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BEETLEBLOCK-MCH

**A REPELLANT PHEROMONE PRODUCT FOR MANAGEMENT OF THE DOUGLAS-
FIR BEETLE *Dendroctonus pseudotsugae* AND SPRUCE BEETLE *Dendroctonus
rufipennis***

COMMERCIAL

Insect Sex Pheromone Slow Releasing Generator

ACTIVE INGREDIENT

3-methylcyclohex-2-en-1-one.....97.5%

REGISTRATION No 29910 PEST CONTROL PRODUCTS ACT

CAUTION



POISON

EYE AND SKIN IRRITANT

READ THE LABEL BEFORE USING NET CONTENTS:

10 Dispensers per package

100 Dispensers per package

500 Dispensers per package

Each 2.2 g dispenser contains 400 milligrams of 3-methylcyclohex-2-en-1-one (MCH)

Each Dispenser contains 400 milligrams of pheromone.

The dispenser component constitutes approximately 70% of the product's total weight.

ChemTica Internacional S.A.
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Call Chemtica phone: 1-580-861-4800F

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DIRECTIONS FOR USE:

1. Host Trees Standing and fallen Douglas-fir and spruce trees and stumps, and stands containing Douglas fir or spruce trees.

2. Pest: MCH is an anti-aggregation pheromone for the Douglas-fir beetle, *Dendroctonus pseudotsugae*, and the spruce beetle, *Dendroctonus rufipennis*. BEETLEBLOCK-MCH dispensers deter mass attack by these pests.

3. Rate and Application:

Placement on trees:

BEETLEBLOCK-MCH dispensers are for use in tree stands containing a significant portion of Douglas-fir or spruce trees. Place BEETLEBLOCK-MCH dispensers on trees over 20 cm diameter on the north face of the tree at a minimum height of 2.5 meters above ground. Staple at the top and do not puncture the center of the dispenser.

Individual trees:

Place 1 or 2 BEETLEBLOCK-MCH dispensers on each tree, the number depending on the risk of attack. For large trees, add 1 more dispenser for each additional 20 cm diameter 1 meter above the previous dispenser. (e. g., a 40 cm diameter tree will have at least 2 dispensers with 1 or 2 placed at a minimum height of 2.5 meters and an additional dispenser at 3-4 meter height)

Treed areas less than 1 ha:

Place 1 or 2 BEETLEBLOCK-MCH dispensers on all trees over 20 cm in diameter, the number of dispensers depending on the risk of attack.

Forested areas over 1 ha:

Minimum dose – 75 BEETLEBLOCK-MCH dispensers / ha. For low to moderate beetle pressure, place 1 dispenser in a grid pattern with 11.5 meter centers. Alternatively, up to 3 dispensers may be placed on each tree receiving dispensers, reducing the number of grid points. With 3 dispensers per tree the grid would expand to 20 meters.

Maximum dose – 200 BEETLEBLOCK-MCH dispensers / ha. For high to extreme beetle pressure, place 1 dispenser / tree in a grid pattern with 7 meter centers. Alternatively, up to 3 dispensers may be placed on each tree receiving dispensers, reducing the number of grid points. With 3 dispensers per tree the grid would expand to 12 meters.

For best results, remove and destroy all beetle-infested trees on property before application.

Treating larger areas provides a geometrical advantage because repelled Douglas-fir beetles endeavor to fly out of the treated area, and the larger that area is, the more beetles may become exhausted and die.

If pest population densities are excessively high BEETLEBLOCK MCH will be less effective.

Stumps and wind thrown trees:

Each stump or tree must be treated to prevent population build-up because stumps and wind thrown trees are preferred hosts. Place 1 BEETLEBLOCK-MCH dispenser on the north face of each stump. Place up to 6 dispensers, depending on tree size, at 2-3 meter spacing on the shady side of

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the log.

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Extensive wind throw:

For large areas of wind throw (over 1 ha) where treating every tree is not feasible, place 200 BEETLEBLOCK-MCH dispensers / hectare in a grid pattern at 7 meter centers. Alternatively, 3 dispensers may be placed on each tree receiving dispensers and the grid expanded to 12 meter centers.

4. Timing

Apply at least 2 weeks prior to the expected attack flight of the beetles. The expected lifespan of the BEETLEBLOCK-MCH dispenser is 70-90 days, weather dependent.

Treatment is usually site-specific, depending on such factors as proximity, size and rate of growth of a natural infestation or other source of beetles (e. g., sawmill), stand age and composition, aspect, elevation, latitude, climate, local weather, and integration with other control tactics. Inexperienced users are advised to seek guidance from a professional forest entomologist.

PRECAUTIONS

Harmful if swallowed.

EYE AND SKIN IRRITANT. Avoid contact with skin and eyes.

DO NOT puncture bubble caps or handle their contents.

KEEP OUT OF THE REACH OF CHILDREN AND PETS.

Do not apply this product in a way that will contact workers or other persons directly. Only protected handlers may be in the area during placement of the trees. Harmful if swallowed or adsorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash skin and clothing thoroughly with soap and water after handling.

Avoid contact with active (liquid) ingredients. Do not puncture liquid reservoir. Avoid prolonged exposure to dispenser fumes during transport and application. Avoid inhaling fumes; open storage bag outdoors prior to use and allow to vent for 10 minutes before removing dispensers. Users must wear suitable protective clothing including chemical resistant gloves and eye protection when handling the dispensers. Wash hands with soap and water after use. Do not contaminate irrigation water supplies or aquatic habitats by cleaning equipment or disposal of wastes.

In areas where high bystander exposure is expected, attach the dispensers at a height that is hard to or out of reach. Applications are limited to woodlots, forests and sawmill yards. Do not apply near or in areas frequented by small children and companion animals, e.g., residential lots, parks, camping sites, resorts and scenic vistas.

FIRST AID

If swallowed: Call a 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 15-12 minutes. Call a poison control center or doctor for treatment advice.

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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 eye. Call a poison control center or doctor for treatment advice.

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

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE AND DISPOSAL

DO NOT contaminate irrigation or drinking water supplies or feed by storage and disposal of unused or used dispensers.

STORAGE: Store dispensers in a sealed storage bag (provided). Store below 20°C or as cold as possible. Storage is best in areas with constant temperature below 0°C.

DISPOSAL: For information on disposal of unused or unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

ENVIRONMENTAL HAZARDS

1. This product is toxic to birds.
2. DO NOT apply this product directly to freshwater habitats such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands, estuaries or marine habitats.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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CAUTION POISON



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