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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Ms. Rebecca Horton  
Bonide Products, Inc.  
6301 Sutliff Road  
Oriskany, NY 13424

OCT 18 2010

Subject: Label Amendment: Request to maintain the signal word "Caution" and associated precautionary language per the Agency's recent review and acceptance of an acute primary eye study supporting registration of the source product  
Product Name: BONIDE Lawn Weed Killer  
EPA Reg. No. 4-400  
Application Dated July 23, 2010

Dear Ms. Horton:

The label amendment referred to above (maintaining the "Caution" signal word and associated language), submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

A stamped copy of your labeling is enclosed for your records. You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after the next printing must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. Amended labeling will supercede all previously accepted ones.

Sincerely,

A handwritten signature in black ink, appearing to read "Kathryn V. Montague".

Kathryn V. Montague  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated:**

**OCT 18 2010**

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

4-400



# LAWN WEED KILLER

[Additional Brand Names: BONIDE® Weed Beater Lawn Weed Killer; Orchard™ Est. 1931 Lawn Weed Killer Concentrate; Lawn Weed Killer Concentrate]

### Optional Marketing Statements:

- One Quart Covers Up to 8,000 Square Feet
- Controls Dandelion, Chickweed, Knotweed, Henbit, Plantain, Clover, Spurge, and many other broadleaf weeds including those shown on side/back panel.
- **KEEP FROM FREEZING**
- For Use On: Bahiagrass, Bermudagrass, Kentucky Bluegrass, Perennial Ryegrass, Zoysiagrass, Centipedegrass and St. Augustinegrass
- Apply using a tank or hose-end sprayer. (see inside booklet for complete directions for use)
- Kills even the tough weeds...roots and all!
- Controls even the tough weeds...roots and all!
- Treats northern and southern grasses.
- Kills the root.
- One quart treats up to 16,000 square feet. (Southern grasses)
- Water based.
- Won't harm lawn grass when used according to label directions.
- Kills [Controls] 200+ broadleaf weeds.
- Starts working overnight
- Won't harm lawn grass [lawns] (when used as directed)
- Controls (Number) weeds!
- Mixes with Water – Concentrate
- Treated areas for this container vary from 16,000 square feet (Northern Grasses) to 32,000 square feet (Southern Grasses)

### • CONTROLS

- **SENSITIVE WEEDS:** Bedstraw, Black Medic, Buckhorn, Chickweed, Clover, Dandelion, Knotweed, Lambsquarters, Peppergrass, Plantain, Purslane, Ragweed, Sheperdspurse, and Wild Lettuce.
- **HARD-TO-KILL WEEDS:** Chicory, Creeping Charlie, Creeping Jenny, Dock, Ground Ivy, Heal-All, Lespedeza, Mallow, Morningglory, Oxalis, Pigweed, Poison Ivy, Poison Oak, Sheep Sorrel, Speedwell, Spurge, Wild Carrot, Wild Onion, Yarrow and many other broadleaf weeds.
- For 16 fl.oz. retail container: Lawn areas for this container vary from 4,000 sq.ft.(Northern grasses) to 8,000 sq.ft.(Southern grasses).
- For 32 fl.oz. retail container: Lawn areas for this container vary from 8,000 sq.ft.(Northern grasses) to 16,000 sq.ft.(Southern grasses).
- For One Gallon retail container: Lawn areas for this container vary from 32,000 sq.ft.(Northern grasses) to 64,000 sq.ft.(Southern grasses).
- For outdoor use
- Controls dandelion, spurge, chickweed and many other hard-to control weeds.
- Contains Trimec® Herbicide

[label to feature use rate equivalents for coverage of different size containers]

### ACTIVE INGREDIENTS:

2,4-D, dimethylamine salt .....	7.59%
Mecoprop-p, dimethylamine salt .....	1.83%
Dicamba, dimethylamine salt .....	0.34%

### OTHER INGREDIENTS: .....

86.74%

### TOTAL .....

100.00%

**THIS PRODUCT CONTAINS:**

- 0.54 lb 2,4-dichlorophenoxyacetic acid equivalent per gallon or 6.30%
- 0.13 lb (+)-(R)-2-(2-methyl-4-chlorophenoxy)propionic acid equivalent per gallon or 1.51%
- 0.06 lb 3,6-dichloro-o-anisic acid equivalent per gallon or 0.70%

Isomer Specific by AOAC Method.

2,4-D, dimethylamine salt (CAS Registry No. 2008-39-1)

Mecoprop-p, dimethylamine salt (CAS Registry No. 66423-09-4)

Dicamba, dimethylamine salt (CAS Registry No. 2300-66-5)

Note: If the design, format, or small size of the container labels makes it impractical to present the entire ingredient statement on the front panel, then add a referral statement and present this substatement on the back panel: "See back panel for substatement of ingredient statement".

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See back/side/other panel(s) for additional Precautionary Statements and First Aid.

NET CONTENTS: \_\_\_\_\_

<b>First Aid</b>	
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or on clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>HOT LINE NUMBER:</b> Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.</p>	

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt, long pants, socks, shoes and gloves. Remove and wash contaminated clothing before reuse.

### Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates and may adversely affect non-target plants. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### PRECAUTIONS AND RESTRICTIONS:

- Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during application. Do not allow people or pets to enter the treated area until sprays have dried.
- Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.
- Use only lawn-type sprayers. Do not spray on carpetgrass, dichondra, nor on lawns or turf where desirable clovers are present. Do not exceed specified dosages for any area.
- Schedule the herbicide applications when air temperatures are 60° to 90°F with good soil moisture. Avoid applications during the spring transition of the warm season grasses and during periods of extremely high temperatures. The tolerance of warm season grasses decreases at air temperatures greater than 90°F and when turfgrass is drought stressed.
- The turf tolerance of centipedegrass and St. Augustinegrass can range from sensitive to tolerant. Do not apply this product to 'Floritam' St. Augustinegrass in Florida.
- Do not apply as a fine mist because of potential for injury to desirable plants.
- Do not use this product on or near desirable plants, including contact of spray on exposed root systems or adventitious shoots within the drip line of desirable trees and shrubs, since injury may result.
- Do not apply directly to or near water, storm drains, gutters, sewers, or drainage ditches. Do not apply within 25 feet of rivers, fish ponds, lakes, streams, reservoirs, marshes, estuaries, bays, and oceans. Do not apply when windy. To prevent product run-off, do not over water the treated area(s) to the point of runoff or apply when raining or when rain is expected that day. Rinse sprayer over lawn area only.

### WHERE TO USE:

[BONIDE Lawn Weed Killer may be used][Use] on bahiagrass, bermudagrass, Kentucky bluegrass, fescue, perennial ryegrass, zoysiagrass, centipedegrass, and St. Augustinegrass lawns, vacant lots, playgrounds and other similar areas where broadleaf weeds are present. This product is especially effective on all hard-to-kill weeds such as poison ivy, poison oak, sheep sorrel and spurge. In addition, this product controls most other broadleaf weeds, including sensitive weeds such as chickweed, clover, dandelion, knotweed and plantain.

### WHEN TO USE:

1. Spray during the growing season when weeds are actively growing.
2. On new lawns, wait until the grass has reached a height of 2 inches before making an overall spray treatment. However, a spot treatment may be made at any time with a small pressure sprayer. Wait 3 weeks before seeding or planting stolons, plugs, or sprigs.
3. Poor weed control may result if spray is applied during drought or just before rain.
4. For best results, mow before treating.
5. Do not water lawn within 24 hours after treatment.

**HOW MUCH TO USE (Entire Lawn):**

**Hose End Sprayer:**

Use a hose end sprayer designed for lawns. Pour specified amount of product (Column 1) in bottle and add water to indicated level (Column 2), and spray on area shown in Column 3. For example, to spray 2,500 square feet measure 10 fluid ounces (20 tablespoons) in jar, add water to the 10 gallon level, and mix. Turn on hose and spray as evenly as possible over 2,500 square feet.

**Chart 1:** Amounts of BONIDE Lawn Weed Killer for bahiagrass, bermudagrass, Kentucky bluegrass, fescues, perennial ryegrass, and zoysiagrass lawns applied with hose end sprayers.

Column 1 Amount of Lawn Weed Killer to Use		Column 2 Fill Bottle to	Column 3 Area to Treat
(Tablespoons)	(Fluid Ounces)	(Gallons)	(Square Feet)
10	5	5	1,250
20	10	10	2,500
30	15	15	3,750
40	20	20	5,000

Note: For the grasses in Chart 1, apply the entire contents of this container (32 fluid ounces) on 8,000 square feet of turf.

**Chart 2:** Amounts of BONIDE Lawn Weed Killer for centipedegrass and St. Augustinegrass lawns applied with hose end sprayers.

Column 1 Amount of Lawn Weed Killer to Use		Column 2 Fill Bottle to	Column 3 Area to Treat
(Tablespoons)	(Fluid Ounces)	(Gallons)	(Square Feet)
10	5	5	2,500
20	10	10	5,000
30	15	15	7,500
40	20	20	10,000

Note: For St. Augustinegrass and centipedegrass apply the entire contents of this container (32 fluid ounces) on 16,000 square feet of turf.

**Pressure Sprayers:**

Measure indicated amount of BONIDE Lawn Weed Killer, pour into tank, and dilute with water according to the following charts. Use a spray pattern that gives small [coarse] spray droplets without any fine mist, and cover the area indicated.

**Chart 3:** For bahiagrass, bermudagrass, Kentucky bluegrass, fescues, perennial ryegrass, and zoysiagrass lawns with pressure or tank type sprayers.

Amount of Lawn Weed Killer to Use		Amount of Water in Sprayer (Gallons)	Area To Treat (Square Feet)
(Tablespoons)	(Fluid Ounces)		
2	1	1	250
4	2	2	500
6	3	3	750

**Chart 4:** For centipedegrass and St. Augustinegrass lawns with pressure or tank type sprayers.

Amount of Lawn Weed Killer to Use		Amount of Water in Sprayer (Gallons)	Area To Treat (Square Feet)
(Tablespoons)	(Fluid Ounces)		
2	1	1	500
4	2	2	1,000
6	3	3	1,500

**Limitations on broadcast applications to residential turfgrass:**

The maximum application rate is 4.0 fl.oz. of product per 1,000 sq.ft. per application (0.74 lb 2,4-D ae, 0.18 lb MCP-P ae and 0.08 lb dicamba ae per acre per application). The maximum number of broadcast applications is limited to 2 per year with a minimum of 30 days between applications. The maximum seasonal rate is 8.0 fl.oz. of product per 1,000 sq.ft. (1.47 lb 2,4-D ae, 0.35 lb MCP-P ae and 0.16 lb dicamba ae per acre).

**Spot Spraying [Treatment]:**

To spray small areas or individual weeds, do not use a hose end sprayer. Refer to Chart 3 or Chart 4 for mixing instructions. Spray as needed and be certain to wet the weeds.

**Limitations on spot treatments to residential turfgrass:**

Spot treatment is defined as a treatment area no greater than 1,000 sq.ft. per acre. The maximum application rate is 4.0 fl.oz. per 1,000 sq.ft. per application (0.18 lb MCP-P acid equivalent per acre). The maximum number of spot treatments is limited to 2 per year with a minimum of 30 days between applications.

BROADLEAF WEEDS			
Annual yellow sweetclover	Cockle	Mugwort	Speedwell
Aster	Cocklebur	Musk thistle	Spiny amaranth
Austrian fieldcress	Common mullein	Mustard	Spiny cocklebur
Bedstraw	Creeping Jenny (Creeping Charlie)	Narrowleaf plantain	Spotted catsear
Beggarticks	Cudweed	Narrowleaf vetch	Spotted spurge
Betony, Florida	Curly dock	Nettle	Spurweed
Bindweed, field	Daisy, English	Orange hawkweed	Stinging nettle
Bird vetch	Daisy, fleabane	Oriental cocklebur	Strawberry, India mock
Bitter wintercress	Daisy, oxeye	Oxalis	Tall nettle
Bittercress, hairy	Dandelion	Parsley-piert	Tall vervain
Bitterweed	Dichondra	Parsnip	Tansy ragwort
Black-eyed Susan	Dogbane	Pearlwort	Tansy mustard
Black medic	Dogfennel	Pennycress	Tanweed
Black mustard	Dollarweed	Peppergrass	Thistle
Blackseed plantain	Elderberry	Pepperweed	Trailing crownvetch
Blessed thistle	False dandelion	Pigweed	Tumble mustard
Bloodflower milkweed	Falseflax	Pineywoods bedstraw	Tumble pigweed
Blue lettuce	False sunflower	Plains coreopsis (tickseed)	Velvetleaf
Blue vervain	Fiddleneck	Plantain	Venice mallow
Bracted plantain	Florida pusley	Poison ivy	Virginia buttonweed
Brassbuttons	Frenchweed	Poison oak	Virginia creeper
Bristly oxtongue	Galinsoga	Pokeweed	Virginia pepperweed
Broadleaf dock	Goathead	Poorjoe	Wavyleaf bullthistle
Broadleaf plantain	Goldenrod	Prairie sunflower	Western clematis
Broomweed	Ground ivy	Prickly lettuce	Western salsify
Buckhorn	Gumweed	Prickly sida	White mustard
Buckhorn plantain	Hairy fleabane	Prostrate knotweed	Wild aster
Bulbous buttercup	Hawkweed	Prostrate pigweed	Wild buckwheat
Bull thistle	Healall	Prostrate spurge	Wild carrot
Bullnettle	Heartleaf drymary	Prostrate vervain	Wild four-o'clock
Burclover	Heathaster	Puncturevine	Wild garlic
Burdock	Hedge bindweed	Purslane, common	Wild geranium
Burning nettle	Hedge mustard	Ragweed	Wild lettuce
Burweed	Hemp	Red sorrel	Wild marigold
Buttercup	Henbit	Redroot pigweed	Wild mustard
Buttonweed	Hoary cress	Redstem filaree	Wild onion
Canada thistle	Hoary plantain	Rough cinquefoil	Wild parsnip
Carolina geranium	Hoary vervain	Rough fleabane	Wild radish
Carpetweed	Horsenettle	Russian pigweed	Wild rape
Catchweed bedstraw	Jimsonweed	Russian thistle	Wild strawberry
Catnip	Knawel	Scarlet pimpernel	Wild sweet potato
Catsear		Scotch thistle	Wild vetch

BROADLEAF WEEDS			
Chickweed, common	Knotweed	Sheep sorrel	Woodsorrel
Chickweed, mouseear	Kochia	Shepherdspurse	Woolly croton
Chicory	Lambsquarters	Slender plantain	Woolly morningglory
Cinquefoil	Lespedeza	Smallflower galinsoga	Woolly plantain
Clover, crimson	Mallow	Smooth dock	Wormseed
Clover, hop	Matchweed	Smooth pigweed	Yarrow
Clover, red	Mexicanweed	Sorrel	Yellow rocket
Clover, strawberry	Milk vetch	Sowthistle	Yellowflower pepperweed
Clover, sweet	Morningglory	Spanishneedles	and other broadleaf weeds
Clover, white	Mouseear hawkweed	Spiny sowthistle	

**STORAGE AND DISPOSAL**

**PESTICIDE STORAGE:** Keep from freezing. Store and transport in an upright position. Store in original container in a locked storage area inaccessible to children and pets.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**LIMITED WARRANTY AND DISCLAIMER**  
 FOR USE ONLY AS DIRECTED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO CASE SHALL THE MANUFACTURER BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. If these terms are not acceptable, return this product unopened immediately to the point of purchase, and the purchase price will be refunded in full. The terms of this LIMITED WARRANTY AND DISCLAIMER cannot be varied by any written or verbal statements or agreements at the point of sale or elsewhere.

For information on pesticide products (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

**Bonide Products, Inc.**  
 6301 Sutliff Road  
 Oriskany, NY 13424

[Lot No. added at production]