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4-22-2008

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

April 22, 2008

Sheila Kendrick The Scotts Company 14111 Scottslawn Road Marysville, Ohio 43041

Subject: Ortho Sevin Liquid Brand Carbaryl Insecticide EPA Reg. No. 239-2628 Carbaryl-Remove Poultry Label Received April 16, 2008

Dear Ms. Kendrick;

The label referred to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the following changes:

- Pg. 1 Revise "Kills: Chiggers, Centipedes, Scorpions, Spiders, Fleas, Mosquito adults and Ticks (which may transmit Lyme disease) to read "Kills Fleas, Mosquito adults and Brown dog ticks (which may transmit Lyme disease). Asterisk the word "Kills" and on the front panel add "\*Will only kill pests present at the time of application. Pest must be directly contacted to be effective. Contact as many pests as possible. Non-residual treatment."
- Pg. 1 Specify "Also kills Brown dog ticks which may transmit Lyme disease."
- Pg. 1. Delete the term "lawns". (Note: In order to market this product on lawns, a separate label would need to be submitted with directions for use for a ready-to-use hose end sprayer in a pint container).
- Pg. 2 Delete reference to "Home Lawns" and "Home Recreation Areas".



- Pg. 2 Specify "Brown dog ticks", instead of "Ticks".
- Pg. 2 Under amounts to use, specify "for Brown dog ticks which may transmit Lyme disease."
- Pg. 2 Revise "...Ants, Fleas, Mosquito adults, Ticks (including Ticks which transmit Lyme Disease) & many more" to read ".. Ants (excluding pharoah ants and carpenter ants), Fleas, Mosquito adults, Brown dog Ticks (including those which may transmit Lyme Disease) & others as listed on this label."
- Pg. 2 Revise "Start applying the farthest corner of the treatment area and work backward to avoid contact with wet surfaces." to read "Start applying the farthest corner of the treatment area and work backward."
- Pg. 2 Substitute "and many more" to read "and many more as listed on this label."
- Pg.3 and Pg 4 Delete directions for use on corn.
- Pg. 4 For the uses on broccoli, brussel sprouts, cabbage, cauliflower, kohlrabi, collards, kale, lettuce, mustard greens, spinach, turnip tops, carrot tops, radish tops and garden beet tops, add the restriction "Application is only permitted within thirty days from the date of crop emergence or the date of transplanting."
- Pg. 5 Specify "Ants (excluding pharoah ants and carpenter ants)".
- Pg. 6 and 7 Delete the heading and all text under HOME GARDENS AND HOME RECREATION AREAS, MIXING INSTRUCTIONS AND ALTERNATE MIXING INSTRUCTIONS, INSECTS/PESTS KILLED, WHEN TO MOW AND WATER, WHEN TO APPLY, and TICKS WHICH TRANSMIT LYME DISEASE. (Note: In order to retain this use, there must be a separate label with directions for use for a pintsize ready-to-use hose end sprayer.)
- Pg. 8 Under the heading TO KILL ADULT MOSQUITOES IN YARDS AND HOME RECREATION AREAS, add the following sentences: "Will only kill adult mosquitoes present at the time of application. Mosquitoes must be directly contacted to be effective. Contact as many pests as possible. Non-residual treatment."
- Pg. 8 revise the heading PEST CONTROL AROUND THE OUTSIDE OF BUILDINGS (HOMES, BARNS) to read: TO KILL PESTS AROUND THE OUTSIDE OF DWELLINGS.
- Pg. 8 Under the heading TO KILL PESTS AROUND THE OUTSIDE OF DWELLINGS add the following sentences: "Will only kill adult

mosquitoes present at the time of application. Mosquitoes must be directly contacted to be effective. Non-residual treatment."

- Pg. 9 Revise the first sentence in Environmental Hazards to read "This • pesticide is extremely toxic to aquatic invertebrates."
- Pg. 9 Delete reference to the website. •
- Pg 9 Under Disclaimer, revise "In no case..." to read "To the extent • consistent with applicable law, in no case...".

A stamped copy is enclosed for your records. Please submit on copy of the final printed label before releasing the product for shipment.

Approval of this label does not constitute approval of your application for reregistration of this product. Product reregistration is currently pending, and future labeling changes and/or additional data may be required.

If you have questions, email me at edwards.joanne@epa.gov or by telephone at (703) 305-6736.

Sincerely,

Joanne & Coliver

Joanne S. Edwards, Entomologist Insecticide-Rodenticide Branch Registration Division (7505C)

ORTHO® SEVIN® Liquid Brand Carbaryl Insecticide Formula II, EPA Reg. No 239-2628

{*lcon*}OUTDOOR USE ONLY {*lcon*}WATER BASED

Concentrate Makes up to 48 gallons of spray {Quart Size} Makes up to 24 gallons of spray {Pint Size}

Kills and Controls: Beetles (including Japanese Beetle), Caterpillars (including Tent Caterpillar, Gypsy Moth & Tomato Hornworm), Plant Bugs, Apple Maggots, Ants (except pharaoh and carpenter ants), and many more/other leaf-eating insects.

Kills: Chiggers, Centipedes, Scorpions, Spiders, Fleas, Mosquito adults, and Ticks (which may transmit Lyme disease)

On: Ornamentals, Roses, Flowers, Shrubs, **Trees**, Shade Trees, **Fruits**, Vegetables and Lawns.

Also Kills Ticks which transmit Lyme Disease.

Active Ingredient	
Carbaryl	21.3%
Other Ingredients	

KEEP OUT OF REACH OF CHILDREN CAUTION See back panel booklet for additional precautionary statements

. NET 16 FL OZ ( 1 PT ) / 473 mL 32 FL OZ ( 1 QT ) / 946 mL

OPEN RESEALABLE LABEL FOR DIRECTIONS & PRECAUTIONS.

Specially formulated for residential use.

PRESS TO RESEAL

Easy to apply with the ORTHO® Dial 'n Spray®, other hose-end sprayer, or tank sprayer.

FOR USE WITH HOSE-END SPRAYERS INCLUDING THE ORTHO DIAL 'n SPRAY®, TANK-TYPE AND READY-SPRAY SPRAYERS.

ACCEPTED with COMMENTS In EPA Letter Dated:  $4 |_{23} |_{08}$ 

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as ancuded, for the pesticide registered under EPA Reg. No. 229-76-28

> PEEL HERE

Product Facts			
KILLS INSECTS	Beetles (including Japanese Beetle), Caterpillars (including Tent Caterpillar, Gypsy Moth & Tomato Hornworm), White Grubs, Ants, Fleas, Mosquito adults, Ticks (including Ticks which transmit Lyme Disease) & many more		
WHERE	Roses, Flowers, Trees, Shrubs, Fruits, Vegetables		
TO USE	Home Lawns & Home Recreation Areas		
AMOUNT	4 tsp per gal of water (for Roses, Flowers, Trees, Shrubs, Fruits & Vegetables)		
TO USE	1 Tbs (3 tsp) per gal of water (for Home Lawns & Home Recreation Areas)		
	1 fl oz (2 Tbs ) per gal of water (for Ticks which transmit Lyme Disease)		
Questions, Comments or Medical Information			
Ca	call 1-800-225-2883 http://www.ortho.com		

## READ ENTIRE LABEL BEFORE EACH USE

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 any person or pet, either directly or through drift. Keep people and pets out of the area during application.

#### SHAKE WELL BEFORE USE

Apply when air is calm to avoid drift and contact with eyes and skin. Start spraying at the farthest corner of the treatment area and work backward to avoid contact with wet surfaces. Allow spray to dry in treated areas before reentry.

# ROSES, FLOWERS, TREES, SHRUBS, SHADE TREES PLUS LISTED FRUITS AND VEGETABLES

For trees taller than 10 feet, consider hiring a licensed professional. Spray thoroughly to wet upper and lower leaf surfaces, stems and branches.

DO NOT spray Boston Ivy, Virginia Creeper, Maidenhair Fern, Virginia Pine or Sand Pine as damage may occur.

#### INSECTS

**Insects on Roses, Flowers, Trees & Shrubs:** Including Aphids (Elm Leaf & Rose), Bagworms, Blister Beetle, Cankerworms, Douglas Fir Tussock Moth, Elm Leaf Beetle, Flea Beetles, Grasshoppers, Gypsy Moth, Japanese Beetle, Lacebugs, Leafminers (Azalea, Birch, Boxwood, Holly & Oak), Leafrollers, Periodical Cicada (17 yr Locust), Pitch Pine Tip Moth, Plant Bugs, Psyllids, Rose Chafer, Roseslug, Sawflies (exposed), Scales, Tent Caterpillar, Thrips (exposed), Webworms & many more

**Insects on Vegetables & Melons:** Including Armyworms, Bean Leaf Beetle, Colorado Potato Beetle, Corn Earworm, Cucumber Beetles, Cutworms, European Corn Borer, Flea Beetles, Grasshoppers, Imported Cabbageworm, Japanese Beetle, Lacebugs, Leafhoppers, Melonworm, Mexican Bean Beetle, Squash Bugs, Stinkbugs, Tarnished Plant Bug, Thrips, Tomato Hornworm & many more

## **MIXING INSTRUCTIONS**

- •. Amount to Use: 4 tsp per gallon of water.
- •. Sprayers:
- •. Tank Sprayer: Add 4 tsp to 1 gallon of water.
- •. Ortho Dial'n Spray® Hose End Sprayer: For every gallon of spray needed, add 4 tsp of product to the sprayer jar. DO NOT add water. Regardless of the amount in the jar, set the dial to 4 tsp. Unused product may be returned to product container.

1 tsp = Teaspoon

1 Tbs = Tablespoon =  $\frac{1}{2}$  fl oz

## ALTERNATE TEXT FOR MIXING INSTRUCTIONS

## **MIXING INSTRUCTIONS**

For Roses, Flowers, Trees, Shrubs, Fruits, Vegetables & Nuts

## Amount to Use: 4 tsp per gal of water

[DNS illustration] When using Ortho® Dial 'n Spray®: Set dial to 4 tsp. For 3 gal of spray add 2 fl oz (4 Tbs) to sprayer jar. DO NOT ADD WATER. After spraying, unused product must be poured back into its original container.

1 Tablespoon (Tbs) = 3 teaspoons (tsp) 1 fl oz = 2 Tbs 8 fl oz = 1 cup

## WHEN TO APPLY

Apply as noted.

**Specific Directions** 

- Scales: Apply when crawlers are present for best results.
- Corn: For insects attacking silks and ears, apply when first silks appear and continuing until silks begin to dry.

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PLANTS	DAYS TO WAIT TO RE-TREAT	DAYS TO WAIT TO HARVEST
BEANS (FRESH AND DRIED), PEAS, COWPEAS	7	<b>3</b> (succulent) <b>21</b> (dried) <b>14</b> (forage)
CABBAGE, BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER KOHLRABI, CHINESE CABAGE, KALE, COLLARDS	3	Brussels sprouts, Broccoli, Cabbage, Kohlrabi, Cauliflower: <b>3</b> Chinese cabbage, Kale, Collards: <b>14</b>
CORN (field and pop)	14	<b>14</b> (forage, silage) <b>48</b> (grain, fodder)
CORN (sweet)	3	3 (ears) 14 (forage) 48 (fodder)
CUCUMBERS MELONS, SQUASH Do not use this product on watermelons in Florida.	7	3
CARROTS, BEETS (roots), RADISHES, PARSNIPS, TURNIPS (roots) HORSERADISH RUTABAGA, SALISFY	7	7
LETTUCE (head and leaf), ENDIVE, HANOVER SALAD, SWISS CHARD, PARSLEY, SPINACH, BEETS (tops), TURNIPS (tops)	7	14-15
MUSTARD GRÉENS	7	13-14
POTATOES, EGGPLANT, PEPPERS	7	Potatoes: <b>7</b> Eggplant, Peppers: <b>3</b>
STRAWBERRIES	7	7

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TOMATOES	7	3

## PESTS/INSECTS CONTROLLED

## **ROSES, FLOWERS, TREES & SHRUBS**

Ants Apple Aphid Armyworm Azalea Leafminer Bagworms Birch Leafminer **Blister Beetle Boxelder Bug Boxwood Leafminer** Browntail Moth Cankerworms Catalpa Sphinx Moth Chiggers\* Cooley Spruce Gall Adelgid Cutworms Cypress Tip Moth **Douglas-Fir Tussock Moth** Eastern Spruce Gall Adelgid Elm Leaf Aphid Elm Leaf Beetle Elm Spanworm **Eriophyd Mites European Pine Shoot Moth** Fall Armyworm Flea Beetles **Fuller Rose Beetle** Gall Midges Gall Wasps

Grasshoppers Green Striped Maple worm Gypsy Moth Hackberry Nipplegall Maker Holly Budmoth Holly Leafminer Jack Pine Budworm Japanese Beetle Jeffrey Pine Needleminer Lace Bugs Leafhoppers Leafrollers Locust Borer Maple Leafcutter Mealybug Mimosa Webworm Nantucket Pine Tip Moth **Oak Leafminers** Oak Leaf Skeletonizer Oakworm Complex Oleander Caterpillar **Olive Ash Borer** Orangestriped Oakworm Orange Tortrix Periodical Cicada (17 yr. Locust) Pine Sawfly

Pine Spittlebug Pitch Pine Tip Moth Plant Bugs Poinsettia Hornworm **Psyllids** Puss Caterpillar Redhumped Oakworm Rose Aphid Rose Chafer Roseslua Saddled Prominent Caterpillar Sawflies (exposed) Scale Insects Sowbugs Spiny Elm Caterpillar Springtails Spruce Budworms Spruce Needleminer Subtropical Pine Tip Moth **Tent Caterpillar** Thrips (exposed) Ticks\* **Tree Hoppers** Walnut Caterpillar Webworm Western Hemlock Looper Western Spruce Budworm Willow Leaf Beetle Yellow Poplar Weevil

## MELONS & LISTED VEGETABLES

Alfalfa Caterpillar Armyworm Aster Leafhopper Bean Leaf Beetle Blister Beetles Chinch Bug Flea Beetles Grasshoppers Green Cloverworm Harlequin Bug Imported Cabbageworm Japanese Beetle Sap Beetles Southwestern Corn Borer Spittlebugs Squash Bugs Stinkbugs Tarnished Plant Bug Colorado Potato Beetle Corn Earworm Corn Rootworm (adults) Cucumber Beetles Cutworms European Corn Borer Fall Armyworm

Lace Bugs Leafhoppers Lygus Bugs Melonworm Mexican Bean Beetle Pickleworm Red-Necked Peanut worm Velvet Bean Caterpillar

Three Cornered Alfalfa Hopper Thrips Tomato Fruitworm **Tomato Hornworm Tomato Pinworm Tortoise Beetles** 

#### **STRAWBERRIES**

Meadow Spittlebugs Strawberry Leaftroller **Strawberry Weevils** 

#### **COMBINATION SPRAY WITH FUNGICIDE ON ROSES:**

ORTHO RosePride FUNGINEX® Rose & Shrub Disease Control or ORTHO® Multi-Purpose Fundicide DACONIL 2787® Plant Disease Control may be mixed with this product when listed insect(s) and disease(s) are present. Follow directions and precautions on both labels.

#### HOME LAWNS AND HOME RECREATION AREAS

Broadcast application to lawns is prohibited. Application is limited to spot treatments of 1000 square feet or less.

#### **MIXING INSTRUCTIONS**

Amount to Use: 1 Tbs (3 tsp) per gallon of water. Sprayers:

Tank Sprayer: Add 1 Tbs (3 tsp) to 1 gallon of water

Ortho Dial'n Spray® Hose End Sprayer: For every gallon of spray needed, add 1 Tbs (3 tsp) of product to the sprayer jar. DO NOT add water. Regardless of the amount in the jar, set the dial to 1 Tbs. Unused product may be returned to product container.

## ALTERNATE MIXING INSTRUCTIONS

MIXING INSTRUCTIONS For Home Lawns & Home Recreation Areas Amount to Use: 17bs per gal of water [DNS illustration] When using Ortho® Dial 'n Spray®: Set dial to 1 tbs. For 16 gal of spray add 16 Tbs (8 fl oz) to sprayer jar. DO NOT ADD WATER. Spray evenly over "AREA TO TREAT" (675 or 750 sq ft) as indicated for the insects above."

1/Tablespoon (Tbs) = 3 teaspoons (tsp) 1 fl oz = 2 Tbs 8 fl oz = 1 cup

INSECTS/PESTS KILLED	AREA TO TREAT
Ants, Armyworms, Centipedes*, Chiggers*,	8 Tbs Sevin® Liquid in 8 gal of
Cutworms, Earwigs, Essex Skippers, Fall	water treats 750 sq ft.
Armyworm, Fiery Skipper, Grasshoppers,	
Leafhoppers, Lucerne Moth,	
Millipedes, Mosquitoes Adults*, Sowbugs,	
Spittlebugs, Springtails & Ticks*	
Bluegrass Billbug, Chinch Bugs, Sod	16 Tbs Sevin® Liquid in 16 gal of
Webworms, European Crane Fly Larvae	water treats 675 sq ft.
(Leather Jacket), Fleas* & White Grubs (such	
as larvae of Japanese Beetle, European	
Chafer, May/June Beetles))	
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## WHEN TO MOW & WATER

1. VII. Mow and water lawn before application. **Armyworms and Sod Webworm** II. For European Crane Fly **larvae** and White Grubs, water lawn thoroughly after application.

III. For all other insects, do not water lawn for 2 to 3 days after application.

#### WHEN TO APPLY

**Apply** as necessary to maintain control, but not more often than once weekly. Specific Directions:

**European Crane Fly larvae** (Except in CA): Apply in early spring April 1 to April 15, or as recommended by your County Cooperative Extension Agent.

White Grubs: Apply when grubs are feeding near the soil surface usually during late March through May, or July to early September, or as recommended by your County Cooperative Extension Agent.

#### FIRE ANT MOUNDS

#### **MIXING INSTRUCTIONS**

Amount to Use: 1 fl oz (2 Tbs) per galion of water. Sprinkling Can: Add 2 fl oz to 2 gallons of water and apply over and 4 feet around mound.

## WHEN TO APPLY

Apply in cool weather, 65 to 80°F, or in early morning or late evening. Repeat application if activity resumes after 10 days. Treat new mounds as they appear.

TICKS\* WHICH TRANSMIT LYME DISEASE: Deer, Bear, Black Legged and Lone Star Ticks\*

**Use 1 fl oz (2Tbs) per gal of water.** Begin applications in late spring or early summer (May/June). Thoroughly treat entire turf area, shrub-beds, ornamental plantings, wooded areas, and around outside perimeters of homes/buildings where exposure to ticks\* may occur. (DO NOT apply to vinvl siding as staining may occur.) Apply every 3 to 4 weeks until late fall, since ticks\* may be reintroduced from surrounding areas by animals.

## ADDITIONAL USES

TO KILL ADULT MOSQUITOES\* IN YARDS AND HOME RECREATION AREAS For application to shade trees, ornamentals, woody plants and shrubs, apply 1 to 2 Tbs per gal of water. Treat shrubbery and areas where adult mosquitoes congregate. Treat when mosquitoes are active in early morning or later evening. Repeat at 7 to 10 day intervals. (Note: Carbaryl may kill shrimp and crabs; Observe Bee caution.)

PEST CONTROL AROUND OUTSIDE OF BUILDINGS (HOMES, BARNS)

(DO NOT apply to vinyl siding as staining may occur.)

To Kill: Brown Dog Ticks\*, Fleas\*, Earwigs, Millipedes, Silverfish. Apply at the rate of 7 oz/gal of water as a coarse wet spray to outside perimeter of dwellings and other areas where insects tend to congregate. Do not apply this rate to foliage of plants.

\* ORTHO® SEVIN® Liquid Brand Carbaryl Insecticide Formula II will kill pests present only at the time of application. Contact as many pests as possible.

## STORAGE AND DISPOSAL

**STORAGE**: Store in original container in a safe place. Do not store in areas where temperatures frequently exceed 100°F.

**DISPOSAL: If empty:** Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

## PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

**CAUTION**: Harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash hand hands before eating, drinking, chewing gum, using tobacco or using the restroom.

(Reentry icon) Do not allow people or pets to enter the treated area until sprays have dried.

**FIRST AID: If swallowed:** 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 in eyes:** 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.

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**If on skin or clothing:** 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 inhaled:** 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.

**Note to Physician:** Emergency Information call **1-800-225-2283** Carbaryl is a moderate, reversible cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM, opiates, or cholinesterase inhibiting drugs.

**ENVIRONMENTAL HAZARDS:** Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS. This product is highly toxic to bees exposed to direct treatment or residues on blooming plants. Do not apply this product or allow it to drift to blooming plants if bees are visiting the treatment area. Contact your County Cooperative Extension Agent for further information.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

Questions, Comments or Medical Information? Call 1-800-225-2883 http://www.ortho.com

Manufactured for **The ORTHO Group** P.O. Box 190 Marysville, OH 43040 EPA Reg No 239-2628 EPA Est. 239-IA-3<sup>I</sup>, 58996-MO-1<sup>A</sup> Superscript is first letter of lot number. Made in USA Addendum A

HOW TO USE

**READY-SPRAY DIRECTIONS** 

A. ORTHO SPRAYER

o Connect sprayer to hose. Be sure on/off switch is set to "OFF". Turn on water.

o Use coin or key to rotate small green button to "OPEN".

o To begin spraying, point nozzle in the direction you want to spray. **Turn on/off switch** forward to "ON".

o To stop spraying, turn on/off switch back to "OFF". Rotate small green button to "CLOSED". Turn off water.

o To relieve water pressure, turn switch to "ON" until water slows to a drip. Turn switch back to "OFF". disconnect from garden hose and store in a safe place.

#### [OR]

#### **B. HAYES BUTTON SPRAYER**

o Connect sprayer to hose. Be sure on/off switch is set to "OFF". Turn on water.

- o **Push BUTTON** to open position. (You may need to align flat edge of button to ridge).
- o To begin spraying, point nozzle in the direction you want to spray.. **Turn on/off switch** forward 1/4 turn (counterclockwise) until it stops.
- o To stop spraying, turn on/off switch back to "OFF". Push button to closed position. Turn off water.
- o To relieve water pressure, turn switch on until water slows to a drip. Turn switch back to "OFF". Disconnect from garden hose and store in a safe place.