# 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 solids
Total 100.0%
* (equivalent to at least 1.28 x 10 <sup>10</sup> 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

### ACCEPTED

Under the Federal Insecticide. Fungicide, and Rodentictide Act. as amended, for the pesticide registered under 27586 -1

EPA Rag. No.

Net Weight: oz Lot No. FEB 2 5 2005

FIRST AID	
If on skin or clothing	<ul> <li>Take off contaminated clothing</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatement advice.</li> </ul>
If in eyes	<ul> <li>Hold eyelid open and rinse slowly and gently with wate for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 min tes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
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
- Dust/mist filtering respirator meeting NIOSH stardards 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.

#### **Environmental Hazards**

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

#### **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.

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.

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 appplication is not recommended if rain is predicted within 12 hours.

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).

#### **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.

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.

#### **Spray Volumes**

- Ground application: It is recommended that up to 0.4 oz (1.4 x 10<sup>11</sup> 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.
- Aerial Application: Current recommended dosage of one application up to 0.2 oz (7.0 x 10<sup>10</sup> OB) of TM Biocontrol-1 per acre. For tank mix volumes, use ½ 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

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