



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

JUL 29 2002

Greg Watson, Ph.D.
Herbicides Team Leader
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27409-8300

Dear Dr. Watson:

Subject: Devrinol 2-G Ornamental Selective Herbicide
EPA Reg. No. 100-1032
Re: Label Amendments
Your submission dated April 18, 2002

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable, provided you make the following changes:

The Registrant **must**:

1. Under the label heading **Personal Protective Equipment** within the Precautionary Statements section:
 - Add the following statement to Applicators and other handlers must wear: "Chemical-resistant gloves made of any waterproof material such as Barrier Laminate, Nitrile Rubber (≥ 14 mils), Neoprene Rubber (≥ 14 mils) or Viton (≥ 14 mils)."
2. Replace the following **ENVIRONMENTAL HAZARDS** statement: "Do not contaminate water by cleaning of equipment or disposal of equipment wash waters" with "Do not contaminate water when cleaning equipment or disposing of equipment wash waters."
3. Within the **Agricultural Use Requirements** box under **PPE required for early entry . . .** :
 - Replace the statement "Waterproof gloves" with "Chemical-resistant gloves made of any waterproof material such as Barrier Laminate, Nitrile Rubber (≥ 14 mils), Neoprene Rubber (≥ 14 mils) or Viton (≥ 14 mils)."
4. Add the word "PESTICIDE" to the Storage and Disposal section of the label so that the first paragraph begins with: "PESTICIDE STORAGE."

- 6. Add **Non-Agricultural Use Requirements** box to the label that contains the following re-entry restrictions for Non-WPS occupational uses of Devrinol end-use products:

Non-Agricultural Use Requirements

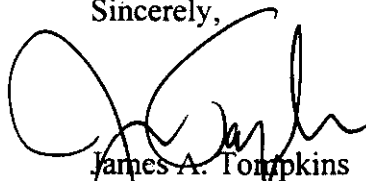
The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter the treated area until dusts have settled.

Please submit two (2) copies of your final printed label incorporating these changes before releasing your product for shipment. A stamped copy is enclosed for your records.

If you have any questions or concerns, please contact me at (703) 305-5697 or the product team reviewer Michelle Centra at (703) 308-2476.

Sincerely,



James A. Tompkins
Product Manager Team (25)
Herbicide Branch
Registration Division (7505C)

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ACCEPTED
with COMMENTS
In EPA Letter Dated
JUL 29 2002

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Devrinol 2-G Ornamental Container
DEV1032MAS. - 4/18/02

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-1032

Devrinol® 2-G Ornamental
Selective Herbicide

A preemergence herbicide for weed control in home flower gardens and landscape plantings. Use in deciduous and evergreen trees and shrubs, ground covers, perennial flowers, fruit and nut crops, container-grown plants, and turfgrass.

Active Ingredient:	
Napropamide (CAS No. 15299-99-7)	2.0%
Other Ingredients:	98.0%
Total:	100.0%

Contains 2 pounds of active ingredient per 100 pounds

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side panel for first aid statement and precautionary statements.

EPA Reg. No. 100-1032
EPA Est.

Active Ingredient Made in UK, Formulated and Packaged in USA

SCP #

50 Pounds
NET WEIGHT

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FIRST AID	
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none">• 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 swallowed	<ul style="list-style-type: none">• 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 inhaled	<ul style="list-style-type: none">• 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 a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24 Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident), Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Avoid contact with skin, eyes and clothing. May be harmful if swallowed. Do not breathe dust. Avoid contamination of food and feed.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

<p>User Safety Recommendations</p> <p>Users should:</p> <ul style="list-style-type: none"> ● Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. ● Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. ● Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

General Precautions

- Read all instructions before using.
- Use only for recommended purposes and at recommended rates.
- Do not overdose.

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CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Apply this product as specified on this label.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Keep container closed when not in use. Store in a cool dry place. Do not store near seeds, fertilizer, or foodstuffs.

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 into application equipment. 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.

WHAT THIS PRODUCT DOES

Devrinol 2-G Ornamental controls certain annual grassy and broadleaf weeds as they germinate. It does not control established weeds. The weeds controlled are listed below:

WEEDS CONTROLLED BY DEVRINOL 2-G ORNAMENTAL	
ANNUAL GRASSES:	
Barnyardgrass, Junglerice	<i>Echinochloa</i> spp.
Wild Barley	<i>Hordeum leporinum</i>
Annual Bluegrass	<i>Poa annua</i>
Bromes	<i>Bromus</i>
Cheatgrass	<i>B. secalinus</i>
Downy Brome	<i>B. tectorum</i>
Ripgut Brome	<i>B. rigidus</i>
Soft Chess	<i>B. mollis</i>
Large (Hairy) Crabgrass	<i>Digitaria sanguinalis</i>
Smooth Crabgrass	<i>Digitaria ischaemum</i>
Southwestern Cupgrass	<i>Eriochloa gracilis</i>
Foxtails	<i>Setaria</i>
Bristly Foxtail	<i>S. verticilla</i>
Giant Foxtail	<i>S. faberi</i>
Green Foxtail	<i>S. viridis</i>
Yellow Foxtail	<i>S. lutescens</i>
Goosegrass	<i>Eleusine indica</i>

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WEEDS CONTROLLED BY DEVRINOL 2-G ORNAMENTAL	
Seedling Johnsongrass	<i>Sorghum halepense</i>
Wild Oats	<i>Avena fatua</i>
Panicums	<i>Panicum</i>
Guineagrass	<i>P. maximum</i>
Fall Panicum	<i>P. dichotomiflorum</i>
Texas Panicum	<i>P. texanum</i>
Witchgrass	<i>P. capillare</i>
Italian Ryegrass	<i>Lolium multiflorum</i>
Sandbur	<i>Cenchrus spp.</i>
Red Sprangletop	<i>Leptochloa filiformis</i>
Stinkgrass	<i>Eragrostis cilianensis</i>
ANNUAL BROADLEAF WEEDS:	
Carpetweed	<i>Mollugo verticillata</i>
Common Chickweed	<i>Stellaria media</i>
Coast Fiddleneck	<i>Amsinckia intermedia</i>
Filaree	<i>Erodium spp.</i>
Groundsel	<i>Senecio spp.</i>
Prostrate Knotweed	<i>Polygonum aviculare</i>
Lambsquarters	<i>Chenopodium album</i>
Prickly Lettuce	<i>Lactuca serriola</i>
Little Mallow*	<i>Malva parviflora</i>
Redroot Pigweed	<i>Amaranthus retroflexus</i>
Pineappleweed	<i>Matricaria matricarioides</i>
Common Purslane	<i>Portulaca oleracea</i>
Horse Purslane	<i>Trianthema portulacastrum</i>
Common Ragweed**	<i>Ambrosia artemisiifolia</i>
Annual Sowthistle	<i>Sonchus oleraceus</i>

*From seed

**Suppression

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WHERE TO USE THIS PRODUCT

Devrinol 2-G Ornamental can be applied over small ornamental plants or around larger plants in rose gardens, container plantings, ornamental landscapes and ground covers including dichondra.

Use Devrinol 2-G Ornamental for weed control in the following plants:

Deciduous and Evergreen Trees

- | | | |
|--------------|-----------------------------|-------------|
| Acer | Eucalyptus | Picea |
| Ash | Ficus | Pin Oak |
| Birch | Fir | Pinus |
| Black Walnut | Gleditsia | Pittosporum |
| Cedar | Hemlock | Podocarpus |
| Citrus | Japanese Larch | Populus |
| Crataegus | Laburnum | Prunus |
| Cypress | Malus | Pears |
| Dogwood | Olive (Olea) | Pistachios |
| Douglas Fir | Palm (Washingtonia robusta) | |

Deciduous and Evergreen Shrubs

- | | | |
|-----------------------|------------------------|--------------|
| Abelia | Forsythia | Oleander |
| Asparagus (Sprengeri) | Gardenia | Osmanthus |
| Aucuba | Heather (Calluna) | Photinia |
| Azalea | Hibiscus | Pittosporum |
| Bottlebrush | Honeysuckle (Lonicera) | Podocarpus |
| Bougainvillea | Hypericum | Pyracantha |
| Buxus | Ilex | Raphiolepis |
| Camellia | Juniperus | Rhododendron |
| Cotoneaster | Leucothe | Rosa |
| Crepe Myrtle | Ligustrum | Star Jasmine |
| Dogwood | Nandina | Taxus |
| Euonymus | Natal Plum | Viburnum |
| | | Xylosema |

Ground Covers

- | | | |
|-------------|-----------|-------------|
| Ajuga | Hedera | Liriope |
| Carpobrotus | Hypericum | Osteosperma |
| Delosperma | Iceplant | Pachysandra |
| Dichondra | Ivy | Sedum |
| Erysimum | Lantana | Vinca |
| Ganzania | | |

CONTAINER STOCK

Abelia	Eucalyptus	Pachysandra
Agapanthus	Euonymus	Palm (Washingtonia robusta)
Ageratum	Fir	Photinia
Asparagus	Forsythia	Pinus spp.
Azalea	Gardenia	Pittosporum
Bottlebrush	Geranium	Podocarpus
Bougainvillea	Heather	Pyracantha
Buxus	Hedera	Raphiolepis
Camellia	Hibiscus	Rhododendron
Cedar	Ilex	Rosa
Cotoneaster	Juniperus	Sedum
Crepe Myrtle	Leucothe	Star Jasmine
Cypress	Ligustrum	Thuja
Dogwood	Liriope	Vinca
Douglas Fir	Nandina	Xylosema

Flowers

African Daisy	Chrysanthemum	Narcissus
Aster	Dahlia	Petunia
Bird of Paradise	Daisy	Plantain Lily (Hosta)
	Geranium	Zinnia
	Gladiolus	

Fruit and Nuts

Almond	Lemon	Pistachio
Apple	Nectarine	Plum
Apricot	Orange	Prune
Cherry	Peach	Tangerine
Filbert	Pear	Walnut
Grape	Pecan	

Strawberry: (Applications should be delayed until the desired number of daughter plants have become established. Do not apply from bloom through harvest.)

WHEN TO USE THIS PRODUCT

Devrinol 2-G Ornamental should be used before weeds germinate. It will not control established weeds.

Application can be made anytime of the year to weed-free soil. Fall and winter applications will provide excellent weed control the following spring and summer.

In containers, apply after setting and watering the plants.

Devrinol 2-G Ornamental should be spread evenly on the soil surface using a shaker can or granular herbicide applicator.

Do not apply when weather conditions favor drift from areas treated.

When weed infestation is heavy or when broadleaves are the primary weeds, use one pound on 145 square feet (6.9 lbs./1,000 sq. ft.). For annual grassy weeds or when weed infestation is light, use one pound on 218 square feet (4.6 lbs/1,000 sq. ft.).

Do not apply more than 4.6 lbs of Devrinol 2-G per 1,000 sq. ft. in California.

Devrinol 2-G Ornamental should be incorporated evenly into the soil using a hand cultivator to a depth of 1-2 inches or irrigation or natural moisture (rainfall or snow) (½ inch within 2-3 days) for optimum results.

For weed control in dichondra, apply at the time of seeding or to establish dichondra including dichondra sod. Irrigate with a minimum of one inch of water.

TURF GRASS

(For Use on Warm Season Grasses Only)

Devrinol 2-G Ornamental controls annual bluegrass, crabgrass and goosegrass in the following established turf grasses: bahia, bermudagrass, centipede, St. Augustine and fescue.

TIMING OF APPLICATION:

For control of crabgrass and goosegrass, apply Devrinol 2-G Ornamental at the rate given below. Application should be made 2-3 weeks prior to weed emergence. Devrinol 2-G Ornamental should be applied with a gravity flow drop spreader or a cyclone type spreader. A more uniform application can be made by spreading half the required amount over the area to be treated, then applying the remainder at right angles.

Devrinol 2-G Ornamental requires a minimum of one half (½) inch of rainfall or irrigation 2-3 days after application for adequate control. If irrigation methods are not available, the timing of the application of Devrinol 2-G Ornamental should be moved back several weeks to allow for some rainfall between application and weed germination.

RATES OF APPLICATION:

For Crabgrass Control: Apply 100 to 150 lbs. of Devrinol 2-G Ornamental uniformly per acre (2.25-3.38* lbs per 1,000 sq. ft.). Use the higher rate when applying before January 1 (not applicable north of South Carolina or when weed infestation is expected to be heavy).

*Use the higher rate when weed infestation is expected to be heavy.

For Goosegrass Control: Apply 100 to 150 lbs. of Devrinol 2-G Ornamental per acre (2.25-3.38 lbs. per 1,000 sq. ft.). Goosegrass usually starts to germinate 6 to 7 weeks after the start of crabgrass germination.

Split Application for Crabgrass and Goosegrass Control: When both of these weeds are to be controlled, apply 100 lbs. of Devrinol 2-G Ornamental spread uniformly per acre (2.25 lbs. per 1,000 sq. ft.) for crabgrass and another 100 lbs. of Devrinol 2-G Ornamental per acre for goosegrass. Apply 8-10 weeks apart. Timing should be adjusted to the germination of weeds in your area. Split applications give longer and better weed control than one application.

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For Annual Bluegrass (Poa Annua) Control: Annual bluegrass is a winter annual in most of the warm season turf regions; therefore, application of Devrinol 2-G Ornamental should be made in the fall before the annual bluegrass germinates. Apply 100-150 lbs. of Devrinol 2-G Ornamental per acre (2.25-3.38 lbs. per 1,000 sq. ft.).

Reseeding: Do not reseed or overseed within six months after application.

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For non-emergency (e.g. current product information) call
Syngenta Crop Protection at 1-800-334-9481.

Product of the UK.
Formulated and packaged in the USA.

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

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