sachalinensis* for use on greenhouse grown ornamental plants. Milsana applied to actively growing plants (see directions for use) will help make the treated leaf area resistant to certain plant diseases. It also will result in greener, healthier plants. In begonias increased flowering was noted.

Milsana should be used as a preventative rather than a curative application. Apply prior to disease infestation to protect the growing leaf tissue. The principle diseases controlled in ornamental plants are powdery mildew (*Oidium* spp.), gray mold (*Botrytis* spp.) and rust (*Puccinia antirrhini*).

MODE OF ACTION

The extract obtained from ground-up *R. sachalinensis* plant material contains the active chemical substances. These compounds, when applied to the host plant, raise their natural defense system, based on a five-fold increase in phenolics. This induced resistance against some important diseases is not systemic, but there is some translaminar protection. This means that new plant growth needs to be protected, and repeat applications at 7-10 day intervals are recommended. The resistance induction takes place in one to two days. Light is required. Use Milsana therefore as a preventative treatment.

In some case varieties an increase of green leaf color has been observed,

ORNAMENTAL PLANTS

The following plant species have been treated with Milsana, either for the purpose of rendering them more vigorous or to prevent disease. The disease most prominently controlled is powdery mildew (Oidium spp.), and there are also reports of gray mold (Botrytis cinerea) and rust (Puccinia antirrhini) control. Plants investigated:

Begonias Crape myrtle Freesias Lisianthus Petunias

Poinsettias :

Salvias Snapdragons Zinnias

Gerbera

Roses

Since it is not possible to test all ornamental species or varieties grown in the greenhouse, it is recommended that the producer first test Milsana on a few plants prior to large-scale usage.

APPLICATION RATES AND TIMING

Mix Milsana bioprotectant concentrate with tap water at a concentration of 0.5% v/v (2 qts Milsana/100 gals water). Rates for trial purposes should range from 0.25%-1% v/v. Begin applications preventatively (before disease symptoms become visible) at the 4-6 leaf stage and treat at 7-10 day intervals as needed prior to sale or harvest. Spray water volumes should be between 50-100 gallons/acre. Spray until run-off. Make no more than six applications for annual ornamentals.

MIXING INSTRUCTIONS

Milsana bioprotectant concentrate is a suspension concentrate (SC) consisting of certain natural ingredients. Some of these ingredients tend to settle out after standing for an extended time in the container. They need to be <u>shaken vigorously</u> to be re-suspended before using. If mechanical mixing is available when preparing the spray solution, keep the agitator running. Apply with an anionic wetting agent such as Tween 20 or Latron B-1956 at 0.02% v/v of the final water volume. Do not mix with any other ingredient unless specified on this label.

RESTRICTIONS AND LIMITATIONS

Do not apply through any type of irrigation equipment.

Do not apply more than 100 gallons of a 1% spray solution per acre.

Do not apply more than six applications per year.

Do not apply with non-phytotoxic oil. Do not mix with any other ingredient unless specified on this label.

Concentrations of 1% Milsana or more applied to very small, tender plants may produce serious plant injury. Do not use on Gerbera and Lisianthus plugs. Wait for two weeks after transplanting.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container. Keep container tightly closed when not in use. Keep from freezing. Store in a heated warehouse.

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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: Do not reuse empty container. Triple rinse container, then offer for recycling or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by State and Local authorities, by burning. If burning is allowed, stay out of smoke.

WARRANTY

Other than as indicated on this product label, the seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product. The user assumes all risks of use, storage or handling that are not in strict accordance with the accompanying directions.

Label date:

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Raleigh, North Carolina 27606

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