

TM-BIOCONTROL

For Douglas-fir Tussock Moth

Biological Insecticide
Wettable Powder

ACTIVE INGREDIENT: *
Polyhedral inclusion bodies of Douglas-fir
tussock moth nuclear polyhedrosis virus.....11.6% W/W
INERT INGREDIENTS:
Insect parts/inert solids.....88.4% W/W
Total.....100.0% W/W
* Contains at least 621.7 billion inclusion bodies per ounce.

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

Read First Aid Treatment Before Use

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

MFG. FOR: USDA Forest Service
180 Canfield Street
Morgantown, WV 26505

EPA Registration No. 27586-1
EPA Establishment No. 58971-MD-001

Net Weight: _____ oz Lot No. _____

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Only for formulation into a biological insecticide for use in managing Douglas-fir tussock moth infestations in wide-area public pest control programs sponsored by government entities. This product is registered only for the management of this moth and its use to forest trees and ornamental or non-commercial trees in urban parks, golf courses, lawns and landscapes. Tree species include but not limited to Douglas-fir, grand fir, white fir, red fir, subalpine fir, blue spruce and Englemann spruce. Registration of this product does not allow use on ornamental trees for sale, or commercial seed production.

TM Biocontrol-1 contains a virus specific to larvae of the Douglas-fir tussock moth with maximum effectiveness exhibited against early instar larvae. Spray application should occur in late May to early June (soon after egg hatch when first and second instar larvae are actively feeding) while new needles are expanding. Best results are expected when applications are made early in the morning on dry foliage. Application is not recommended if rain is predicted within 12 hours. Rainy weather may necessitate repeated applications

Mixing Instructions: The recommended acre dose rate per gallon is 0.72 parts water, 0.25 parts molasses, 0.5 pound sunscreen (lignosulfonate or fluorescent whitening agent), 0.4 oz of TM Biocontrol, and sufficient amount of NaOH (sodium hydroxide) to adjust pH to 6.0 - 7.2.

Tank-mix sequence:

- Fill tank with water and start agitation. **Never use chlorinated water in the spray formulation.**
- When necessary, add NaOH to adjust pH.
- Blend sunscreen slowly to avoid lumps of powder.
- Pour molasses into the mixture.
- Prepare TM Biocontrol water slurry and add to tank-mix.
- Continue agitation for 15 minutes and check pH before spraying.

Mixing equipment should have in-line filter and allow continuous circulation during agitation. Adjuvants may enhance performance of this product. Carrier mixture can be prepared within 24 hours of use and TM Biocontrol-1 added just before application. Although not recommended, it is possible to apply unused formulated field spray up to 48 hours after preparation if pH has not exceeded 7.2.

FIRST AID TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists. **IF ON SKIN:** Wash with plenty of soap and water.

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

WARNING:

Causes substantial but temporary eye irritation. Do not get in eyes, on skin or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective gloves
- Mixers must also use additional protective eyewear (goggles or face shield)

After product is diluted in accordance with the directions for use, goggles or face shield are not required. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should wash hands before eating or drinking. If pesticide gets inside clothing, wash skin thoroughly before putting on clean clothes. Remove PPE immediately after handling this product. Bathe and change clothing soon after product application.

Environmental Hazards

For terrestrial uses, avoid direct application to lakes, streams, or ponds. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

NOTICE

The USDA Forest Service makes no warranty, express or implied, of merchantability and/or fitness concerning this material, except those contained on the label.

Aerial Application: For population reduction, apply specified dosage (0.4 oz [11 grams] per acre) at the rate of 2 gallons per acre of formulated field spray. Use boom and nozzle systems or rotary atomizers designed to result in droplet Volume Median Diameters (VMD) of 50 to 100 microns. **DO NOT ADD TM BIOCONTROL DIRECTLY TO AIRCRAFT HOPPER.**

Ground Application: Spray formulation using hydraulic equipment should be applied in sufficient volume for thorough coverage. It is recommended that the specified dosage (0.4 oz [11 grams] per acre) be applied at a rate of 100 gallons per acre of formulated field spray to woodlots and small acreage's. Individual trees should be sprayed once to runoff (e.g. 15 to 20 gallons for large Douglas-fir trees).

STORAGE AND DISPOSAL

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

Storage: Direct sunlight or temperatures above 80°F will impair activity. Store in sealed containers in cool dry place. Temperatures below freezing are recommended for long term storage.

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: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.