



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

March 3, 1997

Ms. Joanne C. Striebich, Registration and Labeling Specialist
Wilbur-Ellis Company, Agricultural Services Corporate Office
191 West Shaw Avenue, Suite 107
Fresno, CA 93704-2876

RE: Amended Label, Golden Dew (EPA Reg. No. 2935-407)
Your submission dated January 8, 1997

Dear Ms. Striebich:

The Agency has reviewed the subject labeling submission, and it is accepted with comments.

The Agency recommends that for beans and peas, and almonds Wilbur-Ellis clarifies the "leaf spot" intended by indicating the disease organism responsible for the leaf spot.

A photocopy of the label stamped "Accepted with Comments" is enclosed for records. The submitted labeling stamped "Accepted with Comments" is being included in the regulatory file jacket for the product.

If you have any questions or concerns, please call me at (703) 305-6226, or Carl Grable of my staff at (703) 305-7392.

Sincerely yours,

A handwritten signature in cursive script that reads "Carl Grable for".

Connie B. Welch,
Product Manager 21
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

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GOLDEN-DEW[®]

(FUNGICIDE AND INSECTICIDE)

ACTIVE INGREDIENT	By Wt.
Sulfur	92.0%
INERT INGREDIENT	8.0%
	<u>100%</u>

EPA Reg. No. 2935-407-AA

EPA Est. No. 2935-CA-15

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. Call a physician if irritation persists.

SEE INSIDE FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS

In Case of Emergency, Call CHEMTREC 800/424-9300

NET CONTENTS: 50 POUNDS

WILBUR-ELLIS COMPANY
P.O. BOX 16458 • FRESNO, CA 93755

ACCEPTED
with COMMENTS
In EPA Letter Dated

3-3-97

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

2935-407

REC-25-10001
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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 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), notification to workers, 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 to 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: A) Coveralls; B) Waterproof gloves; C) Shoes plus socks; D) Protective eyewear.

STORAGE AND DISPOSAL

1. Prohibitions: Do not contaminate water, food or feed by storage or disposal.
2. Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
3. Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.
4. Storage: Store in original container only and keep sealed. Store in closed storage areas. Use caution when moving, opening, closing or pouring. Store in a dry place...

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMAN AND DOMESTIC ANIMALS

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: A) Long sleeved shirt; B) Long pants; C) Waterproof gloves; D) Shoes plus socks; E) Protective eyewear. 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.

ENVIRONMENTAL HAZARDS

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 contaminate water when disposing of equipment wash waters. Do not apply when weather conditions favor drift from treated areas.

PHYSICAL HAZARD

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

USER SAFETY RECOMMENDATIONS

User should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet; 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing; 3) 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.

MIXING INSTRUCTIONS: Pour recommended amount of GOLDEN-DEW into 1/3 filled 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.

APPLICATION INSTRUCTIONS: The desired ratio of GOLDEN-DEW to water should not exceed 2 pounds per gallon.

Dilute Application:
Field: Specified rate in 20 to 50 gallons of water per acre.
Orchard: Specified rate in 200 to 400 gallons of water per acre.

Concentrated Application:
Field: Specified rate in 5 to 10 gallons of water per acre.
Orchard: Specified rate in 20 to 100 gallons of water per acre.

Aerial Application:
Field: Specified rate in 3 to 20 gallons of water per acre.
Orchard: Specified rate in 10 to 20 gallons of water per acre.

CHEMIGATION: Refer to supplemental labeling entitled CHEMIGATION: GOLDEN-DEW for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

Do not use sulfur with oil or within two weeks of an oil application unless in a dormant, delayed dormant, or postharvest application. For citrus, do not apply within 21 days of an oil spray. When growing crops for processing, consult the processor before applying sulfur.

For control of MITES, use the higher rates shown under conditions of high pest pressure. For control of FUNGI, use higher rates shown when weather conditions indicate a potential for increased pest pressure.

Sulfur will cause severe fruit and leaf injury to sulfur sensitive crops. Do not allow this material to drift onto sulfur sensitive Melons, Squash, Cucumbers, Apricots or other plants which may be injured by sulfur.

Do not apply when shade temperatures exceed or are likely to exceed 90°F. Sulfur may burn foliage and fruit during periods of high temperatures and under certain climatic conditions.

Consult with State Agricultural Experiment Station or State Agricultural Extension Service personnel for additional information consistent with label cautions and directions.

COMPATIBILITY: GOLDEN-DEW is compatible with most pesticides. Because conditions vary, a small amount of the pesticide should be mixed prior to application to examine their compatibility. ALWAYS ADD THE PESTICIDE INTO THE MIXED GOLDEN-DEW.

WILBUR-ELLIS recommends the use of a surfactant such as Sygard 309 to improve coverage.

RECOMMENDATIONS FOR USE

FIELD CROPS

Crop	Pest	Rate	Directions
Alfalfa	Lygus Pacific Mite Strawberry (Atlantic) Mite Red Spider Mite	10-20 lbs/acre	Repeat at 1 to 2 week intervals as needed.
Cereals: Corn, Wheat, Barley, Oats, Rye, Sorghum	Two Spotted Mite Grass Banks Mite Pacific Mite Atlantic Mite (small grains only) Red Spider Mite Powdery Mildew	6-15 lbs/acre	Apply when disease first appears or when mites appear on bottom leaves and repeat as necessary.
Clover	Powdery Mildew Rust Spider Mites	15-20 lbs/acre	Apply when crop is in bud stage or at first sign of disease or mites. Repeat at 7-10 day intervals or as necessary.
Cotton	Red Spider Mite Atlantic Mite	2-10 lbs/acre	Begin when infestation first occurs and repeat at 1 to 2 week intervals as necessary or with regularly scheduled insecticide program
	Lygus	10-15 lbs/acre	
Grass Seed Crops	Timothy Mites Rust	3-6 lbs/acre	Apply at first sign of disease or mites and repeat as necessary.
Hops	Red Spider Mite	2-4 lbs/acre	Apply when mites first appear and repeat as necessary.
Peanuts	Rust Powdery Mildew Leaf Spot Red Spider Mite	3-12 lbs/acre	Apply at early leaf stage and repeat as necessary.
Soybeans	Powdery Mildew Leaf Spot	6-15 lbs/acre	Apply when disease first appears and repeat as necessary.
Sugar Beets	Powdery Mildew Two-Spotted Mite Pacific Mite Strawberry (Atlantic) Mite Red Spider Mite	3-40 lbs/acre	Apply when disease or mites first appear and repeat at 3 to 4 week intervals or as necessary.
Spearmint Peppermint	Powdery Mildew	4-6 lbs/acre	Apply when mint is 5-6" tall or when disease first appears. Repeat twice, at 30 day intervals. Do not apply within 30 days of harvest.

VEGETABLE CROPS

Crop	Pest	Rate	Directions
Asparagus	Rust	15-35 lbs/acre	Use after cutting stops. Irrigate and cultivate before applying sulfur. Repeat at 7-10 day intervals throughout season.
	Two-Spotted Mite Brown Mite	6-10 lbs/acre	Apply when mites first appear and repeat as necessary.
Beans Peas	Powdery Mildew Leaf Spot Spider Mite Thrips	6-10 lbs/acre	Begin application when pest first appears and repeat as necessary.
	White Mold	10-20 lbs/acre	
Carrots Garlic Peppers Onions	Powdery Mildew Petrobia Mite Botrytis Blight	10-15 lbs/acre	
Celery	Early Blight Late Blight	3-10 lbs/acre	Begin as soon as plants emerge and repeat at 7-10 day intervals or as necessary.
Broccoli Brussels Sprouts Cabbage Cauliflower Greens: Collards, Kale, Mustard	Powdery Mildew Red Spider Mite	3-10 lbs/acre	Begin application when pest first appears and repeat as necessary.
Lettuce	Powdery Mildew Rust Spider Mite	5-6 lbs/acre	Apply at early leaf stage and repeat every 14 days as needed.
Melons Squash	Powdery Mildew	2-4 lbs/acre	Apply when disease first appears and repeat as needed. Sulfur can injure plants, especially when temperatures reach 95°F. Do not use on Sulfur sensitive varieties.
Rutabagas Table Beets Turnips	Powdery Mildew Red Spider Mite	3-10 lbs/acre	Apply at early leaf stage and repeat applications every 14 days as needed.
Potatoes	Powdery Mildew Red Spider Mite Two-Spotted Mite	6-10 lbs/acre	Apply at early leaf stage and repeat applications every 14 days as needed.
Tomatoes	Tomato Russet Mite Powdery Mildew	15-30 lbs/acre	Apply when pest first appears and repeat as necessary or with regularly scheduled insect program.

RECOMMENDATIONS FOR USE (continued)
FRUITS, NUTS AND BERRIES

Crop	Pest	Rate	Directions
Almonds	Brown Almond Mite European Red Mite Two-Spotted Mite Pacific Mite Strawberry (Atlantic) Mite Silver Mite Flat Mite Red Spider Mite	10-20 lbs/acre	Apply at bloom or early petal fall and repeat as necessary, usually at 10-14 day intervals or after a period of wet weather.
	Scab Brown Rot Leaf Spot	8-30 lbs/acre	
Apples Pears	Scab Powdery Mildew Blister Mite Red Spider Mite Rust Mites Pear Psylla	10-20 lbs/acre	Apply at prebloom and petal fall. Apply with cover sprays throughout the season. Do not apply on sulfur sensitive varieties except in dormant or delayed dormant stage. Do not apply on d'Anjou pears.
Avocados	Brown Mite	10-20 lbs/acre	Apply at first sign of mites and repeat as necessary.
Blackberries Blueberries Boysenberries Currants Dewberries Gooseberries Huckleberries Loganberries Raspberries	Powdery Mildew	4-10 lbs/acre	Apply at first sign of disease and repeat as necessary.
Citrus	Six-Spotted Mite Citrus Mite Citrus Flat Mite Yuma Spider Mite Flat Mite Silver Mite Rust Mite Red Spider Mite	4-30 lbs/acre	Apply in any spray Not Containing Oil. Do not apply 21 days preceding or following an oil application.
Figs	Fig Rust Mite	15-30 lbs/acre	Apply in spring and early summer when damage to foliage (russetting) appears. Repeat application if necessary.
Grapes	Powdery Mildew Bud Mite Blister Mite Red Spider Mite	3-5 lbs/acre	Apply when shoots are 2-3" long, repeat before blossoms open and continue as necessary on 7-10 day cycle. Concord and other Labrusca type grapes may be injured by sulfur.

FRUITS, NUTS AND BERRIES (continued)

Crop	Pest	Rate	Directions
Mangos	Powdery Mildew	10-30 lbs/acre	Begin application before bloom, repeat at bloom, after fruit set and 3 weeks later or as necessary.
Pecans	Powdery Mildew Sooty Mold Two-Spotted Mite Red Spider Mite	5-10 lbs/acre	Apply throughout season as needed. Some varieties are sensitive to sulfur sprays under certain conditions. Do Not apply unless varieties are known to be tolerant of sulfur.
Pistachios	Citrus Flat Mite	10-20 lbs/acre	Apply when mites first appear and repeat as necessary. May be applied to bearing or non-bearing trees up to day of harvest.
Stone Fruits: Cherries Peaches Nectarines Plums Prunes	Powdery Mildew Leaf Spot Brown Rot Blossom Blight Coryneum Blight Rust Silver Mite Flat Mite Red Spider Mite	15-25 lbs/acre	Apply at bloom or early petal fall and repeat as necessary, usually 10-14 days or after a period of wet weather. Do Not apply after jacket stage on Plums, Prunes or Nectarines. For Brown Rot, apply when fruit starts to ripen. Apply as a post harvest foliar for Cherry Leaf Spot.
Strawberries	Powdery Mildew Red Spider Mite	4-10 lbs/acre	Apply at early leaf stage and repeat as necessary. Do Not use on sulfur sensitive varieties.
Walnuts Macadamias	Pacific Mite Almond Mite Two-Spotted Mite Red Spider Mite Broad Mite	10-30 lbs/acre	Apply throughout season as needed. Some varieties are sensitive to sulfur sprays under certain conditions. Do Not apply unless varieties are known to be tolerant to sulfur.

ORNAMENTALS

Crop	Pest	Rate	Directions
Asters Carnations	Powdery Mildew Rust	5-6 lb/100 gal or (3 tablespoons per gallon)	Spray for full coverage, wetting both sides of leaves. Begin applications when new growth appears in the spring and repeat every 5-10 days as needed and after rain.
Calendulas Cedars Cherry Laurels Chrysanthemums Hollyhock Juniper Smilax Spruce	Leaf Spot Powdery Mildew		
Clematis Columbine English Ivy Laurel Petunia Sage	Leaf Spot		

ORNAMENTALS (continued)

Crop	Pest	Rate	Directions
Cosmos Crepe Myrtle Dahlia Delphinium Dogwood Euonymus Gladiolus Golden Fleece Hibiscus Holly Lady's Mantle Ligustrum Lilac Poplars Silver Vine Spiraea Sunflower Sweet Pea Verbena Violets Willow Zinnias	Powdery Mildew	5-6 lb/100 gal or (3 tablespoons per gallon)	Spray for full coverage, wetting both sides of leaves. Begin applications when new growth appears in the spring and repeat every 5-10 days as needed and after rain.
Roses	Black Spot Powdery Mildew		

NUTRIENTS

GOLDEN DEW contains sulfur, which is an essential nutrient for plant growth. When applied as directed, GOLDEN DEW can be considered a necessary component of the total plant nutrient profile. Local agricultural authorities may be a reliable source for additional information pertaining to this use. WILBUR-ELLIS recommends GOLDEN DEW on the following crops as a micronutrient supplement:

Alfalfa	Cherries	Mint	Prunes
Almonds	Citrus	Mustard Greens	Raspberries
Apples (except sensitive varieties)	Collards	Nectarines	Rutabagas
Asparagus	Corn	Onions	Seed Alfalfa
Avocados	Cotton	Peaches	Small Grains
Beans	Currants	Peanuts	Sorghum
Blackberries	Dewberries	Pears (except D'Anjou)	Soybeans
Blueberries	Garlic	Peas	Strawberries
Boysenberries	Gooseberries	Pecans	Sugar Beets
Broccoli	Grapes	Peppers	Table Beets
Brussels Sprouts	Huckleberries	Pistachios	Tomatoes
Cabbage	Kale	Plums	Turf
Carrots	Loganberries	Potatoes	Turnips
Cauliflower	Mangos		Walnuts (except sensitive varieties)
	Melons (except sensitive varieties)		

NOTICE: The statements made on this label are believed to be true and accurate but because of conditions of use which are beyond our control, WILBUR ELLIS COMPANY does not make, nor does it authorize any agent or representative to make, any warranty, guaranty or representation, expressed or implied, concerning this material or the use thereof, except in conformity with the statements on the label. Neither WILBUR ELLIS COMPANY nor the seller shall be held responsible in any manner for any personal injury or property damage or loss resulting to the buyer or to the other person from handling, storage or use of this material not in accordance with directions. The buyer assumes all risk and liability resulting from improper handling, storage or use and accepts and uses this material on these conditions.

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SUPPLEMENTAL LABEL

GOLDEN DEW

CHEMIGATION

EPA REG. NO. 2935-407

DIRECTIONS FOR USE:

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

Apply this product only through sprinkler (center pivot, lateral move, end tow, side or wheel roll, traveler, big gun, solid set, or hand move) irrigation systems.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

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.

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 adjustment should the need arise.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

1.) 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 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

2.) 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.

3.) The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump.

4.) The pesticide injection pipeline must 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.

5.) 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.

6.) 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 pesticides and capable of being fitted with a system interlock.

SULFUR

Wilbur-Ellis Company
191 W. Shaw Ave., Suite 107
Fresno, CA 93704

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GOLDEN-DEW

7.) Do not apply when wind speed favors drift beyond the area intended for treatment.

8.) Apply at rate specified on the container label for individual crops. Do not allow mixture to stand. Keep agitator running during application. Apply at end of irrigation period. Do not operate irrigation system after application until deposit has thoroughly dried.

SPRINKLER CHEMIGATION

1.) 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.

2.) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

3.) 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.

4.) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

5.) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

6.) 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 pesticides and capable of being fitted with a system interlock.

7.) Do not apply when wind speed favors drift beyond the area intended for treatment.

8.) Apply at rate specified on the container label for individual crops. Do not allow mixture to stand. Keep agitator running during application. Apply at end of irrigation period. Do not operate irrigation system after application until deposit has thoroughly dried.

This labeling must be in the possession of the user at the time of pesticide application.

All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

October 29, 1992

No. 435

CROPS ADDED TO GOLDEN DEW LABEL:

Clover, grass seed crops, hops, spearmint, peppermint, peppers, celery, broccoli, brussels sprouts, cabbage, cauliflower, greens (collards, kale, mustard), lettuce, squash, rutabagas, table beets, turnips, avocados, blackberries, blueberries, currants, dewberries, gooseberries, huckleberries, loganberries, mangos, pecans, walnuts, macadamias, asters, carnations, calendulas, cedars, cherry laurels, chrysanthemums, hollyhock, juniper, smilax, spruce, clematis, columbine, english ivy, laurel, petunia, sage, cosmos, crepe myrtle, dahlia, delphinium, dogwood, euonymus, gladiolus, golden fleece, hibiscus, holly, lady's mantle, ligustrum, lilac, poplars, silver vine, spirea, sunflower, sweet pea, verbena, violets, willow, zinnias and turf.

PESTS ADDED TO GOLDEN DEW LABEL:

- ALFALFA = Red Spider Mite
- CEREALS = Red Spider Mite
- PEANUTS = Powdery Mildew, Leaf Spot, Red Spider Mite
- SOYBEANS = Leaf Spot
- SUGAR BEETS = Two-Spotted Mite, Pacific Mite, Strawberry (Atlantic) Mite, Red Spider Mite
- BEANS, PEAS = Leaf Spot
- CARROTS, GARLIC, ONIONS - Botrytis Blight
- TOMATOES = Powdery Mildew
- ALMONDS = Silver Mite, Flat Mite, Red Spider Mite, Brown Rot, Leaf Spot
- APPLES, PEARS = Blister Mite, Red Spider Mite, Rust Mite, Pear Psylla
- CITRUS = Flat Mite, Silver Mite, Rust Mite, Red Spider Mite
- GRAPES = Bud Mite, Blister Mite, Red Spider Mite
- STONE FRUITS = Flat Mite, Red Spider Mite