PM22 612-8 7/6-7/19/94

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

APR 25 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

LYNN P. GEORGES
UNOCAL CORPORATION
3960 INDUSTRIAL BLVD 600B
WEST SACRAMENTO, CA 95691

Subject: Label Amendment Submission of 12/27/93 Response to PR Notice 93-7
EPA Reg. No. 612-8
PROPEL PLANT GROWTH REGULATOR

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
AND
- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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Lynn P. Georges
UNOCAL CORPORATION

Comments for: EPA REG. NO. 612-8
PROPEL PLANT GROWTH REGULATOR

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

The chemical resistant protective suit or your proposed label should be changed to "coveralls worn over long-sleeved shirt and long pants". If you decide to retain the chemical-resistant suit, you will have to include label requirements for a heat stress management program. Add chemical resistant apron for mixing loading and cleaning equipment if chemical resistant protective suit is deleted.

Correct the typographical errors circled on your proposed label.

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PROPEL

PLANT GROWTH REGULATOR

Active Ingredient:	
2-hydroxypropanoic acid *	80.0%
Inert Ingredients	21.0%
TOTAL	100.0%

* Contains 8 lbs. of active ingredient per gallon

EPA Reg. No. 612-8
EPA Est. No. 48498-CA-01 and 1202-WA-2

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

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

SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON THE NEXT PAGE

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of water. Call a physician.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF SWALLOWED: Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

CONDITIONS OF SALE

1. Unocal warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated when used in accordance with the use directions under normal conditions. Unocal neither makes, nor authorizes any agent or representative to make, any other warranty of fitness or of merchantability, guarantee or representation, express or implied, concerning this material.

2. Critical and unforeseeable factors beyond Unocal's control prevent it from eliminating all risks in connection with the use of this material. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for uses stated herein and even though label directions are followed. Buyer and user acknowledges and assumes all risks and liability resulting from the handling, storage, and use of this material (except those assumed by Unocal in (1) above). Unocal shall not be liable for incidental or consequential damages.

Patent Pending

Manufactured for

UNOCAL 76

Unocal Petroleum Products & Chemicals Division
Union Oil Company of California dba Unocal
P.O. Box 2390 • Brea, CA 92622-2390 • (800) 825-0076

Net Contents: _____ Gallons

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE. Causes irreversible eye damage. Causes skin burns. Harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not use the mouth to siphon from containers or blow clogged lines. Avoid breathing vapors or spray mist. Use with adequate ventilation. Keep container closed.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and other handlers must wear:

- Chemical-resistant protective suit
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instruction for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENTS: When handlers use closed systems, enclosed cabs, or aircraft 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.

Do not work in enclosed area or clean up large spills without NIOSH-approved respiratory protection.

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 outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: Do not apply to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from areas treated. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment wash waters. Do not apply in any manner not specified on the label.

CHEMIGATION

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

STORAGE AND DISPOSAL

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

STORAGE: Do not store at temperatures above 140°F. Do not store mixed material.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved 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 in this labeling 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 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
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure.

GENERAL USE INSTRUCTIONS

Before using this material, read conditions of sale.

ALMONDS

To increase nut set, apply two pints per acre immediately following bloom (early nut set) using sufficient spray volume for complete coverage (usually 100 to 300 gallons per acre).

APPLES

To promote fruit set and increase solids, apply 2 to 4 pints per acre during full king bloom. To enhance the rate of ripening, apply 1 to 2 pints per acre 30 to 45 days prior to normal harvest date. Apply higher labeled rate where optimum growing conditions and maximum growth is taking place. If a wetting agent is used, its use rate shall not exceed four ounces per 100 gallons of spray volume on maturing fruit. Use sufficient spray volume for complete coverage of the trees (usually 200 to 300 gallons per acre).

BEANS (Green and Dry)

To increase pod set, apply 1 to 2 pints per acre at full bloom using sufficient spray volume for complete coverage (usually 20 to 60 gallons per acre by ground or 10 gallons per acre by air).

BROCCOLI, CABBAGE, CAULIFLOWER

To increase yield and hasten maturity, apply 1 to 2 pints per acre one to three weeks after thinning or transplanting. Apply higher labeled rate where optimum growing conditions and maximum growth is taking place. Use sufficient spray volume for complete coverage (usually 30 to 60 gallons per acre by ground or 10 gallons per acre by air).

CHERRIES

To hasten ripening, and increase fruit sugar and average fruit weight, apply 1 pint per acre at jacket split or three to four weeks prior to the anticipated harvest date using sufficient spray volume for complete coverage (usually 200 to 300 gallons per acre).

CITRUS

To increase fruit set, apply 2 to 4 pints per acre at petal fall, or shortly thereafter, no less than thirty days before natural thinning, using sufficient spray volume for complete coverage (usually 300 to 400 gallons per acre by ground or 20 gallons per acre by air). Apply higher labeled rate where optimum growing conditions and maximum growth is taking place.

CORN (Sweet and Field)

To increase yield, apply 8 ounces per acre at the 2 to 4-leaf stage, using sufficient spray volume for complete coverage (usually 20 to 30 gallons per acre by ground or 10 gallons per acre by air). A high quality, agriculturally-approved, nonionic surfactant should be included at a rate of 2 pints per 100 gallons of spray solution.

COTTON

To increase set (decrease square drop), apply 1 pint per acre to cotton at first bloom or 40 to 65 days after cotton emergence, using sufficient spray volume for complete coverage (usually 20 to 50 gallons per acre by ground or 5 gallons per acre by air). A high quality, agriculturally-approved, nonionic surfactant should be included at a rate of 2 pints per 100 gallons of spray solution.

GRAPES

To increase berry weight, apply 2 pints per acre three to fourteen days post-shatter. To hasten maturity and increase fruit sugars, apply 1 to 2 pints per acre at the onset of ripening (veraison). Apply higher labeled rate where optimum growing conditions and maximum growth is taking place. Use sufficient spray volume for complete coverage (usually 50 to 150 gallons per acre).

LETTUCE

To increase vegetative plant growth (yield), apply 1 to 2 pints per acre one to three weeks after thinning or transplanting, or 1 to 3 weeks prior to harvest, using sufficient spray volume for complete coverage (usually 20 to 60 gallons per acre by ground or 10 gallons per acre by air).

PEANUTS

To increase yield, apply 8 ounces per acre to runner-type or Virginia-type peanuts when plants are in full bloom. This will generally be 40 to 50 days after peanut plants emerge (approximately 50 to 60 days after planting). Apply sufficient spray volume for complete coverage (usually 20 to 50 gallons per acre by ground or 5 gallons per acre by air). A high quality, agriculturally-approved, nonionic surfactant should be used at a rate of 2 pints per 100 gallons of spray solution.

PEPPERS (Green and Chile)

To increase set, apply 1 to 2 pints per acre at full bloom using sufficient spray volume for complete coverage (usually 20 to 60 gallons per acre by ground or 10 gallons per acre by air).

PINEAPPLE

To induce more rapid growth and root initiation, use in a planting material dip at a rate of 1000 to 2000 ppm solution (one gallon in 600 to 1200 gallons of water) to crowns and/or slips. Follow 30 days later by foliar application at 2 pints per acre using sufficient spray volume for complete plant coverage (usually 60 to 125 gallons per acre). To increase the level and rate of sugar formation, apply 2 pints per acre 30 to 45 days prior to scheduled harvest using sufficient spray volume for complete coverage (usually 60 to 125 gallons per acre).

POTATOES

To increase yield and quality, apply one pint per acre, when the plants reach 15 to 20 inches in diameter (when the tubers are less than ¾ inches in size). Use sufficient spray volume to ensure adequate coverage, which is 15 to 25 gallons per acre by ground equipment, and 10 gallons per acre by air application. Use a high quality, agriculturally approved, non-ionic surfactant at a rate of 1 to 2 quarts per 100 gallons of spray solution (0.25 to 0.50% by volume). Tank mixes of PROPEL and products other than surfactants are not recommended.

PRUNES

To hasten ripening and increase solids, apply 2 pints per acre immediately following bloom using sufficient spray volume for complete coverage of the trees (usually 200 to 300 gallons per acre by ground or 10 gallons per acre by air).

STRAWBERRIES

To increase the number of runners, apply 1 to 2 pints per acre thirty days after transplanting. Apply 2 pints per acre at mid-bloom to increase set and compress fruit maturity. Use sufficient spray volume for complete coverage (usually 30 to 60 gallons per acre by ground or 10 gallons per acre by air).

SUGARCANE

To increase shoot initiation, rooting, and rate of growth, dip seed piece in 1000 to 2000 ppm solution (one gallon in 600 to 1200 gallons of water). Follow in thirty days with foliar application at 2 pints per acre using sufficient spray volume for complete coverage (usually 30 to 60 gallons per acre by ground or 10 gallons per acre by air). To maintain stalk growth (internode length) during winter, apply 2 pints per acre from mid-October through mid-November using sufficient spray volume for complete coverage. **For seed cane**: apply 2 pints per acre 30 to 90 days after transplanting or emergence using sufficient volume for complete coverage (usually 20 to 60 gallons per acre by ground or 10 gallons per acre by air).

TOMATOES (Cannery Varieties)

To increase fruit set and/or promote earlier maturity (more red fruit) and enhance average fruit weight and soluble solids, apply 2 pints per acre at full bloom (maximum flowering). To enhance the crop maturation rate, apply 2 pints per acre fifteen days prior to the anticipated harvest date. PROPEL should be applied using sufficient spray volume for complete coverage (usually 30 to 60 gallons per acre by ground or 10 gallons per acre by air) at both timings.

TOMATOES (Fresh market)

To increase fruit set, apply 1 to 2 pints per acre between first and second open bloom (first and second cluster). To enhance ripening and crop maturation, apply 1 to 2 pints per acre 15 days prior to the anticipated harvest date. PROPEL should be applied using sufficient spray volume for complete coverage (usually 30 to 60 gallons per acre by ground or 10 gallons per acre by air) at both timings.

TOMATOES (Transplant)

To improve transplant vigor, PROPEL may either be mixed with starter (transplant) solution or setting water at 1 pint per 100 gallons, or may be sprayed on transplants at 1 pint per acre immediately after planting. PROPEL should be applied using sufficient volume for complete coverage (usually 30 to 60 gallons per acre by ground or 10 gallons per acre by air).

WALNUTS

To increase nut set, apply 2 pints per acre immediately after bloom using sufficient spray volume for complete coverage (usually 100 to 300 gallons per acre).