

# BeetleBlock - VERBENONE

A REPELLENT PHEROMONE PRODUCT FOR CONTROL OF  
THE MOUNTAIN PINE BEETLE *Dendroctonus ponderosae*, WESTERN PINE  
BEETLE *Dendroctonus brevicomis* AND SOUTHERN  
PINE BEETLE *Dendroctonus frontalis*.

This product is for Forestry use only

## ACTIVE INGREDIENT

Verbenone, 4,6,6-Trimethylbicyclo(3.1.1) hept-3-en-2-one 91.49%

## OTHER INGREDIENTS

8.51%

TOTAL 100.00%

Each dispenser contains 6.75 grams of verbenone

The dispenser components constitute approximately 75% of the products total weight

**KEEP OUT OF REACH OF CHILDREN**

**MANTENGA FUERA DEL ALCANCE DE NIÑOS**

**CAUTION**

**PRECAUCIÓN**

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

SEE BACK PANEL FOR FIRST AID STATEMENTS  
READ ALL DIRECTIONS BEFORE USING THIS PRODUCT

ChemTica Internacional S.A.  
Apdo. 159-2150  
San Jose, Costa Rica

EPA Registration No. 73813-2

EPA Establishment No. 73813-CR-1

## CONTENTS

10 Dispensers containing 0.236 oz (6.75 g) pheromone per dispenser for a total of 2.36 oz

100 Dispensers containing 0.236 oz (6.75 g) per dispenser for a total of 1 lb 7.6 oz

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

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

**FIRST AID**

**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 a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call poison control center or doctor for treatment advice.

**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 the eye.
- Call poison control center or doctor for treatment advice.

---

**HOT LINE NUMBER**

---

Have product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-262-8200 for emergency medical treatment information.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses, do not apply directly to water, or areas where surface water is present or to intertidal areas below the mean high water mark. 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**

1. CROP: Lodgepole Pine, Ponderosa Pine, Whitebark Pine, Western White Pine, Southwestern White Pine, Limber Pine, Sugar Pine, Coulter Pine, Monterey Pine, Jack Pine, Red Pine, Jeffery Pine, Scotch Pine, Knobcone Pine, Bristlecone Pine, Bishop Pine, Aleppo Pine, Torrey Pine, Spruce Pine, Digger Pine, Pinion Pine, Pitch Pine, Slash Pine, Longleaf Pine, Shortleaf Pine, Virginia Pine, Pond Pine, Eastern White Pine Loblolly Pine, Engelmann Spruce, White Spruce, Lutz Spruce and Sitka Spruce.

2. PEST:

Mountain Pine beetle	-	<i>Dendroctonus ponderosae</i> .
Southern Pine beetle	-	<i>Dendroctonus frontalis</i>
Western Pine beetle	-	<i>Dendroctonus brevicomis</i>
Red Turpentine beetle	-	<i>Dendroctonus valens</i>
Pine Engraver	-	<i>Ips pini</i>
Northern Spruce Engraver	-	<i>Ips perturbatus</i>
California Five-spined Ips	-	<i>Ips paraconfusus</i>

3. APPLICATION: Prior to use open foil shipping bag carefully in a well ventilated area to allow any accumulated vapors to vent. Do not puncture reservoir, staple only through the colored plastic tab at top of dispenser.

BeetleBlock - VERBENONE dispensers are used to prevent or reduce bark beetle attacks on susceptible trees or stands containing a significant portion of pine or spruce trees. BeetleBlock - VERBENONE dispensers emit an anti-aggregation pheromone that is repellent to Mountain Pine beetle, Southern Pine beetle, Western Pine beetle and other conifer infesting beetles

BeetleBlock - VERBENONE is intended to be used as part of an integrated pest management system. When in doubt about treatment consult a knowledgeable professional (U.S. Forest Service, State Forester, Arborist, Forester) before using BeetleBlock - VERBENONE. For best results remove as many beetle infested trees as possible from the site prior to beetle emergence and deploying BeetleBlock - VERBENONE

For treatment areas greater than half an acre staple BeetleBlock - VERBENONE dispensers 6-12 feet above the ground, on the north face of susceptible trees in a grid pattern at a minimum of 20 dispensers/acre. Maximum allowable dose is 60 dispensers/acre/year.

For treatment areas between one half and one quarter of an acre, place dispensers at 35 foot intervals around the perimeter and place the remaining dispensers on the north side of the largest diameter trees.

For protection of individual trees, staple at least 2 dispensers on the north face of the tree (maximum 30 trees/acre) with one dispenser at 6 feet and the other at 12 feet above the ground. For trees larger than 14 inches in diameter (at breast height) use four dispensers stapled to the tree in four cardinal directions (maximum 15 trees/acre). When using four dispensers per tree, alternate the height of adjacent dispensers, two at 6 feet and two at 12 feet above the ground.

4. TIMING: Deploy the dispensers before initial beetle flight, usually May - June.
5. NOTES:
- [i] If more than 20% of trees are infested, repellence will be less effective. For best results at high population densities use pheromone tree baits and/or trapping in addition of BeetleBlock - VERBENONE dispensers.
  - [ii] Treating larger areas gives a geometrical advantage in so far that beetles repelled from the area try and fly out of the repellent treated area, and the larger the treated area the more beetles are likely to exhaust and die during flight.
  - [iii] Monitor treated stands for beetles using pheromone traps or trap trees.

**STORAGE AND DISPOSAL STATEMENTS**  
**DO NOT CONTAMINATE FOOD OR FEED BY STORAGE OR DISPOSAL**

- PESTICIDE STORAGE:** Store in original container, in cool, dry area at 75°F (25°C) or below.
- PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
- CONTAINER DISPOSAL:** Completely empty shipping bag. Then dispose of empty bag and exhausted dispensers in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning, if burned, stay out of smoke.

**WARRANTY**

ChemTica Internacional warrants that this product conforms to the chemical description on the label. ChemTica Internacional neither makes nor authorizes any agent or representative to make any other warranty of fitness or of merchantability, guarantee or representation, express or implied, concerning this material. ChemTica Internacional's maximum liability for breach of this warranty shall not exceed the purchase price of the product. Buyer and user acknowledge and assume all risks and liabilities resulting from the handling, storage and use of this product.

