

For Douglas-fir Tussock Moth

Orgyia pseudotsugata

TM Biocontrol-1

Biological Insecticide

Wettable Powder

ACTIVE INGREDIENT:*

Douglas-fir tussock moth nucleopolyhedrovirus 14.6%

INERT INGREDIENTS:

Insect parts/inert solids85.4%

Total 100.0%

* (equivalent to at least 1.28×10^{10} OB/gm)

There is no direct relationship between intended activity (potency) and the percent active ingredient by weight.

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.)

USDA Forest Service
180 Canfield Street
Morgantown, WV 26505

EPA Registration No. 27586-1

EPA Establishment No. 58971-MD-001

MAR 17 2005

Net Weight _____ oz Lot No. _____

ACCEPTED
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 27586-1

FIRST AID

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 in eyes

- Hold eyelid 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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 (24 Hours) for emergency medical treatment. For other information, call 1-800-858-7378.

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

WARNING

Causes moderate, but temporary eye irritation. Avoid contact with eyes, skin, open wounds, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged or repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Mixers and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves
- Mixers/loaders and applicators not using enclosed cabs or aircraft must also use:
- Additional protective eyewear (goggles or face shield)
- Dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95.

After product is diluted in accordance with the directions for use, protective eyewear and respirators 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, drinking, chewing gum, using tobacco or using the toilet
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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. Keep unprotected persons out of the treated areas until sprays have dried. Do not apply this product through any type of irrigation system. Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator and the treatment coordinator are responsible for considering all of these factors when making decisions.

This product is sensitive to environmental conditions and should be stored in a cool dark place prior to use (read STORAGE AND DISPOSAL section).

Environmental Hazards

Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Mixing Instructions

Add TM Biocontrol-1 to recommended carrier in the proper ratio for per acre dosages and agitate to maintain suspension. Consult USDA Forest Service for currently recommended carriers in tank mix.

DIRECTIONS FOR USE

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

Never use chlorinated water in the spray formulation. If pH is < 6.0 or > 7.2, add appropriate amount of acid to adjust to within acceptable pH range.

Only for use as a biological insecticide in managing Douglas-fir tussock moth infestations in wide-area public pest control programs sponsored by government entities.

Spray Volumes

Application of this product is limited to forest trees and ornamental or non-commercial trees in urban parks, golf courses, lawns and landscapes. Tree species include but are not limited to Douglas-fir, grand fir, white fir, red fir, subalpine fir, blue spruce and Englemann spruce.

- **Ground application:** It is recommended that up to 0.4 oz (1.4 x 10¹¹ OB) of TM Biocontrol-1 per acre be applied one or more times with a high volume hydraulic sprayer at a rate of 100 gallons per acre of tank mix to woodlots and small acreages. Individual large trees should be sprayed once to provide through coverage. If needed, a second spray may be applied within 5 days.

TM Biocontrol-1 contains a virus that is toxic to larvae of the Douglas-fir tussock moth, *Orgyia pseudotsugata*. Maximum efficacy is achieved when a lethal dose of the viral agent is consumed by early instar larvae. TM Biocontrol-1 should be applied soon after egg hatch, when first and second instar larvae are actively feeding, and new needles are expanding (May to mid-July). Best results are expected when applications are made early in the morning on dry foliage. Rainy weather may necessitate repeated applications. Spray application is not recommended if rain is predicted within 12 hours.

- **Aerial Application:** Current recommended dosage of one application up to 0.2 oz (7.0 x 10¹⁰ OB) of TM Biocontrol-1 per acre. For tank mix volumes, use 1/2 to 2 gallons per acre. If needed, a second spray may be applied within 5 days.

STORAGE AND DISPOSAL

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

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 in accordance with federal and local regulations.

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.

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.

For additional information and assistance contact USDA Forest Service, Pacific Northwest Region, La Grand, OR, (541) 962-6545.