



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

SEP 22 1998

Ms. Terri Aal
Siemer and Associates, Inc.
4672 West Jennifer, Suite 103
Fresno, California 93722

Subject: Dormex
EPA Registration No. 54555-2
Your label amendment application dated July 28, 1998

Dear Ms. Aal,

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Make the following changes to the label:
 - a. In the "ENGINEERING CONTROLS STATEMENTS:" section, add
"This product may be applied only with the applicator in an enclosed cab."
 - b. In the last sentence in the "ENGINEERING CONTROLS STATEMENTS:" section, change "trees" to "vines".
 - c. In the third sentence in the "ENVIRONMENTAL HAZARDS" section, delete the phrase that reads "For terrestrial uses,". This is used only when the label contains both terrestrial and aquatic uses.
 - d. In the first sentence after the heading "DIRECTIONS FOR USE - Cont'd" (on page 6), change the phrase "many deciduous plants" to "grapes and kiwifruit". These are the only two uses that are on the label.
 - e. At the bottom of page 7, in the second paragraph in the "SPRAY DRIFT" section, delete "(35 to 40 days for apples)".
 - f. Delete all use of the term "orchard" on the label. We checked with agricultural extension research personnel

in California to see what the appropriate term was for a "patch" of kiwifruit vines. They had both sometimes heard the term "orchard" used for this but felt that "vineyard" is much more commonly used and is more appropriate. Use solely of the term "vineyard" will therefore refer to "patches" of either kiwifruit vines or grape vines.

- g. If the EPA Establishment No. is placed on the label it must be completed.
2. Submit one copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration may be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Sincerely yours,

/s/

Cynthia L. Giles-Parker
Product Manager (22)
Fungicide Branch
Registration Division (7505C)

Attachment: Label stamped "ACCEPTED with COMMENTS"

RESTRICTED USE PESTICIDE

Due to corrosive effects to eyes and skin.

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

A Growth Regulator for Stimulating Uniform Budbreak

DORMEX™

ACTIVE INGREDIENT	BY WEIGHT
Hydrogen cyanamide.....	50.00%
OTHER INGREDIENTS.....	50.00%
TOTAL.....	<u>100.00%</u>
U.S. PATENT 4,487,625	
4.3 lbs. Active Ingredient per gallon	

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

SEE ADDITIONAL PRECAUTIONS ON THE SIDE PANEL STATEMENT OF PRACTICAL TREATMENT.

IF IN EYES: Holding lids apart, flush eyes with gentle stream of water for 15 minutes. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists. Remove and wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. If he is alert, have patient drink water. 1-2 cups up to five years of age. Up to 1 quart over 5 years of age. Do not exceed above quantities in order to avoid vomiting. NOTE TO PHYSICIAN: Immediate lavage of stomach. Hydrogen cyanamide is not hydrogen cyanide and does not degrade to hydrogen cyanide. Do not induce vomiting or give anything by mouth to an unconscious person.

APPLICATORS AND OTHER HANDLERS MUST WEAR:

- Chemical-resistant protective suit
- Chemical-resistant gloves such as Barrier Laminate, or Butyl Rubber \geq 14 mils, or Nitrile Rubber \geq 14 mils, or Neoprene Rubber \geq 14 mils, or Polyvinyl Chloride (PVC) \geq 14 mils, or Viton \geq 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear - persons who mix, load or transfer must wear goggles. A full-faced respirator may be substituted for goggles.
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading.
- A respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)

USER SAFETY REQUIREMENTS:

- No alcoholic beverages. Do not consume alcoholic beverages prior to, during, and following (24 hours) handling this product.
- Dispose of Contaminated Clothing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with liquid from this product. Do not reuse them.
- Clean and maintain PPE: 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. Wash PPE after each day's use.

ENGINEERING CONTROLS STATEMENTS:

- Closed Systems: This product must be mixed, loaded, and transferred only in a closed system.
- Closed Systems and Enclosed Cabs/Cockpits Requirements (if applicable):
The closed system and enclosed cab or cockpit must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)). The handler PPE requirements may be reduced or modified as specified in the WPS.
- The operating pressure of the spray rig shall be no more than 40 psi with the use of low pressure nozzles on dilute boom sprayers and no more than 100 psi on airfan sprayers. Airfan sprayers should have the fan adjusted so that the spray mist does not greatly exceed the top of trees being sprayed.

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.
 - Avoid contact with spray contaminated surfaces.
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ENVIRONMENTAL HAZARDS

Do not apply this product to any area in which an endangered species has been identified or in such a manner that drift from applications of this product could result in destroying an endangered species. This limitation applies only to areas that have been identified by and are protected by State and Federal Agencies. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark or closer than 300 yards to waters containing fish. Do not contaminate water by the cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff is likely to occur. Do not apply in any manner not specified on this label. Do not spray when bees are active in the field.

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 or protected supervisors may be in the area during application. During the application no person shall be within 100 yards of the area to be treated unless involved in application or mix/load operations. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Applicators must not work more than 26 days per a 60 day season. Mixers/loaders must not work more than 12 days per a 60 day season. Anyone who mixes, loads and applies this product must not work more than 30 days per a 60 day season. The above exposure restrictions are for 8 hour work-days.

Do not apply this product through any type of irrigation system.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 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 intervals. 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 72 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:

- Chemical-resistant protective suit
- Chemical-resistant gloves, such as Barrier Laminate, or Butyl Rubber \geq 14 mils, or Nitrile Rubber \geq 14 mils, or Neoprene Rubber \geq 14 mils, or Polyvinyl Chloride (PVC) \geq 14 mils, or Viton \geq 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear - persons who mix, load or transfer must wear goggles. A full-faced respirator may be substituted for goggles.
- Chemical-resistant headgear for overhead exposure

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

STORAGE AND DISPOSAL

STORAGE: Keep under cool conditions, not to exceed 20°C (68°F). Do not store in direct sunlight.

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Keep pesticide in original container.

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

DIRECTIONS FOR USE - Cont'd

Dormex is a plant growth regulator that will stimulate more uniform budbreak on many deciduous plants. More uniform budbreak will occur in plants that have received their full chill hour requirement or somewhat less than their full dormancy. Promoting more uniform budbreak in the spring can have significant benefit in promoting more uniform flowering and more uniform maturity at harvest. The following provides directions on how to achieve these benefits and how to avoid possible difficulties in the use of Dormex.

This label must be in the possession of the user at the time of Dormex application.

EQUIPMENT CONTAMINATION

Spray equipment used for Dormex application should be thoroughly cleaned of residual spray materials. Residual spray in the tank or sprayer plumbing may react with Dormex, potentially reducing the effective concentration of Dormex. Sprays containing metal ions, particularly copper, will form a black insoluble salt that will coat the sprayer and be difficult to remove. More importantly, this reaction will reduce the available active ingredient concentration.

DORMANT SPRAY EFFECTIVENESS

Early dormant sprays containing copper should not be followed by Dormex by less than 30 days or the effect of the copper spray may be reduced.

DORMANT SPRAYS CONTAINING OIL

Dormant sprays containing oil should not be made closer than 14 days before or after Dormex application (delayed dormant applications are preferred). Some new wood dieback may result if oil is applied closer than this interval. When oil and copper spray mixtures must be used for insect and/or disease control, Dormex should be applied 30 or more days before normal budbreak and the oil and/or copper spray should be made as a delayed dormant spray, which coincides with early budbreak. This practice will give three or more weeks separation.

COVER CROPS

When spraying Dormex in areas of vineyards or orchards with cover crops, injury may occur from spray applications to the target crop. This injury is usually temporary, but some crops may be sensitive and be defoliated. If there is concern about the cover crop, a test spray of a small area over the cover crop to test the plant sensitivity to Dormex using the intended surfactant is recommended.

POTENTIAL CROP LOSS

Users of Dormex are advised that drift to crops that are in bloom may completely remove or damage all of the flowers, resulting in complete crop loss. When spraying close to susceptible crops, for example, lemons, crops in bloom, sensitive foliage, etc., a buffer zone is suggested to be used. Extreme care must be used to avoid contact of the spray or drift with foliage, green stems, or fruit of desirable crops since severe damage and crop loss may result.

SPRAY DRIFT

Avoid spraying under conditions of a temperature inversion when drift hazard is increased. Coarse sprays are less likely to drift and are recommended to be used in Dormex applications. Do not use nozzles or nozzle configurations which promote fine spray droplets. Do not increase spray volume by increasing nozzle pressure, since this will increase the number of fine droplets in the spray. It is important to understand that the responsibility for control of spray drift is the responsibility of the person making the use recommendation, the applicator and the grower. Read the "Conditions of Sale" on the Dormex label before using this product. If the terms in the "Condition of Sale" are not acceptable, return the product unopened at once.

To limit drift, use a coarse droplet nozzle with nozzle pressure not to exceed 40 psi for dilute boom sprayers and 100 psi for air fan sprayers, and spray only to wet. Do not exceed 4 gallons per acre of Dormex per application and make only one application per crop cycle. Do not tank mix with other materials except as listed on this label. If applied less than 30 days (35 to 40 days for apples) prior to natural budbreak,

yield may be reduced. Use the minimum spray volume to achieve adequate wetting of all buds. Do not use concentrate spray.

Do not apply Dormex by aerial application.

PRECAUTIONS AGAINST USE OF DORMEX AS A BLOSSOM THINNER

Dormex is not to be used as a blossom thinner under any conditions because the outcome is unpredictable.

FROST OCCURRENCE PRECAUTION

For earlier than normal budbreak, make the application sooner than 30 days prior to normal budbreak. In determining whether or not to apply Dormex to promote earlier than normal budbreak, the user should be aware that growing buds and shoots are susceptible to frost and may be killed or damaged by freezing temperatures. Following application, some yellowing on the first leaves may appear but the developing growth will be normal.

DORMANCY REQUIREMENTS

To promote the maximum effectiveness of Dormex and to avoid phytotoxicity (i.e., new wood dieback, blossom thinning), deciduous crops must be completely dormant. Dormex is not a substitute for a lack of dormancy. Care should be taken to monitor dormancy. This is most easily accomplished by monitoring chill hour accumulation. USER NOTE: negative chill hour accumulation, climatologically induced incomplete dormancy must be considered, both to promote the effectiveness of Dormex at the recommended rates of application and to avoid phytotoxicity.

ENVIRONMENTAL AND DISEASE STRESS

Plants grown in heavy soils, or in other soils affected by poor drainage, or soil borne diseases, such as phytophthora root rot may die back as a result of treatment with Dormex. This is due to increased uniform budbreak and the inability of the plant to sustain growth. Plants usually appear healthy and begin to grow normally, then collapse. Plants designated for treatment with Dormex need a healthy, viable root system.

SPRAY EQUIPMENT CALIBRATION

When calibrating spray equipment, especially speed sprayers, it is critical that equipment be calibrated for the row spacing to be treated. Double spraying and excessive drift through the orchard will result in phytotoxicity. Proper speed sprayer calibration and/or reduction of rate will provide a good result.

CROP RECOMMENDATIONS

GRAPES -

DESERT GRAPES -

For use in desert grown grapes in California Counties of Imperial, Riverside and San Bernardino.

To promote uniform budbreak apply Dormex as a 4% (v/v) solution in water using up to 0.5% (v/v) of the nonionic surfactants, Latron B1956 or Agridex prior to budbreak after all pruning activities are completed, including tying of canes. Use a coarse droplet spray with nozzle pressure not to exceed 40 psi. Use a minimum number of spray nozzles to achieve adequate wetting. Three to four nozzles are usually sufficient. Do not exceed 100 gallons of spray per acre and do not use more than 4 gallons Dormex per acre. Make only one application per crop cycle. Do not tank mix with other materials except as listed above. If applied less than four weeks prior to natural budbreak, yield may be reduced.

For earlier than normal budbreak, make the application earlier than 4 weeks prior to normal budbreak but not later than January 31 and not before December 1.

Some yellowing on the first leaves may appear but the developing growth will be normal. In determining to apply Dormex to promote earlier than normal budbreak, the user should be aware that growing buds and shoots are susceptible to frost and may be killed or damaged by freezing temperatures.

To avoid possible exposure to the endangered Coachella Valley fringe-toed lizard in the vineyards located within boundaries of the Coachella Valley Preserve, applications may not be made within 50 feet of the boundary of the Coachella Valley Preserve.

NON-DESERT GRAPES - For use in California Counties, of Kern, Tulare, Fresno and Madera

To promote uniform budbreak, apply Dormex as a 4% (v/v) solution in water using up to 0.5% (v/v) of one of the nonionic surfactants, Latron B1956 or Agridex prior to budbreak after all pruning activities are completed, including tying of canes. Use a coarse droplet spray with nozzle pressure not to exceed 40 psi, and a minimum number of spray nozzles to achieve adequate wetting. Three to four nozzles are usually sufficient. Do not exceed 100 gallons of total spray per acre and do not use more than 4 gallons Dormex per acre. Make only one application per crop cycle. Do not tank mix with other materials except as listed above. If applied less than 4 weeks prior to natural budbreak, yield may be reduced.

For earlier than normal budbreak, make the application earlier than 4 weeks prior to normal budbreak but not later than February 28 and not before January 1.

Some yellowing on the first leaves may appear but the developing growth will be normal. In determining to apply Dormex to promote earlier than normal budbreak, the user should be aware that growing buds and shoots are susceptible to frost and may be killed or damaged by freezing temperatures.

In areas where chill hour accumulation is marginal, Dormex should be applied as late as possible to permit maximum chill hour accumulation, but not later than 25 days before budbreak. Dormex will be most effective using the 4% (v/v) spray solution after the vines have accumulated a minimum of 50 hours of chilling.

Low vigor and low capacity vines should not have Dormex applied any earlier than 30 days prior to anticipated normal budbreak. Vines treated too soon risk reduced yield if conditions affecting growth following application are not favorable for a sustained period.

KIWIFRUIT (California only) - To promote more uniform natural budbreak or earlier budbreak, particularly in areas of marginal chilling, to reduce the period of fruit susceptibility to disease, and to promote more uniform harvest, apply a 4% spray, making only one application per crop cycle, in not to exceed 100 gallons per acre. This application will also reduce the canes' susceptibility to apical dominance, therefore increasing bud fruitfulness. Do not tank mix with other materials except up to 0.5% (v/v) of the non-ionic surfactants Latron B1956 or Agridex. If applied less than four weeks prior to natural budbreak, yield may be reduced.

For earlier than normal budbreak, make the application earlier than four weeks prior to normal budbreak.

To limit drift, use a coarse droplet nozzle, nozzle pressure must not exceed 40 psi, and spray to wet. Do not exceed 4 gallons per acre of Dormex per applications.

Some yellowing on the first leaves may appear but the developing growth will be normal. In determining to apply Dormex to promote earlier than normal budbreak the user should be aware that growing buds and shoots are susceptible to frost and may be killed or damaged by freezing temperatures.

CONDITIONS OF SALE:

1. SKW warrants that this product consists of the ingredients specified and is reasonably fit for the purpose stated on this label when used in accordance with the directions under normal conditions of use. No one other than an officer of SKW is authorized (and such authorization must be in writing) to make any other warranty, guarantee or direction concerning this product.

2. Because the time, place, rate of application, weather conditions and normal or abnormal conditions of use or storage are beyond SKW's control, SKW's liability is limited to replacement of product or refund of purchase price. In no event shall SKW be liable for indirect or consequential damages.

Agridex is a trademark of Helena Chemical Company.
Latron B1956 is a trademark of Rohm & Haas Company.

lablsc3.amd/4043.1

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

SEP 22 1998

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

54555-2