

CTI-2003-1

A REPELLANT PHEROMONE PRODUCT FOR CONTROL OF THE DOUGLAS-FIR BEETLE
Dendroctonus pseudotsugae

ACTIVE INGREDIENT

3-methylcyclohex-2-en-1-one 99.50%

OTHER INGREDIENT 0.50%

TOTAL 100.00%

Each dispenser contains 400 mg of the pheromone
The dispenser component constitutes approximately 70% of the product's total weight

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

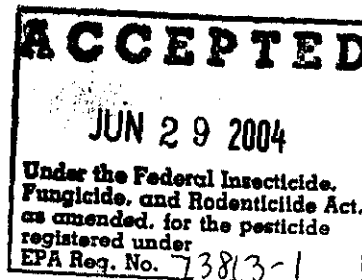
ChemTica Internacional S.A.
Apdo 159-2150
San Jose, Costa Rica.

EPA Registration No. 73813-R

EPA Establishment No. 73813-CR-1

NET WEIGHT: _____ Grams

- 10 Dispensers containing 400 mg of pheromone per dispenser
- 100 Dispensers containing 400 mg of pheromone per dispenser
- 500 Dispensers containing 400 mg of pheromone per dispenser



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

CAUTION

Do not puncture liquid reservoir. Prior to use, open shipping bag in a well ventilated area and allow accumulated vapors to vent. Avoid inhalation of vapors. Causes moderate eye irritation. Avoid contact of the liquid or vapors with skin, eyes or clothing. Liquid is harmful if absorbed through the skin, inhaled or swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

FIRST AID

IF LIQUID IS 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 VAPORS ARE INHALED

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

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

IF LIQUID OR VAPORS ARE IN EYES

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

Have product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical advice.

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: Douglas-fir, Spruce

2. PEST: Douglas-fir beetle [*Dendroctonus pseudotsugae*]
Spruce beetle [*Dendroctonus rufipennis*]

3. APPLICATION:

CTI-2003-1 dispensers are for use in tree stands containing a significant proportion of Douglas-fir or spruce trees. CTI-2003-1 dispensers emit an anti-aggregation pheromone that is repellant to Douglas-fir beetles and may be repellant to spruce beetles

[*Dendroctonus rufipennis*]. CTI-2003-1 dispensers repel mass attack by Douglas-fir and spruce beetles. Staple CTI-2003-1 dispensers 6 - 12 feet above the ground to the north side of standing Douglas-fir or spruce trees. Place the lure dispensers on susceptible trees in a grid pattern at an average dose of 40 dispensers per acre [100 dispensers/hectare]. The minimum/maximum allowable dose is 25/100 dispensers/acre or 63/250 per hectare.

4. TIMING: Deploy CTI-2003-1 at least two weeks prior to the expected attack flight of the beetles. Under normal weather conditions CTI-2003-1 dispensers emit effective amounts of MCH for 60 days.

- 5. NOTES:**
- [i] If pest population densities are excessively high, repellence will be less effective. At high population densities use pheromone trapping in addition to application of CTI-2003-1 dispensers.
 - [ii] Treating larger areas gives a geometrical advantage in so far that Douglas-fir beetles repelled from an area endeavor to 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] CTI-2003-1 also works well on small [<1 acre] stands of Douglas-fir and spruce.
 - [iv] Monitor treated areas for Douglas-fir beetle using pheromone traps.

STORAGE AND DISPOSAL STATEMENTS

Do not contaminate food or feed by storage or disposal

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| 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 may be disposed of on site or at an approved waste disposal facility. |
| CONTAINER DISPOSAL: | Completely empty bag. 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. |

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.