

SOUTHERN AG[®] Since 1947

LAWN & GARDEN PRODUCT GUIDE




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INSECTICIDES	PAGE	ABOUT THE PRODUCT GUIDE	PAGE
BORIC ACID ROACH POWDER	4	The number following each package size is our product I.D. number. This guide is based on the most current product labeling available at time of printing. This guide does not replace reading the product label before use. Southern Agricultural Insecticides, Inc is not responsible for recommendations not made by our employees including Garden Center and State agency employees. State agencies may provide additional information on specific control information, rates, timing, applications and days to harvest limitations. Permit may be required for commercial application. When rates are given as "TBS." refers to level tablespoonfuls and "tsp.", refers to level teaspoonfuls. Direct any questions to: Southern Agricultural Insecticides, Inc. P.O. Box 218, Palmetto, FL 34220 or info@southernag.com	
LAWNSTAR BIFENTHRIN INSECTICIDE	4		
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TRADEMARK RECOGNITIONS
 CORTEVA: CONSERVE®, DITHANE® M-45, GARLON®, REMEDY®, HUFFY BIKE
 COMPANY: CYCLONER®
 CERTIS: THURICIDE® PBI GORDON CORPORATION: TRIMEC®
 VALENT BIOSCIENCES: DIPEL®
 CLEARY CHEMICAL CORP.: 3336 WPR® SYNGENTA: BRAVOR®, DACONIL®

Products with  logo are either Reduced Risk, Organic, or Eco Friendly

BAITS

MOLE CRICKET BAIT

- Same formulation used by golf courses and sports fields
- Low use rate

CONTAINS: 5% Carbaryl insecticide on an attractant feed base.
USE ON: Vegetables, flowers, fruits, lawns, and ornamentals.
CONTROLS: Cutworms, armyworms, crickets, darkling ground beetles, mole crickets grasshoppers and sowbugs.
RATE: 0.45 lb. to 0.9 lb. per 1,000 sq. ft.
APPLICATION: Apply evenly over area with fertilizer spreader.
PACKED: 8 x 3.6 lb. bag - #08353, 9 lb. bag - #08359
 Also available in a 40 lb. bag - #49519.



SNAIL & SLUG BAIT

- This bait does not require watering in
- Low use rate
- Creates "guard line" at the edge of plantings

CONTAINS: 3.25% Metaldehyde pelletized bait.
USE AROUND: Fruit trees, berries, vegetables, ornamentals, lawns and greenhouses.
CONTROLS: Snails and slugs.
RATE: 1 lb. treats 1,100 - 1,500 square feet (30 - 40 lbs per acre)
APPLICATION: Spread evenly over area to be protected.
PACKED: 12 x 1 lb. canister - #10901, 12 x 2.5 lb. bag - #10910, 20 lb. bag - #10919
 Also available in a 40 lb. bag - #64459



FUNGICIDES

CAPTAN FUNGICIDE

- Controls Botrytis Rot (grey mold) on Strawberries
- Labeled for many fruits, ornamentals and lawns

CONTAINS: 50% Wettable Powder Captan.
USE ON: Fruit Crops: Almonds, apples, apricots, blueberries, cherries, grapes, nectarines, peaches, plums, and strawberries. Ornamentals: Azaleas, begonias, camellias, carnations, gladiolus, chrysanthemums and roses. Also grasses.
CONTROLS: Scab, Black Spot, Botrytis, Anthracnose, Brown Rot, Damping-Off, Root Rot, Leaf Spot, Brown Patch & Downy Mildew.
RATE: Foliar spray 2 teaspoons - 4 tablespoons per gal. of water. Grasses -1 tablespoon in 1 gallon of water per 1,000 sq. ft.
APPLICATION: Foliar Spray; Mix with water and apply as a thorough cover spray.
PACKED: 12 x 8 oz. - #01600



DITHANE M-45

- Labeled for many exotic ornamentals such as African Violets, Ferns, & Dendrobium Orchids
- Preferred by many rose growers for Black Spot
- Commonly used in the commercial production of tomatoes, squash & melons

CONTAINS: 80% Mancozeb
USE ON: Many ornamentals, vegetables (potatoes, corn, squash, cucumber, melon, and papaya)
CONTROLS: leafspots, rust, botrytis, anthracnose, early and late blights, and downy mildew.
APPLICATION: Mix with water. Apply as a thorough cover spray.
PACKED: 12 x 1 lb. plastic bottle - #03900, 8 x 2 lb. tub - #03912



GARDEN FRIENDLY FUNGICIDE

- For all organic and non-organic applications
- Controls or suppresses fungal and bacterial plant diseases
- Broad spectrum biofungicide controls foliar and soil-borne diseases
- Can be used as a drench for diseases
- Leaves behind little or no residue

CONTAINS: 98.85% Bacillus amyloliquefaciens strain D747
USE ON: All Ornamentals, Turf Vegetables, Fruits, Nuts, and Herbs.
CONTROLS: Alternaria leaf spot, alternaria, anthracnose, bacterial canker, bacterial leaf spot, bacterial spot, bitter rot, black eye, black root rot, black rot, black spot on roses, bot rot/white rot, botrytis blight bottom rot, brown canker, brown patch, cedar apple rust, citrus canker, damping off, dollar spot, downy mildew, early and late blights, fire blight, flyspeck, fruit rots, fusarium wilt, gray and white mold, gray leaf spot, greasy spot, leaf and fruit spots, leaf blight, leaf spots, melanose, peach leaf curl, pecan scab, post bloom fruit drop, powdery mildew, pythium, root rot, rusts, rusty spot, scab, sclerotinia blight, shot hole, sooty blotch, stem rot, walnut blight.
RATE: Vegetables, fruit, nuts, herbs and ornamentals; 1 teaspoon per gallon of water. For lawns; 1 teaspoon per gallon. Use 2 to 5 gallons of spray per 1,000 sq. ft.
APPLICATION: Foliar Spray; Mix with water and apply as a thorough cover spray.
PACKED: 12 x 8 oz. - #05171, 12 x Pt. - #05172



INSECTICIDES

PERMETROL LAWN INSECTICIDE GRANULES

- Provides contact & residual control for up to 4 weeks
- Economical, ready to use permethrin insect control
- Controls home invading pests

CONTAINS: 0.5% Permethrin on a granular base.

USE ON: Lawns and around house foundations

CONTROLS: Ants, armyworms, billbugs, centipedes, chinch bugs, cockroaches, crickets, cutworms, fire ants, flea beetles, fleas, grasshoppers, lawn moths, leafhoppers, scorpions, silverfish, Spiders, Sod Webworms, and Ticks

RATE: Lawns; 2 - 3 lbs. per 1,000 sq. ft. Fire Ant Mounds; 1 cup per mound

APPLICATION: Spread evenly with spreader and water in.

PACKED: 12 x 1 lb. canister - #09431, 8 x 4 lb. bag - #09434, 10 lb. bag - #09436, 20 lb. bag - #09439



PERMETROL LAWN INSECTICIDE

- Controls many insect pests outdoors around buildings
- Use in ornamentals, fruit trees, vegetables & lawns
- Labeled for use on dogs & livestock

CONTAINS: 10% Permethrin

USE ON: Lawns, ornamentals, houseplants, ornamental trees, many vegetables, certain fruit trees (apples, peaches, pears, non-bearing citrus), outdoors surfaces, dogs and livestock.

CONTROLS: Ants, aphids, beetles, chinch bugs, crickets, earwigs, fleas, fungus gnats, grubs, leafrollers, mole crickets, scale, spider mites, thrips, whiteflies and worms.

RATE: Fruit Trees; 3 teaspoons per gallon
Lawns; 3 - 7 teaspoons (.5 - 1.2 ozs) per 1,000 sq. ft. Ornamentals; 1-1/3 teaspoons per gallon or 1/3 teaspoons per quart.
Outdoor surfaces (walls, screens); 6.5 oz. per gallon.

Vegetables; 1 - 2 teaspoons per gallon
APPLICATION: Apply to full coverage.

PACKED: 12 x 8 oz. - #09451, 12 x Pt. - #09462, 12 x Qt. - #09453, 4 x Gal. - #09454



PARAFINE HORTICULTURAL OIL

- New formulation
- Use as a horticultural oil or a dormant oil
- Controls scale, white fly, mealy bugs & spider mites
- Use on ornamentals, apples, citrus & avocados

CONTAINS: 98% Mineral Oil, 2% Emulsifier

USE ON: Many woody ornamentals including palms, apples, citrus, avocados, mangos, roses and ivy, and on listed vegetables.

CONTROLS: Scales, white fly larvae, mealy bugs and spider mites.

RATE: Non-dormant uses; 1-3 tablespoons per gallon of water.
Dormant uses; 4-8 tablespoons per gallon of water.

Most other uses; 3 tablespoons per gallon of water. See label.

APPLICATION: Mix with water. Agitate while spraying.

Apply as a thorough cover spray.

PACKED: 12 x Pt. - #09202, 12 x Qt. - #09203, 4 x Gal. - #09204



PYRETHRIN CONCENTRATE

- Insecticide made from a relative of chrysanthemum
- Controls insects on vegetables, on ornamentals, indoors & on livestock

CONTAINS: 0.96% Pyrethrins and 9.6% Piperonyl Butoxide

USE ON: Many vegetables, ornamentals, livestock, pets, and in households & barns, as space spray, and to control mosquitoes outdoors

CONTROLS: On vegetables and ornamentals; aphids, whiteflies, beetles, and worms. Pets and livestock; fleas, mites, lice, flies, gnats, and mosquitoes. Households and other areas; ants, roaches, silverfish, spiders, and many others. Space Spray: mosquitoes, flies, wasps, and others.

RATE: Vegetables and ornamentals; 2/3 - 2 teaspoons per gal. See label for surface spray, space spray, mosquito control and livestock rates.

APPLICATION: As a thorough spray or dip.
PACKED: 12 x 8oz. - #10401



INSECTICIDES

THURICIDE® BT CATERPILLER CONTROL

- Low toxicity to humans and animals
- Used by Organic growers
- Made from a bacteria that is toxic to certain pests

• Same active ingredient as Dipel®
CONTAINS: Bacillus Thuringiensis in liquid form

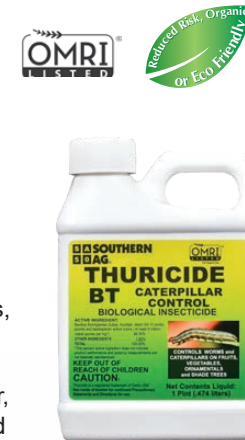
USE ON: Vegetables, citrus, nuts, shrubs, trees, tobacco, and flowering plants.

CONTROLS: Controls lepidoptera larvae: caterpillars and worms. i.e. cabbage looper, orange dog, tobacco hornworm, imported cabbageworm and rindworm.

RATE: 2 - 4 teaspoons per gallon.

APPLICATION: Mix with water, add spreader-sticker, use as a thorough cover spray.

PACKED: 12 x 8 oz. - #13021, 12 x Pt. - #13022



TRIPLE ACTION NEEM OIL

Broad Spectrum Fungicide/ Insecticide/ Miticide

- For use on ALL fruits, nuts, vegetables, herbs, & ornamentals
- Prevents & controls black spot on roses & powdery mildew
- Controls aphids, spider mites, scale, whiteflies, & beetles
- Kills eggs, larvae, & adult insects

CONTAINS: 70% Clarified Hydrophobic Extract of Neem Oil

USE ON: Indoor/Outdoor ornamental flowering plants, trees, shrubs, foliage, vegetables, fruits, nuts and landscapes
CONTROLS: As Fungicide -- powdery mildew, black spot, downy mildew, anthracnose, rust, leaf spot, botrytis, needle rust, scab and flower, twig, tip blight, and alternaria.

As Insecticide/Miticide - aphids, spider mites, scale, whiteflies, beetles, leafrollers, and other insect pests.

RATE: 2 tablespoons (1 oz.) per gallon of water.

APPLICATION: Thoroughly mix solution and spray all plant surfaces (including undersides of leaves) until wet. Mix solution frequently as you spray.

PACKED: 12 x 8 oz. - #08721, 12 x Pt. - #08722



FERTILIZERS

ALUMINUM SULFATE

- Great for Hydrangeas
- Acidifies soil (lowers pH), corrects high alkalinity

CONTAINS: Fertilizer grade Aluminum Sulfate, as Metallic 9.0%.

Not for spray application.

USE ON: Acid loving shrubs like rhododendrons, hydrangeas, blueberries, dogwoods, holly, gardenias, camellias, and azaleas.

CORRECTS: Excess alkalinity in the soil.

RATE: For large shrubs use 1 lb. per 3 ft. of height. For Trees, use 1 lb. per inch of trunk diameter.

For small shrubs, use 5 lbs. per 100 sq. ft.

APPLICATION: Broadcast evenly, wash off foliage and water.

PACKED: 10 x 5 lb. bag - #00155



CALCIUM NITRATE

- Excellent source of Calcium and Nitrogen
- Prevents Calcium deficiency

CONTAINS: 15.5% Nitrogen, 19% Calcium - readily water soluble.

USE ON: Most vegetables and flowers.

FOR: Supplying nitrogen and calcium to growing crops. Particularly useful as side dressing.

RATE: One cup per 50 feet of row or one tsp. per plant

APPLICATION: Apply over root zone but not too close to stem.

PACKED: 10 x 5 lb. bag - #01405



CITRUS NUTRITIONAL SPRAY

- Corrects & prevents deficiencies that cause yellowing
- Contains 5 balanced essential nutrients, including zinc
- For use of all ornamentals and fruits trees

CONTAINS: Magnesium 1.0%, Sulfur 4.1%, Iron 1.2%, Manganese 1.2%, & Zinc 1.7%.

USE ON: Citrus, avocados, mangoes, and other tropical fruits.

CONTROLS: Most common minor element deficiencies.

RATE: 1-2 tablespoons per gallon of spray.

APPLICATION: In Winter for normal preventative spray. Apply as a thorough cover spray to run off.

PACKED: 12 x Pt. - #01902, 4 x Gal. - #01904

Note: See University of Florida publication #HS876: "Citrus Problems in the Home Landscape"



FERTILIZERS

20-20-20 POWERPAK WATER SOLUBLE FERTILIZER

- Very popular, high quality & cost effective formulation

- Contains chelated minor elements
- CONTAINS:** 20% Nitrogen, 20% Phosphorus (P₂O₅), 20% Potassium (K₂O) plus Chelated Minor Elements.

USE ON: Flowers, roses, vegetables, shrubs, trees, lawns and houseplants

RATE: Spray at 2 teaspoons or drench at 2 tablespoons per gallon. Lawns; 1 pound per 1,000 square feet in 10 gallons of water.

PACKED: 12 x 1 lb. zipper pouch - #11301, 10 x 5 lb. poly bag - #11305

**30-10-10 MAX ACID WATER SOLUBLE FERTILIZER**

- Great for acid loving evergreens & tropicals

- Contains chelated minor elements
- Promotes deep rich green color

CONTAINS: 30% Nitrogen, 10% Phosphorus (P₂O₅), 10% Potassium (K₂O) plus Chelated Minor Elements.

USE ON: Acid-loving evergreen shrubs, trees, tropical plants

RATE: Spray at 2 teaspoons or drench at 2 tablespoons per gallon. Lawns - 1 pound per 1,000 square feet in 10 gallons of water.

PACKED: 12 x 1 lb. zipper pouch with spoon - #08101

**10-30-20 START, ROOT AND BLOOM WATER SOLUBLE FERTILIZER**

- High in Phosphorous for more roots & flowers
- Great for transplanting & bedding plants

CONTAINS: 10% Nitrogen, 30% Phosphorus (P₂O₅), 20% Potassium (K₂O) plus Chelated Minor Elements.

USE ON: Flowers, roses, houseplants, vegetables, shrubs and trees

RATE: For a transplanting solution, mix 2 tablespoons per gallon of water. Use .5 - 1 pint of solution per plant.

For a foliar feeding, use 1 tablespoonful per gallon of water.

Repeat every 1 - 2 weeks or as needed.

PACKED: 12 x 1 lb. zipper bag with spoon - #12111

**SULFATE OF POTASH 0-0-50**

- Corrects Potassium deficiency in avocado, beans, corn, cherries, citrus, grapes, palms & roses
- Strengthens plants, making them less susceptible to disease & adverse conditions such as winter

CONTAINS: Granular Grade Potassium Sulfate. Not for spraying.

USE ON: Vegetables, flowers, shrubs and lawns.

FOR Use in potassium low soils. Helps plants form healthier, stronger roots, stems, and tubers.

RATE: .5 lb. per 100 sq. ft.

APPLICATION: Spread over treatment area and water in.

PACKED: 10 x 5 lb. bag - #12255

**TRIPLE SUPER PHOSPHATE 0-40-0 BULB BOOSTER**

- Enhances stem strength and flower formation and set

CONTAINS: Granular grade Phosphate 40%. Not for spraying.

USE ON: Vegetables, fruit trees, bulbs, flowers and shrubs

PROVIDES: Phosphorous for increased rooting and blooming.

RATE: At planting; Use 5 lbs. per 200 sq. ft. Vegetables; 1 lb. per 50 foot of row.

Roses or large shrubs; 1/4 cup per plant.

Fruit Trees; 1 cup per inch of trunk diameter.

Top dress; .25 - .5 cup per 20 square feet

APPLICATION: Spread over area and water in thoroughly or incorporate into planting bed.

PACKED: 10 x 5 lb. bag - #12355

**STOP BLOSSOM-END ROT of TOMATOES**

- Prevents tomatoes blossom-end rot due to Calcium deficiency

- Corrects Calcium deficiency

CONTAINS: 31% or 3 lbs. Calcium Chloride per gallon.

CONTROLS: Blossom-end rot/calcium deficiency. **NOTE:** On future crops, proper liming of soil or use of Calcium Nitrate will reduce problem.

RATE: 2 tablespoons (1 oz.) per gallon.

APPLICATION: In water as thorough cover spray. Compatible with most insecticides and fungicides.

PACKED: 12 x Pt. - #00902, 12 x Qt. - #00903



FERTILIZERS

ZINC SULFATE

- Corrects blind nut disorder in Pecans
- Corrects zinc deficiency (mottleleaf) in avocado, beans, citrus, corn, peaches & nectarines

CONTAINS: Zinc as metallic 31%.

USE ON: Trees, shrubs, berry bushes, and fruit trees.

CONTROLS: Zinc deficiency, rosette on pecans.

RATE: Apply dry at 1.5 lbs. per inch of trunk diameter.

APPLICATION: Broadcast evenly over area to be treated and water

PACKED: 10 x 5 lb. bag - #14955

**10-10-10 ALL PURPOSE FERTILIZER**

- Uniform, homogenous granular formulation

CONTAINS: 10% Nitrogen, 10% Phosphorus (P₂O₅),

10% Potassium (K₂O) plus minor elements

SUGGESTED USES: Vegetable gardens & flowerbeds; 1 cup per 25 sq. ft; Roses & large shrubs; 2 - 2.5 cup per 4 ft.

of height, Fruit trees; 2-4 cups per tree.

APPLICATION: Broadcast evenly over area and water in.

PACKED: 10 x 5 lb. poly bag - #14975



MISCELLANEOUS

HERBI - OIL 83-17

- Combines a soluble herbicide oil for penetration & a surfactant for wetting

- Increase results with 2,4-D Amine, Atrazine, Broadloom, brush killers & grass killers

CONTAINS: Paraffin-based petroleum oils and a blend of oil soluble surfactants.

USE ON: Weeds with herbicide according to the label.

FOR: Increasing effectiveness of herbicides.

RATE: 1% Emulsion or 1.25 oz. per gallon, 1 pint in 12.5 gallons.

APPLICATION: Apply as a foliar spray with herbicides according to their label.

PACKED: 12 x Pt. - #05302, 4 X Gal. - # 39734

**SURFACTANT FOR HERBICIDES**

- Wetting Agent/Spreader/Penetrant

CONTAINS: Alcohols, C10-16 ethoxylated; polyethylene glycol nonylphenyl ether

USE: With most insecticides, fungicides, herbicides, defoliants, and wettable powders.

FOR: Improve performance of the active spray ingredient by giving them more uniform distribution and better wetting of the plant surface.

RATE: 1 to 2 pints per 100 gallons water. (1 - 2 teaspoons per gallon of water)

PACKED: 12 x Pt. - #12202, 4 x Gal. - #66754

**SPREADER STICKER**

- Combines two spray adjuvants in one product

- Use with most pesticides to improve results

- Increases residual activity of sprays by preventing wash-off

CONTAINS: Modified phthalic glycerol alkyd resin, Octyl phenoxy polyethoxy ethanol and Isopropanol

USE: Can be used with almost all insecticide, fungicide, herbicide and nutritional sprays on

Ornamentals and Vegetables. Aids in spreading of spray material on waxy leaved plants

such as Roses and Cabbage. Helps prevent spray material from weathering due to rain and dew. Increases effectiveness of insecticide and fungicide sprays.

RATE: Use 1 tablespoon per gal of spray.

PACKED: 12 x 8 oz. - #12101,

12 x Pt #12102, 4 x Gal. - #65724



TABLE OF WEIGHTS, MEASURES & DILUTIONS

WEIGHTS:

28.35 Grams = 1 Ounce
 16 Ounces = 1 Pound = 453.6 Grams
 1 Kilogram = 1000 Gram = 2.205 Pounds
 1 Gallon water = 8.34 Pounds = 3.8 Kilogram
 1 Cu. Ft. water = 62.4 Pounds = 28.3 Kilogram
 1 Ton = 2,000 Pounds = 907 Kilograms

VOLUME AND LIQUID MEASURE

3 Teaspoons = 1 Tbs. (Tablespoons) = 14.8 ml (Millilitres)
 2 Tablespoons = 1 Fl. oz. (Fluid ounces) = 29.6 ml
 8 Fluid ounces = 16 Tablespoons = 1 Cup = 236.6 ml
 2 Cups = 32 Tbs. = 16 Fl. oz. = 1 Pint = 473.1 ml
 2 Pints = 64 Tbs. = 32 Fl. oz. = 1 Quart = 946.2 ml
 1 Litre = 1000 ml = 0.2642 Gallons = 33.81 Ounces
 1 Gallon = 4 Quarts = 128 Fl. oz. = 256 Tbs. = 3785 ml

LENGTH AND LAND MEASURE

1 inch = 2.54 cm (centimeters)
 100 cm = 1 Meter = 3.281 Feet
 1 mile = 5,280 Feet = 1,609 Kilometers
 43,560 square feet = 1 Acre
 1 Acre = 0.4047 Hectare

USEFUL FORMULAS

Area of a Rect. or Square A= length x width
 Area of a Circle A= 3.14 x Radius squared
 Circumference of a Circle C= Diameter x 3.14
 Diameter of a Circle D= Distance from side to side
 Radius of a Circle R= 1/2 of Diameter
 Acre Feet of a Pond AF= Length (ft.) x Width (ft.) x Avg. Depth (ft.)
 (approx.) 43,560

MEDIA VOLUME EQUIVALENTS

Container Size	No. Per Cubic Yd.
2 1/4 inch	8,140
3 inch	3,300
4 inch	1,210
4 1/2 inch	950
1 Gallon	225
3 Gallon	120
5 Gallon	45
15 Gallon	14

EQUIVALENT QUANTITIES OF DRY MATERIALS (WETTABLE POWDERS) FOR VARIOUS QUANTITIES OF WATER:

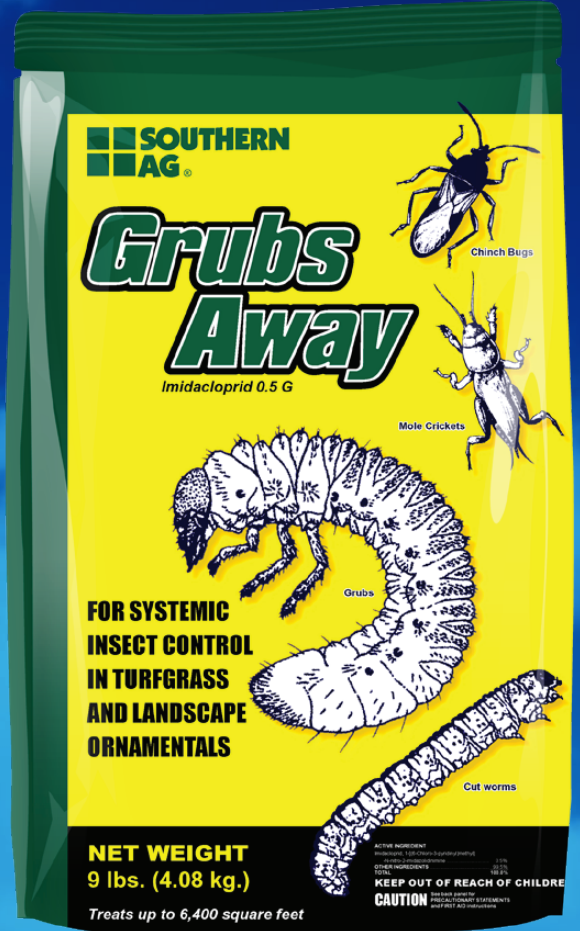
WATER	QUANTITY OF DRY MATERIAL						
100 gal. 1 lb.	2 lb.	3 lb.	4 lb.	5 lb.	6 lb.		
5 gal. 0.8 oz.	1.6 oz.	2.40 oz.	3.20 oz.	4 oz.	4.8 oz.		
1 gal. 1.5 tsp.	1 tbs.	1.5 tbs.	2 tbs.	2.5 tbs.	1 oz.(3 tbs)		

NOTE: Wettable pesticide materials vary considerably in density. Therefore the teaspoonful (tsp.) and tablespoonful (tsp.) measurements in this table are not exact dosage by weight but are within the bounds of safety and efficiency for mixing small amount of spray.

EQUIVALENT QUANTITIES OF LIQUID MATERIALS (EMULSION, CONCENTRATES, ETC.) FOR VARIOUS QUANTITIES OF WATER:

WATER	QUANTITY OF LIQUID MATERIAL						
100 gal. 1/2 pt.	1 pt.	2 pt.	3 pt.	4 pt.	5 pt.		
5 gal. 1 tbs.	1 fl.oz.	1.5 fl.oz.	2.5 fl.oz.	3 fl.oz.	4 fl.oz.		
1 gal. 1/2 tsp.	1 tsp.	2 tsp.	3 tsp.	4 tsp.	5 tsp.		

NOTE: These are approximate equivalents.



Distributed by:

