

62719-424

11/25/2002

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Barbara J. Kaminski
Regulatory Manager
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

NOV 25 2002

Dear Ms. Kaminski:

Subject: GOAL® 2XL Herbicide
EPA Registration No. 62719-424
Application and Your Letter Dated August 15, 2002,
Request To Amend Registration, Supplemental Labeling
for Weed Control in Windbreaks and Shelterbelts for
Use in Minnesota, North Dakota, South Dakota and
Wyoming; and Supplemental Labeling for Weed Control
in Mint (Spearmint and Peppermint) Grown in Muck Soils
in Indiana, Michigan, Montana, North Dakota, South
Dakota and Wisconsin

The proposed subject Supplemental Labels have been reviewed and found acceptable under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, provided that you:

1. Request cancellation of the 24(c) registrations that these supplement labels will replace within one year from the date of this letter.
2. Submit one (1) copy of the final printed label prior to your shipment of this pesticide product under the enclosed revised stamped label.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment under these labels constitutes acceptance of these conditions. A stamped copy of each label is enclosed for your records.

Sincerely yours,

Eugene M. Wilson
for Joanne I. Miller

Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosures (2)

Supplemental Labeling



Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

Goal* 2XL EPA Reg. No. 62719-424

For Weed Control in Mint (Spearmint and Peppermint) Grown in Muck Soils

For Use Only on Mint Grown on Muck Soils in Indiana, Michigan, Montana, North Dakota, South Dakota, and Wisconsin

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This label must be in the possession of the user at the time of pesticide application.
- Read the label affixed to the container for Goal* 2XL herbicide before applying. Follow all other applicable directions, restrictions, and precautions on the EPA-registered label.
- Use of Goal 2XL according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container.

GENERAL INFORMATION

Goal 2XL may be used for the control of listed annual broadleaves weed in dormant spearmint and peppermint grown on muck soils. **Note:** If applied after spearmint and peppermint emerge, severe injury will result. Applications made to first year spearmint or peppermint should be made within four (4) days of planting (sprigging) to prevent excessive crop injury.

WEEDS CONTROLLED POSTEMERGENCE AND PREEMERGENCE

When Goal 2XL is applied at recommended dosages in spearmint and peppermint, the following weeds are controlled:

KNOTWEED, PROSTRATE
PIGWEEED, REDROOT

PURSLANE, COMMON

DOSAGE

Goal 2XL should be applied at a rate of 4 to 6 pints (1.0 to 1.5 lb active ingredient) per acre. Apply in a spray volume of 20 to 40 gallons per acre of clean water at 20 to 40 psi. When used postemergence (to weed), add an 80% active ingredient nonionic surfactant at the rate of one quart per 100 gallons of spray solution. Applications should be made before the weeds exceed four inches. It is important that applications of Goal 2XL be made prior to the emergence of the spearmint or peppermint.

FOR USE ONLY ON MINT GROWN ON MUCK SOILS IN INDIANA, MICHIGAN, MONTANA, NORTH DAKOTA, SOUTH DAKOTA, WISCONSIN SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the beginning of this label.

- Use directions in this section of the label for Goal 2XL are applicable only to spearmint and peppermint grown on muck soils (muck soils should have organic matter content of 20% or greater)
- Apply Goal 2XL only to healthy spearmint or peppermint. Do not apply to spearmint or peppermint that has been weakened by disease, nematodes, soil insects, or winter injury, as severe injury may result.
- Do not apply Goal 2XL to mint that has emerged.
- Applications to first-year spearmint or peppermint should be made within four (4) days of planting (sprigging).

*Trademark of Dow AgroSciences LLC

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LOES#010-01741
EPA-accepted: 04/17/2002
Initial printing.

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

NOV 25 2002

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
62719-424**

Supplemental Labeling



Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

Goal* 2XL

EPA Reg. No. 62719-424

Weed Control in Windbreaks and Shelterbelts

For Use Only in Minnesota, North Dakota, South Dakota and Wyoming

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This label must be in the possession of the user at the time of pesticide application.
- Read the label affixed to the container for Goal* 2XL herbicide before applying. Follow all other applicable directions, restrictions, and precautions on the EPA-registered label.
- Use of Goal 2XL according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container.

GENERAL INFORMATION

Goal* 2XL is effective as a preemergence and/or postemergence herbicide for the control of listed annual broadleaf weeds in windbreaks and shelterbelts. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Treated soil surfaces should not be disturbed because the herbicidal effectiveness of Goal 2XL may be decreased. Seedling weeds are controlled during emergence as they come in contact with the soil-applied herbicide. The most effective postemergence weed control is achieved when Goal 2XL is applied with thorough coverage of weeds in the seedling stage.

Occasionally after the use of Goal 2XL, a spotting, crinkling or flecking may appear on the leaves of the deciduous species. Leaves that receive direct or indirect (drift) spray contact will be injured. Deciduous species typically outgrow this condition rapidly and develop normally.

IMPORTANT: Some varieties or cultivars of conifers and deciduous species listed may be susceptible to Goal 2XL. Care should be taken to ensure that the particular variety to be sprayed with Goal 2XL is tolerant. It is suggested that unfamiliar species be tested in limited areas prior to application for preemergence and postemergence weed control.

WEEDS CONTROLLED

When Goal 2XL is applied preemergence or postemergence (up to 4-leaf weed stage) at recommended dosages, the following broadleaf weeds are controlled:

- | | |
|-----------------------|---------------------------|
| BUCKWHEAT, WILD | MUSTARD, WILD |
| BURCLOVER | NETTLE, BURNING |
| CARPETWEED | NIGHTSHADE, BLACK |
| DOCK, CURLY | NIGHTSHADE, HAIRY |
| GROUNDCHERRY, CUTLEAF | OATS, WILD |
| GROUNDCHERRY, WRIGHT | ORACH, RED |
| GROUNDSEL, COMMON | PEPPERWEED, YELLOW FLOWER |
| HENBIT | PIGWEED, PROSTRATE |
| JIMSONWEED | PIGWEED, REDROOT |
| KNOTWEED, PROSTRATE | PURSLANE, COMMON |
| KOCHIA | ROCKET, LONDON |

.... **ACCEPTED**
with **COMMENTS**
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LADYSTHUMB
LAMBSQUARTERS, COMMON
LETTUCE, PRICKLY
MALLOW, LITTLE
MAYWEED
MUSTARD, BLUE
MUSTARD, TUMBLE

† SHEPHERDSPURSE
SMARTWEED, PENNSYLVANIA
SOWTHISTLE, ANNUAL
TANSYMUSTARD
THISTLE, RUSSIAN (seedling)
VELVETLEAF

† The highest rate or multiple applications may be required for acceptable control.

GRASSES CONTROLLED

When Goal 2XL is applied preemergence or postemergence (up to 2-leaf stage) at recommended dosages, the following annual grasses are controlled/suppressed:

BARNYARDGRASS
BLUEGRASS, ANNUAL
CRABGRASS, LARGE
FOXTAIL, GIANT
GOOSEGRASS
WITCHGRASS

Goal 2XL is most effective when applied preemergence to annual grasses. Postemergence applications should be made to seedling grasses not exceeding the 2-leaf stage. The addition of 0.25% (2 pints per 100 gallons of spray solution) of an 80% active nonionic surfactant, cleared for application to growing crops, enhances herbicidal activity on emerged weeds. When determining an appropriate use rate where a range of rates is provided, use higher rates where heavy weed pressure is anticipated, or where medium and fine soil textures exist and high organic matter soils are present.

Goal 2XL may be applied to numerous conifer and deciduous species, including the following:

CONIFER SPECIES

Common Name	Scientific Name
DOUGLAS-FIR	<i>Pseudotsuga menziesii</i>
FIR	
GRAND	<i>Abies grandis</i>
FRASER	<i>Abies fraseri</i>
NOBLE	<i>Abies procera</i>
HEMLOCK	
EASTERN HEMLOCK	<i>Tsuga canadensis</i>
WESTERN HEMLOCK	<i>Tsuga heterophylla</i>
PINE	
AUSTRIAN	<i>Pinus nigra</i>
EASTERN WHITE	<i>Pinus strobus</i>
JACK	<i>Pinus banksiana</i>
HIMALAYAN	<i>Pinus graffithii</i>
LOBLOLLY	<i>Pinus taeda</i>
LODGEPOLE	<i>Pinus contorta</i>
LONGLEAF	<i>Pinus palustris</i>
MONTEREY	<i>Pinus radiata</i>
MUGHO	<i>Pinus mugo</i>
PONDEROSA	<i>Pinus ponderosa</i>
SCOTCH	<i>Pinus sylvestris</i>
SHORTLEAF	<i>Pinus echinata</i>
SLASH	<i>Pinus elliotii</i>
VIRGINIA	<i>Pinus virginiana</i>

SPRUCE

- BLUE *Picea pungens*
- DWARF ALBERTA *Picea glauca conica*
- NORWAY *Picea abies*
- SITKA *Picea sitchensis*

ARBORVITAE

- Thuja occidentalis*
- Thuja orientalis*

JUNIPER

- Juniperus chinensis*
- Juniperus horizontalis*
- Juniperus procumbens*
- Juniperus sabina*
- Juniperus scopulorum*

RED CEDAR

- Juniperus virginiana*

YEW

- Taxus spp.*

DECIDUOUS HARDWOOD SPECIES

- ASH *Fraxinus spp.*
- CRABAPPLE *Malus spp.*
- EUCALYPTUS *Eucalyptus viminalis, E. pulverulenta, E. camaldulensis*
- LILAC *Syringa vulgaris*
- MAPLE, BLACK *Acer nigrum*
- OAK, NORTHERN RED *Quercus rubra*
- OLIVE, RUSSIAN *Elaeagnus angustifolia*
- POPLAR (COTTONWOOD) *Populus spp.*
- SWEETGUM *Liquidambar styraciflua*
- SYCAMORE *Platanus occidentalis*
- WALNUT, BLACK *Juglans nigra*

DOSAGE

Apply 4 to 8 pints (1.0 to 2.0 lb active ingredient) of Goal 2XL per broadcast acre for preemergence and postemergence weed control. The addition of 0.25% v/v (2 pints/100 gallons of spray solution) of an 80% active nonionic surfactant cleared for application on growing crops, enhances the herbicidal activity of Goal 2XL on emerged weeds.

For banded application, the amount of Goal 2XL recommended per acre for broadcast application may be reduced according to the following formula:

$$\begin{matrix} \text{Band Width (in inches)} & \times & \text{Rate per} & = & \text{Amount Needed per Acre} \\ \text{Row Width (in inches)} & & \text{Broadcast Acre} & & \text{or Banded Application} \end{matrix}$$

METHOD OF APPLICATION

CONIFERS: Goal 2XL can be applied pre-transplant, post-directed or postemergence (over the top) to conifers. Postemergence or post-directed applications should be applied prior to budbreak or after the foliage has had an opportunity to harden off.

DECIDUOUS HARDWOODS: Goal 2XL has exhibited selectivity to many deciduous species when applied pre-transplant or as a post-directed spray prior to budbreak. Special care should be taken to direct the spray toward the base of the plant. Applications made after budbreak may result in injury to the deciduous species, and are not recommended. (Note: If a non-dormant application is required, do not apply during periods of new foliage growth. Applications should be made after foliage has fully expanded and hardened off. Direct spray toward the base of the trees. Avoid direct or indirect spray contact with the foliage of the deciduous species.)

Goal 2XL should be thoroughly mixed with clean water at the recommended rate and applied at 20 to 40 psi in a minimum of 20 gallons of water per acre as a broadcast, banded or post-directed spray. Thorough spray coverage is essential to maximize the postemergence activity of Goal 2XL. Spray equipment should be calibrated carefully before each use.

Pre-transplant applications must be made after completion of soil preparation but prior to transplanting. Transplanting should be completed with minimal soil disturbance. Treated soil surfaces should be left undisturbed after transplanting to obtain the greatest benefit of Goal 2XL on susceptible annual broadleaf weeds during the time period for which weed control is desired. However, timely cultivations after weed emergence will assist in weed control.

**WINDBREAKS AND SHELTERBELTS
SPECIFIC USE RESTRICTIONS**

The following use restrictions must be observed when Goal 2XL is used as recommended on this label.

- Do not apply more than 8 pints (2.0 lb active ingredient) of Goal 2XL per treated acre per growing season as a result of single or multiple applications.
- Always apply Goal 2XL to healthy deciduous and/or conifer species.
- Do not apply Goal 2XL to conifers or deciduous that have been weakened or under stress from excessive fertilizer or soil salts, disease, nematodes, frost, drought, flooding, previously applied pesticides, soil insects, or winter injury, as severe injury may result.

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