

03-APR-2003

05-JUL-2004 Notification received of a label change. See below for this change.

GROUP	17	HERBICIDE
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# GLOWON MSMA

COMMERCIAL (FORESTRY)

**CAUTION  
POISON**



READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

THIS PRODUCT IS PHYTOTOXIC

REGISTRATION NO. 10892  
PEST CONTROL PRODUCTS ACT

WARRANTY: Arsenic (as Elemental) 320 grams per litre  
(present as monosodium methane arsenate)

Notification Change

**UNITED AGRI PRODUCTS CANADA INC.**

UNITED AGRI PRODUCTS  
789 Donnybrook Drive  
Dorchester, Ontario  
N0L 1G5



(01) 5 06 23111 00336 1

NET CONTENTS/  
2 x 10 L

WL 19403  
12/02

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN:** Harmful if swallowed or inhaled. Avoid contact with skin, eyes or clothing. Use protective hand lotion or gloves when applying with axe and dispenser. Wash thoroughly after using. Store in a safe place away from feed and food products. Do not store in or place in contact with aluminum, copper or galvanized metal containers. Do not contaminate woods, ponds, streams or lakes by cleaning of equipment or disposal of wastes.

**FIRST AID:**

**IF ON SKIN:** Remove all contaminated clothing. Wash skin and hair thoroughly with soap and water. Wash clothing before reuse. If irritation persists, get medical attention.

**IF IN EYES:** Flush with running water for at least 15 minutes while holding eyelids open to help flush out material. Get medical attention

**INGESTION:** Drink 1-2 glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Keep head lower than chest to avoid aspiration into lungs. Call physician immediately or contact a poison control centre.

**INHILATION:** Remove to fresh air, if breathing is difficult, administer oxygen; if breathing stops administer artificial respiration. Get medical attention immediately.

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

**TOXICOLOGICAL INFORMATION:** Persons who have large quantities of this material internally may show signs of nausea and diarrhea. Vomiting should be induced to empty the stomach of its contents. Consult a doctor.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, 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.

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offense under the *PEST CONTROL PRODUCTS ACT* to use a control product under unsafe conditions.

**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

This sheet will detach at perforation.  
Discard in appropriate trash receptacle.

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**GENERAL INFORMATION:** GLOWON MSMA is useful for pre-commercial thinning of 2-15 cm d.b.h. conifer stands by direct injection into axe frills made into the bark of the tree. It does not translocate through root grafts, and forked trees require individual treatment. GLOWON MSMA is effective on Western Hemlock, Douglas Fir, Silver Fir, Lodgepole Pine, Ponderosa Pine and Western Red Cedar but is not effective on most hardwoods.

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management GLOWON MSMA is a Group 17 herbicide. Any weed population may contain or develop plants naturally resistant to GLOWON MSMA and other Group 17 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of GLOWON MSMA or other Group 17 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage, cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact the Technical Service at 1-800-265-4624 or at [www.uap.ca](http://www.uap.ca).

**DIRECTIONS FOR USE:** For commercial thinning of young conifer stands. GLOWON MSMA is applied undiluted into horizontal frills, cut with an axe at a convenient place on the trunk, usually at waist high or below. GLOWON MSMA applied into these cuts will then enter the cambium layer just below the bark. Approximately 1 mL of GLOWON MSMA is then

applied into each cut and the tree dosage is determined by the number of such frills cut into the tree.

For control of young conifers less than 15 cm d.b.h. with full crown apply GLOWON MSMA at 1 mL per frill and cut a frill for every 2.5 cm d.b.h. (diameter at breast high).

For control of young conifers less than 15 cm d.b.h. with half or less of a complete crown apply GLOWON MSMA at one mL per frill and cut a frill for every 5 cm of tree d.b.h.

Use same dosage in dormant season as during growing season. Large trees with full crowns require almost overlapping frills for effective control.

#### FOR BEETLE CONTROL:

**MOUNTAIN PINE BEETLE:** (*Dendroctonus ponderosae*) apply no later than three weeks after infestation. Make a shallow continuous axe frill around the base of the tree, just penetrating the outer rings of sapwood. Apply 1 mL of undiluted product per 2.5 cm of tree circumference into the frill.

**SPRUCE BEETLE:** (*Dendroctonus rufipennis*) apply one treatment per standing Spruce tree in early spring as a hack and squirt application. Make a shallow continuous axe frill just penetrating the outer ring of sapwood around the entire circumference close to the base. Apply 1 mL of a 25% solution of GLOWON MSMA per 2.5 cm tree circumference into the frill. Trees should be felled 2 weeks later after translocation of GLOWON MSMA.

**WESTERN BALSAM BARK BEETLE:** (*Dryocoetes confusus* (Swaine) - the treatment can be used as part of a beetle management program where a pheromone bait such as exo-brevicommin is applied to the target trees first. Apply GLOWON MSMA no later than three weeks after infestation. Make a shallow continuous axe frill around the base of the tree, just penetrating the outer rings of sapwood. Apply 1 mL of undiluted product per 2.5 cm of tree circumference into the frill.

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