

49668-2

1/3/2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JAN 3 2000

Ms. Peggy M. Galloway  
Regulatory Agent  
International Sulphur, Inc.  
c/o Landis International, Inc.  
P.O. Box 5126  
Valdosta, GA 31603-5126

Dear Ms. Galloway:

Subject: Redball Superfine Wettable Sulfur  
EPA Reg. No. 49668-2  
Your Amendment Dated on August 27, 1999

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable with the following comments:

Under General Information, in the first sentence following "Caution," indicate the number of weeks intended. This should be at least 2 weeks and for citrus, 3 weeks. The word "Caution" should only be used as the signal word. Change to "Precaution," "Note," "Attention" or some other word. Note that this information is repeated under the heading "general" which follows the chemigation section. These statements should be combined in one location.

Under citrus, clarify "Do not apply within 30 days of application."

For strawberries and walnuts indicate when to begin applications and the schedule or frequency of repeat applications.

Under "Animals", indicate the pests intended to be controlled on domestic livestock.

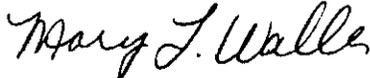
CONCURRENCES							
SYMBOL	15050						
SURNAME	Shulls						
DATE	12-27-99						

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In the future, please submit draft labels on 8½ "x 11" paper and used a larger font size so that photocopies and accepted labels posted on the Internet will be legible.

Please submit one copy of your final before you release the product for shipment. A stamped copy of the label is enclosed for your records. If you have any questions, please contact Charlotte Davis of my staff at (703) 305-6700.

Sincerely,



Mary L. Waller  
Product Manager (21)  
Fungicide Branch  
Registration Division (7505C)

Enclosure

3 8 5



**SUPERFINE WETTABLE SULFUR**

**For Spraying Fruits, Vegetables, & Ornamentals**

<b>ACTIVE INGREDIENT</b>	
Sulfur .....	80.0%
<b>INERT INGREDIENTS</b> .....	20.0%
<b>TOTAL</b> .....	100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

**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 for at least 15 minutes. Call a physician if irritation persists.

See Side Panel For Additional Precautionary Statements

**INTERNATIONAL SULPHUR, INC.**

P. O. BOX 611 • MT. PLEASANT, TEXAS 75456-0611

EPA REG. NO. 49668-2      NET CONTENTS 50 LBS., 22.7 KG      EPA EST. NO. 49668-TX-1

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticide and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

**GENERAL**  
Do not apply to or allow spray drift on sulfur-sensitive plants such as D'anjou pears, apricots, chrysanthemums, cranberries, spinach, or other sensitive crops listed on this labeling. Sulfur may burn foliage when temperature is excessively high. Do not apply if temperatures during or within three days after application are expected to exceed 90°F in the area to be treated. Do not apply with or following an oil application for 21 days. Do not apply oil for 21 days following treatment. When growing crops for processing, consult the processor before applying sulfur.

**DILUTE GROUND APPLICATION**  
A - Orchard application - Apply specified rate in 100-800 gallons of water per acre.  
B - All other applications - Apply specified rate in 20-60 gallons of water per acre.

**CONCENTRATE GROUND APPLICATION**  
A - Orchard application - Apply specified rate in 20-100 gallons of water per acre.  
B - All other applications - Apply specified rate in not less than 5 gallons of water per acre.

**AERIAL APPLICATION**  
A - Orchard application - Should not be applied in less than 10 gallons of water per acre.  
B - All other applications - Apply specified rate in 5-20 gallons of water per acre.

Recommendations: Pour needed amount into spray tank under agitation. If necessary, add a few drops of oil to avoid foaming.

**FRUIT AND NUT CROPS**

**ALMONDS** - Brown Rot, Powdery Mildew, Leaf Spot, Scab - Apply 8 to 30 lbs. per acre in pre-bloom, bloom, and post-bloom periods. Apply when disease threatens during rain periods and repeat at 7 to 10 day intervals. Mites - Brown, Almond, European Red, Two-Spotted, Pacific, Strawberry (Atlantic) Silver, Flat - 8 to 30 lbs. per acre as needed when infestation is noted.

**APPLES** - Scab, Powdery Mildew - 8 to 30 lbs. per acre - Apply prebloom, bloom, petal fall, shuck and as a cover spray throughout the season. Mites - Blister European Red, and Two-Spotted - 8 to 30 lbs. per acre as needed when infestation is noted.

**AVOCADOS** - Brown Mite - 8 to 30 lbs. per acre as needed.  
**CANE FRUITS** - Blackberries, Blueberries, Boysenberries, Currants, Dewberries, Gooseberries, Huckleberries, Loganberries, Raspberries: Powdery Mildew - Apply 6 to 12 lbs. per acre when new shoots are 6 inches long and before blossoms open. Repeat at 10 day intervals as necessary.

**CHERRIES** - Blossom Blight, Brown Rot, Powdery Mildew, Leaf Spot, Rust - 3.6 to 9.5 lbs. per acre - Apply pre-bloom, bloom, petal fall, and as a cover spray at 7 to 14 day intervals and as a postharvest foliar treatment for leaf spot. Mites - Silver and Flat - 3.6 to 9.5 lbs. per acre as needed.

**CITRUS** - Rust Mite - Use 8 to 20 lbs. of sulfur per acre according to size and type of tree. For additional information, consult your State Citrus Spray Guide. Begin applications at first signs of damage and repeat as necessary. Rust mites should be controlled at all times of the year in order to prevent russetting of fruit and greasy spot on leaves. Do not apply within 30 days of application.

**FIGS** - Fig Rust Mite - Apply 8 to 20 lbs. per acre when mites first appear. Since the effectiveness of sulfur varies in different localities, State Agricultural Experiment Stations should be consulted as to the effectiveness before application.

**GRAPES** - Powdery Mildew, Bud Mites, Blister Mites, Red Spider - 1.9 to 6 lbs. per acre, beginning when shoots are 6-8 inches long and continuing at 7-10 day intervals. Concord and other Labrusca type grapes may be injured by sulfur.

**MANGOES** - Powdery Mildew - 10 to 30 lbs. per acre. Begin before bloom. Repeat in bloom, after fruit set and 3 weeks later or as necessary.

**MELONS** - Powdery Mildew - Apply 10 to 20 lbs. per acre. Treat when the disease first appears and repeat as necessary. Sulfur can injure plants especially when the temperature exceeds 80°F. Do not use on sulfur sensitive varieties.

**OLIVES** - For control of Olive Mite - Apply 8 to 30 lbs. per acre. Do not use sulfur in hot weather as damage may result to crop and foliage.

**PEACHES AND NECTARINES** - Brown Rot Blossom Blight, Coryneum Blight, Rust, Powdery Mildew, Scab - Apply 10 to 18 lbs. per acre in pre-bloom, bloom and post-bloom periods. Apply when disease threatens during rain periods and repeat at 7 to 10 day intervals. Peach Silver Mites - 10 to 18 lbs. per acre as needed when infestations appear.

**PEARS** - Scab, Powdery Mildew - 8 to 30 lbs. per acre - Pre-bloom, petal fall, shuck and as a cover spray throughout the season. Mites-Blister, European Red, Two-Spotted - 8 to 30 lbs. per acre as needed. Sensitive varieties such as D'Anjou and Comice may be injured by sulfur under certain climatic conditions.

**PECANS** - Powdery Mildew, Leaf Spot, Silver Mite, Flat Mite, Red Spider Mite - Apply 10 to 20 lbs. per acre at bloom or early petal fall. Repeat as necessary, usually 10 to 14 days or after a period of wet weather.



**PISTACHIOS** - Citrus Flat Mite - 8 to 30 lbs. per acre. Apply when mites first appear and repeat as necessary.  
**PLUMS AND PRUNES** - Brown Rot Blossom Blight, Scab, Powdery Mildew, Rust, Leaf Spot - Apply 10 to 18 lbs. per acre in pre-bloom, bloom and post-bloom periods. Apply when disease threatens during rain periods and repeat at 7 to 10 day intervals. Silver Mites - 10 to 18 lbs. per acre as needed.  
**QUINCE** - Brown Rot, Powdery Mildew, Scab - Apply 8 to 30 lbs. per acre. Begin before diseases are expected to appear. Repeat at 7 to 10 day intervals or as necessary.  
**STRAWBERRIES** - Powdery Mildew - 5 to 10 lbs. per acre. Sulfur may injure strawberries under certain climatic conditions.  
**WALNUTS** - Mites - European Red, Pacific, Almond, Two-Spotted - 8 to 30 lbs. per acre. Certain varieties of walnuts are sensitive to sulfur. Do not apply unless the variety is known to be sulfur tolerant.

### VEGETABLE CROPS

**ARTICHOKES** - Globe - Leaf Spot - 3 to 10 lbs. per acre. Begin when disease first appears and repeat at 7 to 10 day intervals as necessary.  
**ASPARAGUS** - Rust - Apply 10 to 20 lbs. per acre after cutting stops, and at 7 to 10 day intervals through the season, during the fern period, apply at 2 to 3 week intervals or with a regular insect program. For Two-Spotted and Brown Mites - Use 4 to 6 lbs. per acre as necessary.  
**BEANS AND PEAS**: Powdery Mildew, Rust, and Leaf Spot - 4 to 7.8 lbs. per acre at first sign of infection and every 7 to 14 days as necessary. Mites - Two-Spotted, Pacific, Strawberry (Atlantic) - 4 to 7.8 lbs. per acre as necessary.  
**CARROTS** - Powdery Mildew - 3 to 10 lbs. per acre. Begin at first sign of disease and repeat at 7 to 10 day intervals.  
**COLE CROPS** - Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Kale, Mustard Greens, Rutabagas, Turnips - Powdery Mildew 3 to 10 lbs. per acre beginning in early leaf stage and repeating every 10 to 14 days as needed, or immediately after rain. Mites - Two-Spotted, Pacific, Strawberry (Atlantic) - 3 to 10 lbs. per acre as necessary.  
**EGGPLANTS** - Powdery Mildew - Apply 3 to 10 lbs. per acre. Begin when first true leaves appear. Repeat at weekly intervals.  
**ONIONS AND GARLIC** - Powdery Mildew - 3 to 10 lbs. per acre. Begin before disease is expected to appear and repeat as necessary.  
**PEPPERMINT AND SPEARMINT** - Powdery Mildew - Apply 4 to 5 lbs. per acre when mint is 5 to 6 inches tall or when disease appears. Repeat twice, at 30 day intervals. Do not apply within 30 days of harvest.  
**PEPPERS** - Powdery Mildew, Leaf Spot - 3 to 10 lbs. per acre beginning in the early leaf stage and repeating every 10 to 14 days as necessary.  
**POTATOES** - Powdery Mildew, Leaf Spot - 3 to 10 lbs. per acre. Apply when disease first appears and repeat at 3 to 4 week intervals. Two-Spotted Mites - 4.0 to 12.5 lbs. per acre as necessary.  
**SPINACH** - Powdery Mildew, Rust (Puccinia) - Apply 3 to 10 lbs. per acre. Apply when diseases first appear. Repeat at 7 to 10 day intervals.  
**TOMATOES** - Tomato Russet Mite - 8 to 30 lbs. per acre. Begin when infestation first occurs and repeat as necessary.

### FIELD CROPS

**ALFALFA** - Lygus Mites, Pacific Mites, Strawberry Mites - 3 to 5 lbs. per acre as necessary. Repeat at two week intervals.  
**CLOVER** - Powdery Mildew, Spider Mites - Apply 3 to 5 lbs. per acre. Begin when crop is in bud stage or at first sign of disease. Repeat at 7-10 day intervals, repeating as necessary.  
**CORN AND SORGHUM** - Powdery Mildew - 3 to 5 lbs. per acre. Apply when disease appears and repeat as necessary. Two-Spotted Mites, Pacific Mites - 3 to 5 lbs. per acre when infestation first appears, repeating as necessary.  
**COTTON** - Strawberry (Atlantic) Mites, Lygus Mites - 3 to 5 lbs. per acre beginning when infestation first occurs and every 7 to 14 days as necessary.  
**COWPEAS** - Rust - Apply 3 to 10 lbs. per acre. Begin soon after seedlings emerge. Repeat at 7 to 10 day intervals through the season.  
**FLAX** - Powdery Mildew - Apply 3 to 10 lbs. per acre. Begin at first sign of disease. Repeat at 7 to 10 day intervals or as necessary.  
**GRASS SEED CROPS** - Timothy Mite - Apply 3 to 10 lbs. per acre. Begin at first sign of infestation. Repeat at 5 to 10 day intervals. Repeat as necessary.  
**HOPS** - Mite Suppression - Apply 3 to 5 lbs. per acre. Begin when infestation first appears and repeat at 5 to 10 day intervals. Repeat as necessary.  
**PEANUTS** - Rust, Powdery Mildew, Leaf Spot - 3 to 10 lbs. per acre beginning in early leaf stage and repeating every 10 to 24 days as necessary.  
**SMALL GRAINS** - Barley, Oats, Rye, Wheat - Powdery Mildew - 3 to 5 lbs. per acre. Apply when disease appears and repeat as necessary. Two-Spotted Mites, Pacific Mites, Strawberry (Atlantic) Mites - 3 to 5 lbs. per acre as necessary.  
**SOYBEANS** - Powdery Mildew - 3 to 10 lbs. per acre. Apply when disease appears and repeat as necessary. Two-Spotted Mites, Pacific Mites, Strawberry (Atlantic) Mites - 3 to 10 lbs. per acre beginning when infestation is first noted, repeating as necessary.  
**SUGAR BEETS** - Powdery Mildew - 10 to 20 lbs. per 100 gals. of water or 30 to 50 lbs. per acre beginning when disease first appears, repeating at 3 to 4 week intervals.  
**VETCH** - Rust - Apply 3 to 10 lbs. per acre. Begin at first sign of disease. Repeat at 7 to 10 day intervals.

### FLOWERS AND ORNAMENTALS

**APPLICATION:** To control the diseases and red spiders listed below, use spray using 6 lbs. per acre. Applications should be made at 5 to 7 day intervals, beginning when the disease or mites first appear and continuing until all danger from the disease is past. During periods of humid or rainy weather it may be necessary to make applications as often as every 2 to 3 days.  
**POWDERY MILDEW** - Aster, Chrysanthemum, Cosmos, Dahlia, Daisy, Delphinium, Dogwood, Euonymus Golden Fleece, Hibiscus, Honeysuckle, Hydrangea, Lady's Mantle, Ligustrum, Lilac, Crepe Myrtle, Phlox, Poplar, Silver Vine, Rose, Spiraea, Sunflower, Verbena, Willow and Zinnia.  
**LEAF SPOT** - Calendula, Cherry Laurel, Clematis, Columbine, English Ivy, Forsythia, Hydrangea, Petunia, Phlox, Sage, Smilax and Snapdragon.  
**BLACK SPOT** - Rose. **POWDERY MILDEW** - Rose.  
**BOTRYTIS BLIGHT** - Hydrangea.  
**RED SPIDERS** - Arborvitae, Carnation, Cedars, Chrysanthemums, Clematis, Hydrangea, Rose, Snapdragon and Sweetpeas.

### POULTRY

**CHICKENS, TURKEYS, DUCKS, GEESE, GAME BIRDS AND PIGEONS** - To control depluming mites, dust liberally on birds and rub into feathers. To treat poultry houses, apply 200 - 250 pounds per 20,000 square feet as a spray (25 - 50 pounds per 100 gallons of water). Apply thoroughly to all interior surfaces of poultry houses. Force spray into cracks and crevices. Repeat applications as needed. Note Physical and Chemical Hazards when applying this product.

### ANIMALS

For use on domestic livestock (equine, cattle, swine, sheep and goats). Also for use on dogs: to control fleas and ticks, dust animal liberally and rub into hair. To treat quarters, apply 200 - 250 pounds per 20,000 square feet as a spray (25 - 50 pounds per 100 gallons of water). Apply thoroughly to all interior surfaces of quarters. Force spray into cracks and crevices. Repeat application as needed. Note Physical and Chemical Hazards when applying this product.

### CHIGGERS

**CHIGGER CONTROL:** For control of chiggers in yard, cover entire lawn, flower garden, shrubs and any place chiggers may hide. This should be done a day or two before protection is desired and should be repeated at weekly intervals. Use approximately 2 pounds per 1000 sq. ft. in enough water for thorough coverage.

**IMPORTANT: USE ONLY ACCORDING TO STATE RECOMMENDATIONS. WHEN USED AS DIRECTED THIS PRODUCT WILL PROVIDE EFFECTIVE AND ECONOMICAL CONTROL OF LISTED DISEASES AND INSECTS AND PROMOTE HEALTHY LUSH GROWTH.**

### WARRANTY STATEMENT

INTERNATIONAL SULPHUR, INC. warrants that this product in its unopened package conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions on the crops specified. There are no other warranties, expressed or implied, concerning the use of this product, other than indicated on the label. This warranty does not extend to the handling or use of this product contrary to label instruction or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes all risk of any such use.

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# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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.

## 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.

## ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. 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 where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of rinsate or equipment wastwaters.

## PHYSICAL AND CHEMICAL HAZARDS

Sulfur dust suspended in air ignites easily. Keep away from heat, sparks, and flame. Do not smoke while applying this product.

## STORAGE & DISPOSAL

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

**STORAGE:** Store unused product in original container only in cool, dry area out of reach of children and animals.

**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 by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by state and local authorities

## 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.

## 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 (REI) of 24 hours.

PPE required for early entry into 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

## GENERAL INFORMATION

Apply this product only as specified on this label. Do not use this product for any uses other than those specified on this label. Superfine Sulfur is formulated for use in water as a spray on fruit, vegetable and ornamental crops for the control of certain fungus diseases and mites. It may be combined in the spray tank with most commonly used fungicides and insecticides. Pour the specific amount of this product on surface of water in nearly filled spray tank or pre-mix in a bucket before pouring into spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. Do not allow mixture to stand. Do not use in low volume gear type spray equipment. Do not combine with emulsified liquids unless previous use of the mixture has proven physically compatible and safe to plants.

**CAUTION:** Do not use sulfur in combination with oil or within weeks of an oil spray. Do not use sulfur on apples or other sensitive crops when shade temperatures exceed, or are likely to exceed 90° F. Do not apply or allow sulfur to drift to Cucurbits (cucumber, cantaloupe, melon, squash) or tung. To do so may result in severe fruit and leaf injury. When growing crops for processing, consult the processor before applying sulfur.

## CHEMIGATION

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel), roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**DO NOT STOP AGITATION WITH SULFUR IN SUPPLY TANK. SULFUR IS HIGHLY CORROSIVE AND EQUIPMENT SHOULD BE CLEANED THOROUGHLY.**

For center pivots, apply during one full revolution of the system.

For portable or solid set systems, apply during the final 15 minutes of the irrigation system. **DO NOT OPERATE IRRIGATION SYSTEM AFTER APPLICATION UNTIL DEPOSIT HAS THOROUGHLY DRIED.**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 serviced connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. For non-public water sprinkler chemigation systems, the system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

JAN 3 2000

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

H9 668-2

