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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

DEC 7 1998

Jeannie Smith  
Platte Chemical Company  
P.O. Box 667  
Greeley, CO 80632

Subject: Napropamide-Oxadiazon  
Registration Number 34704-771  
Your submission dated September 17, 1998

Dear Ms. Smith:

The label amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable, provided that you adhere to the following requirements:

1. You must make the following changes to your proposed label:

a. In the STATEMENT OF PRACTICAL TREATMENT, change the order of the statements so that the "If swallowed" statement is first, followed by the rest of the statements in their current order.

b. In the AGRICULTURAL USE REQUIREMENTS section, delete the following (because the use directions state that the product cannot be soil-incorporated):

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.

c. In the last paragraph of the AGRICULTURAL USE REQUIREMENTS section, delete the subheading "Directions for use:", and replace the paragraph with the following:

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, wear: coveralls, shoes plus socks, and waterproof gloves.

d. In the GENERAL PRECAUTIONS section, add the following statement:

Treated plants may not be used for food or feed for one year after the last application of this product.

e. In the first sentence of the last paragraph of the "Sensitive Varieties" section, change "plant species" to "ornamental plant species"..

f. In the "Amount to Use" section, add the following sentence:

Do not apply more than 3.44 pounds per 1000 square feet.

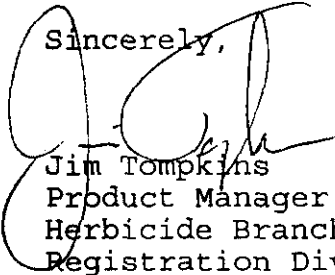
2. Submit one copy of your final printed labeling before you release the product for shipment.

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 of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

If you have any questions about this letter, please contact Tobi Colvin-Snyder of my staff at 703-305-7801.

Sincerely,

  
Jim Tompkins  
Product Manager (25)  
Herbicide Branch  
Registration Division (7505C)

# Napropamide-Oxadiazon

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

## 4-2 Granules

DEC 7 1998

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

34704-771

#### Active Ingredients:

Napropamide .....	4.0%
Oxadiazon: 2-tert-butyl-4-(2,4-dichloro-5- isopropoxyphenyl)-z-1,3,4-oxadiazolin-5-one .....	2.0%
Inert Ingredients: .....	94.0%
Total .....	100.0%

**Selective, Pre-emergent Granular Herbicide for Control of Annual Grasses and Broadleaf Weeds in Container, Field Grown Nursery Stock, Liner Stock, Ground Covers, Shade/Lath Houses, and Landscape Ornamentals**

### KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

EPA REG. NO. 34704-771

EPA EST. NO. 34704-NB-01

NET WEIGHT: 50 LBS. (22.68 kg)

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### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing. Wear long-sleeved shirt and long pants, socks and shoes with waterproof gloves. Wash thoroughly with soap and water after handling.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Follow manufacturer's instructions for cleaning and 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 with 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.

#### USER SAFETY RECOMMENDATIONS

Users should 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.

#### STATEMENT OF PRACTICAL TREATMENT

**If on Skin:** Wash with plenty of soap and water. Get medical attention.

**If in Eyes:** Flush eyes with plenty of water. Get medical attention if irritation persists.

**If Swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**If Inhaled:** Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-228-5635, EXT. 136, OR CALL COLLECT, 612-851-6180, EXT. 136.**

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from areas treated. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters. Apply only as specified on this label.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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. Do not apply this product through any type of irrigation system.

#### 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. 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 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.

**Directions for Use:** 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, wear: coveralls over long-sleeved shirt and long pants, socks and chemical-resistant footwear and waterproof gloves.

#### 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. Keep children and pets out of treated areas until dusts have settled.

#### STORAGE AND DISPOSAL

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

**Storage:** Store product in its original bag, in a cool, dry, locked place out of the reach of children. Keep container closed when not in use.

**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.

# Napropamide-Oxadiazon 4-2 Granules

EPA REG. NO. 34704-771

## GENERAL INFORMATION

This product is a selective, pre-emergent herbicide for control of many annual grasses and broadleaf weeds in turf and on a wide variety of woody ornamental shrubs, vines, and trees. This product controls weeds by killing the young weed seedlings as they come in contact with the herbicide during germination.

Apply with a properly calibrated granular applicator that will apply the granules uniformly (uniform application is essential for satisfactory weed control). Calibrate the applicator prior to use, according to the manufacturer's directions, and check frequently during the application to be certain that the equipment is working properly.

Do not allow domestic animals to graze treated areas. Avoid contamination of water intended for irrigation and domestic purposes.

This product can be applied to newly planted container stock after soil has settled from first watering, field-grown nursery stock, dichondra, and to established plants.

This product is recommended on several different container potting soil mixtures. These mixtures include those containing 30% soil and/or sand and mixtures containing no soil (e.g., perlite, peat, bark, sawdust, and sand).

This product does not control established weeds. It must be applied to freshly weeded soil before weeds germinate or during fall and winter months.

## GENERAL PRECAUTIONS

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

## HOW TO USE

### Woody Ornamental Shrubs, Vines, Trees, and Conifer Nursery Application\*

For maximum weed control, apply prior to weed seed germination. This product can be applied to both newly transplanted and established ornamentals. Application can be made to actively growing or dormant ornamentals. Rainfall or overhead irrigation after application will improve weed control activity. This product must not be mixed into the soil. Cultivating or disturbing the soil may reduce the weed control activity of this product. Do not apply in greenhouses as plant injury may result from codistillation of this product's active ingredients onto leaf surfaces in condensation. Do not apply to wet foliage. Under normal conditions expect control for 90-120 days. Repeat application at 3 month intervals.

\*Conifer Nursery Application is Not a Registered Use in California.

This product may be used on the following established ornamentals and ground covers.

Agapanthus	Ajuga
Arborvitae	Ash, green
Azalea**	Bay, or Bay-rum tree
Boxwood, Japanese	Birch, paper
Bougainvillea	Black-laurel
Camellia, Japanese	Boxwood, common
Cedar, red	Camellia, common
Citrus, ornamental (lime, tangelo, temple, cuban shaddock)	Camellia, sasanqua
Cotoneaster**	Cedar, atlas
Croton	Crape myrtle**
Cypress	Cypress, leyland
Dogwood, common	Dogwood, red oler
Dogwood, kousa	Douglas fir
Eucalyptus	Euonymus, spreading
Euonymus, wintercreeper	Forsythia
Gardenia	Gazania, trailing
Heather, Scotch	Hemlock, eastern **
Hibiscus, Chinese or Hawaiian	Honeysuckle
hibiscus (crooked Celia, Jane Cowell crooked Rose, hulagirl)**	Ice plant
Holly	Ivy, English
Ixora	Jasmine, primrose
Ivy, Algerian	Jasmine, showy
Jasmine, orange	Lantana, trailing
Jasmine, star	or Weeping lantana
Juniper	Leucothoe, coast
Larch, European	Lily-of-the-Nile
Leucothoe, drooping	Myrtle, wax
Magnolia, southern	Nandina or Sacred bamboo
Maple	Oleander
Oak	including Dwarf oleander
Osmanthus	Palm (bamboo, fishtail, licuala
	Macarthur, manac, maniala,
	parlor, rattan, sealing wax, sugar)

Palmetto, wax  
Photinia, fraser  
Pine including Spruce Pine or Cedar Pine  
Pittosporum, Japanese  
Plum, natal  
Poplar  
Raphiolepis  
Rose  
Shower-of-gold  
Spruce\*\*  
Viburnum  
including Sandankwa\*\*  
Yew

Podocarpus, yew  
Pyracantha  
Redbud, eastern  
Rhododendron\*\*  
Sedum  
Trailing African daisy  
Xylosma

\*\*Varietal Sensitive, Refer to Sensitive Varieties Section for Additional Information

## Sensitive Varieties

Under certain growing conditions, the plant varieties listed below may be sensitive to this product. Growers should evaluate usage on a small scale prior to large scale applications.

Plant Species	Varieties
Andromeda, Japanese (Pieris japonica)	Snowdrift, Temple bell
Azalea (Rhododendron spp.)	Pink champagne, Hershey, Leuchtenfuer, Memoire John Hearrens, Hino-crimson, White grandeur, Everest, Girard Roberta
Cotoneaster (Cotoneaster spp.)	Elchholz, Himalayan, Shangri-la
Crape Myrtle, common (Lagerstroemia indica)	Petite red imp, Seminole bush
Heath, spring (Erica carnea)	Mediterranean pink
Hemlock, Eastern (Tsuga canadensis)	pendula
Hibiscus (Hibiscus syriacus)	Red heart
Rhododendron (Rhododendron spp.)	Daphnoides, Nova zembia, Catawba album
Spruce, Norway (Picea abies)	Pumila
Spruce, white (Picea glauca)	Densata
Viburnum (Viburnum spp.)	Davidii

Users who wish to apply this product on plant species not recommended on this label may determine the suitability for such uses by making a trial application at a recommended rate to a small number of plants. Prior to using this product on a large number of plants, the treated plants should be observed for any sign of herbicidal injury during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. The user assumes responsibility for any plant damage or other liability resulting from the use of this product on plant species not recommended on this label.

## Amount to Use

Ground Application - Apply broadcast or banded to ornamentals at 100 to 150 pounds of product per broadcast acre (or 2.25 to 3.44 pounds per 1000 square feet). Use the higher rate for harder-to-control weeds and the lower rate for easier-to-control weeds. Remove existing weed/grass growth before application.

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**Annual Broadleaf Weeds**

Bittercress	Liverwort
Bristly ox-tongue	Niruri
Carpetweed	Pennsylvania smartweed
Coast fiddleneck	Petty spurge
Common chickweed	Pineapple-weed
Common groundsel	Prickly lettuce
Common mallow (Cheeseweed)	Prostrate knotweed
Common purslane	Prostrate spurge
Common ragweed	Redroot pigweed
Evening primrose	Sensitive plant, (Partridge pea)
Flaree	Shepherdspurse
Fireweed	Sowthistle
Galinsoga	Speedwell
Garden spurge	Spiny amaranth
Golden ragwort	Spotted catsear
Horse purslane	Swinecress
Lambsquarters	Yellow woodsorrel
Little mallow	

**Annual Grasses**

Annual bluegrass	Large crabgrass
Annual sedge	Red sprangletop
Barnyardgrass	Ripgut brome
Bristly foxtail	Sandbur
Cheatgrass ( <i>Bromus tectorum</i> )	Smooth crabgrass
Downy brome ( <i>Bromus tectorum</i> )	Soft brome ( <i>Bromus mollis</i> )
Fall panicum	Southwestern cupgrass
Giant foxtail	Stinkgrass
Goosegrass	Texas panicum
Green foxtail	Wild barley
Guineagrass	Wild oats
Italian ryegrass	Witchgrass
Johnsongrass, seedling	Yellow foxtail

**NOTICE**

PLATTE WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSES STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL USE CONDITIONS. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. PLANT INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE. IN NO CASE SHALL PLATTE BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

EXCEPT AS EXPRESSLY PROVIDED HEREIN, PLATTE MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND PLATTE'S TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

**FORMULATED FOR**  
**PLATTE CHEMICAL CO.**

150 SO. MAIN STREET

FREMONT, NEBRASKA 68025-5697