

ADD 111

Ms. Peggy M. Galloway
Landis International, Inc.
P.O. Box 5126
Valdosta, GA 31603-5126

Dear Ms. Galloway:

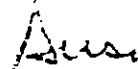
Subject: Red Ball EM-53 Liquid Sulfur
EPA Reg. No. 49668-4
Applications for Pesticide Amendment of 2/1/92 and
07/15/92, Label Changes

The amendments referred to above, submitted in connection with registration under Section 3(c)(7)(A) of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), is acceptable provided you make the following label change before you release the product for shipment bearing the amended labeling: To the written warnings following: "Do not enter without appropriate protective clothing until sprays have dried or dusts have settled" add: "and until at least 24 hours after application."

Submit five copies of your final printed label.

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

Sincerely yours,



Susan T. Lewis
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure



EM-53 LIQUID SULPHUR

FOR CONTROL OF FUNGAL DISEASES,
MITES, & PLANT PESTS

ACTIVE INGREDIENT:

Sulphur.....	53.0%
INERT INGREDIENTS.....	47.0%
TOTAL	100.0%

This product contains 6 lbs. of Sulphur per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

IF ON SKIN: wash immediately with soap and water.

IF IN EYES: immediately flush eyes with plenty of clear water for at least 15 minutes.

IF SWALLOWED: drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

See Side Panel For Additional Precautionary Statements

EPA Reg. No. 49668-4

EPA Est. No. 49668-TX-1

INTERNATIONAL CHEMICALS, INC.
P.O. BOX 611
MT. PLEASANT, TEXAS 75455

NET CONTENTS 2 1/2 GALLONS

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ACCEPTED
with COMMENT
in EPA L. 11/1/84

AUG 31 1984
Under Fungicide
amendment
registered under...

49668 4

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Avoid breathing vapors or spray mist. May cause irritation of nose, throat or skin. Avoid contact with eyes, skin and clothing. Do not contaminate food or feed products. Keep out of reach of children.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Do not apply directly to lakes, streams, or ponds. 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 equipment washwaters.

DIRECTIONS FOR USE

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

RE-ENTRY STATEMENT

Do not enter treated area without protective clothing until sprays have dried or dusts have settled. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

CAUTION: Area treated with REDBALL EM-53 LIQUID SULPHUR on _____ (date of application) _____ Do not enter without appropriate protective clothing until sprays have dried or dusts have settled. In case of accidental exposure, see the Statement for Practical Treatment on this label.

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. EM-53 Liquid Sulphur 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 of the commonly used fungicides and insecticides. Pour the specific amount of this product on surface of water in near, 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 in spray equipment. Sulphur is highly corrosive, and equipment should be cleaned thoroughly after each day's spraying.

HOMEOWNER USE

1 level teaspoon per gallon of water is equivalent to 1 pint per 100 gallons. Make application according to specific instructions given below for those crops where rates are given in pints/hundred gallons. (For example: 2 pints per 100 gallons are equivalent to 2 level teaspoons per gallon.) 1 level teaspoon per 100 sq. feet is equivalent to 4 pints per acre. Make application according to specific instructions given below for those crops where rates are given in pints/acre. (For example: 4 pints per acre are equivalent to 1 level teaspoon per 100 sq. ft.)

CHEMIGATION

Refer to supplemental labeling entitled "REDBALL EM-53 LIQUID SULPHUR: CHEMIGATION INFORMATION" for use directions for chemigation.
DO NOT APPLY THIS PRODUCT THROUGH ANY IRRIGATION SYSTEM UNLESS THE SUPPLEMENTAL LABELING ON CHEMIGATION IS FOLLOWED.

or on citrus within 21 days of an oil application.

Do not use sulphur in combination with oil or within two weeks of an oil spray. Do not use sulphur on apples or other sensitive crops when shade temperatures exceed, or likely to exceed 90F. Do not apply or allow sulphur to drift to Cucurbits (cucumber, cantaloupe, melon, squash) or fungi. To do so may result in severe fruit and leaf injury.

REDBALL EM-53 LIQUID SULPHUR COPY

see
addition

see
replacement

see -
replacement

RECOMMENDATIONS:

FRUIT TREE CROPS: Unless otherwise specified for specific crops, dosage rates are given as pints per 100 gals. water for use in a thorough coverage spray. The total amount of sulphur per acre should be 1 to 4 gals. depending on the size of the trees. Because of variations in the types of spray equipment used, a range of low and high rates is listed. For high volume sprayers (output 800 to 1000 gals. spray per acre) use the low rate per 100 gals. For low volume sprayers (output 20 to 300 gals. spray per acre) use the high rate per 100 gals. Apply in sufficient water for thorough coverage. For aerial application, use a minimum of 5 gals. of finished spray per acre.

APPLE, PEAR:

- Scab: Pre-bloom through calyx sprays 1 1/2 to 3 1/2 pints
- Cover sprays 3/4 to 2 pints
- Powdery Mildew: Pre-bloom through calyx sprays 3 pints
- Cover sprays 2 pints

CHERRY, PLUM, PRUNE:

- Brown Rot, Leafspot:
 - Pink and Bloom Sprays 1 1/2 to 3 1/2 pints
 - Petal fall, shuck & cover sprays 3/4 to 1 1/4 pints

CITRUS:

- Rust Mite, Clover Mite:
 - Apply sprays November thru May 3/4 to 4 1/2 pints

Thrips: (Early spring treatment for the reduction of thrips population.) Apply 1 to 2 gallons per acre in sufficient water for thorough coverage. Make application after spray flush has made 3 inch growth. Repeat if necessary. Do not apply within 21 days of an oil application.

PEACH, NECTARINE: Powdery Mildew, Brown Rot, Scab, Thrips:

- Pink and Bloom Sprays 1 1/2 to 3 1/2 pints
- Petal fall, shuck & cover sprays 3/4 to 1 1/4 pints

Applications to mature nectarines may cause discoloration.

FIELD AND VINE CROPS: Unless otherwise specified for specific crops, dosage rates are given as pints of EM-53 Liquid Sulphur per acre. This product should be applied by ground equipment, aircraft or sprinkler irrigation systems in sufficient water to provide thorough coverage.

BEANS: (Dry, Colored, Green, Snap, Lima): Powdery Mildew, Rust: ~~Use~~ ^{Apply} 8 pints of EM-53 Liquid Sulphur per acre in sufficient water for thorough coverage. Begin application at the first sign of disease. Repeat at 7 to 14 day intervals to keep new growth protected.

~~**COTTON:** Mites: 2 pints for early season control and up to 1 gallon for mid to late season control. see replacement~~

GRAPE: Powdery Mildew: ^{Apply} 1 to 2 pints per 100 gallons water, maximum of 8 pints EM-53 Liquid Sulphur per acre in spring and summer. Make first application when shoots are 6 to 8 inches long, second when shoots are 12 to 15 inches long, and third about bloom stage. The timing, rate, and number of applications will vary with local conditions. Consult State Agricultural Extension Service or State Agricultural Experiment ^{Stations} in your own region for specific information. Follow the USE PRECAUTIONS on this label.

PEANUTS: ~~Use~~ ^{Apply} 2 to 4 pints per acre of EM-53 Liquid Sulphur in enough water for good coverage. Begin 40 to 60 days after planting. Use 7 to 14 day intervals as long as needed to control rust.

~~**SUGAR BEETS, TABLE BEETS:** Powdery Mildew, Mites: Use 8 to 16 pints per 100 gallons of water as needed. Repeat applications should be made at 10-20 day intervals as necessary throughout the season. see replacement~~

POTATOES, PEAS, BROCCOLI, BRUSSEL SPROUTS, CABBAGE, CAULIFLOWER: ~~For control of~~ Powdery Mildew, ~~and~~ Mites: Apply ² 7 pints per acre. Start in early leaf stage. Repeat as necessary.

STRAWBERRIES: Powdery Mildew: ^{Apply} 2 pints ^{Apply} at first sign of infection and repeat at 3 week intervals. For strawberries that will be canned, discontinue application of sulphur well before harvest in accordance with local canner's recommendations.

TOMATOES: Tomato Russet Mite: ^{Apply} 1/2 to 1 gallon per acre depending on the size of plants. Use full coverage sprays.

ONIONS, CARROTS: ~~For control of~~ Mites, ~~and~~ Powdery Mildew: Apply ² 7 to 12 pints at first sign of mites or disease and repeat as necessary.

WHEAT, OATS, BARLEY, RYE, SORGHUM, CORN, SOYBEANS: ~~For control of~~ Mites, ~~and~~ Powdery Mildew: Apply 4 to 20 pints per acre. Repeat as necessary.

WALNUTS: ~~For control of~~ Mites: Apply 8 to 28 pints per acre. Repeat as necessary. CAUTION: Certain varieties of walnuts are sensitive to sulphur sprays.

ORNAMENTALS: (Aster, Carnations, Cherry Laurel, Chrysanthemums, Crepe Myrtle, English Ivy, Gladiolus, Hollyhock, Laurel, Petunia, Sage, Sunflowers, Sweet Peas, Violets, Zinnias) ~~For control of~~ Powdery mildew and leaf spots caused by fungi imperfecti and ascomycetes; Apply 4 to 8 pints per 100 gallons. Begin when disease first appears and repeat at 5 to 10-day intervals.

ROSES: Black Spot, Brown Canker, Leaf Spot, Powdery Mildew, Rust: Apply 4 to 8 pints per 100 gallons. Begin when disease first appears and repeat at 5 to 10-day intervals

- See "Additions"

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STORAGE AND DISPOSAL

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

STORAGE: Store unused product in original container only in a 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 approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY STATEMENT

INTERNATIONAL CHEMICALS, 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 conditions not reasonably foreseeable to seller and buyer assumes all risk of any such use.

[REPLACEMENTS]:

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 inter-tidal 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 washwaters.

RE-ENTRY STATEMENT:

Do not enter into treated area until at least 24 hours after the completion of application to the area unless wearing the protective clothing listed below. During early re-entry into treated areas (less than 24 hours after the completion of application) to perform hand labor tasks, wear long pants (or coveralls), long-sleeved shirt, shoes, socks, chemical/water resistant gloves, and goggles or face shield.

RECOMMENDATIONS:

COTTON: Mites, Thrips, Fleahoppers: Apply 2 pints for early season control and 1 to 1 gallon for mid- to late season control.

SUGAR BEETS, TABLE BEETS: Powdery Mildew, Mites: Apply 8 to 16 pints per acre in sufficient water as needed. Repeat applications should be made at 10-30 day intervals as necessary through the season.

[ADDITIONS]:

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HAZARDS TO HUMANS & DOMESTIC ANIMALS:

Pesticide Handlers: During mixing, loading and application of this product, wear long pants (or coveralls), long-sleeved shirt, shoes, socks, chemical/water resistant gloves, and goggles or face shield.

RECOMMENDATIONS:

CHIGGER CONTROL: For control of chiggers in yard, spray entire lawn, flower garden, shrubs, and any place chiggers may hide. This should be done 1 - 2 days before protection is desired and should be repeated at weekly intervals. Apply approximately 10 gallons per acre. One gallon will cover 2,000 - 2,500 sq. ft.