

PM 23

64864-31

8-18-98

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AUG 18 1998

Karen M. Nold
 Pace International LP
 500 7th Avenue South
 Kirkland, WA 98033

Dear Ms. Nold:

SUBJECT: Label Amendment
 Leffingwell HIVOL-44
 EPA Registration No. 64864-31
 Your Application Dated May 6, 1998 Requesting to Amend
 the Brand Name and Amending Label Text

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

1. It is noted that the "Precautionary Statements" have been relocated to another area of the labeling. This is acceptable, however on the front panel it must be indicated where the additional statements are located (i.e., "See side/back panel for additional precautionary statements").

It is also noted that the "User Safety Recommendations" should be placed inside a separate labeling box.

2. Under the "Statement of Practical Treatment" in the inhalation statement, delete the phrase, "if abnormal reaction occurs", and replace with the word "immediately".

3. As noted in our conversation of August 14, 1998, the label format has been revised and some of the WPS language is located incorrectly on the proposed labeling. As illustration, the "Agricultural Requirements Box" should directly follow the "Directions for Use" section.

The "Directions for Use" is on page 2 and the Agricultural Use Requirements" section is on page 4. According to WPS guidelines the "Agricultural Requirements Box" should be located directly after the "Directions for Use". As discussed, I am forwarding a copy of the WPS approved labeling (dated March 30, 1994) for your reference and records.

CONCURRENCES

SYMBOL ▶	7505C						
SURNAME ▶	DMorgan						
DATE ▶	Aug 18, 1998						

2017

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A stamped copy ("Approved with Comments") is enclosed for your records. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosures

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Label Text for EPA Reg. No. 64864-31

LEFFINGWELL HIVOL-44

Plant Growth Regulator
Do Not Use As A Herbicide

ACTIVE INGREDIENT:

Isopropyl Ester of 2,4-Dichlorophenoxyacetic Acid*	44%
INERT INGREDIENTS:**	56%
Total:	100%

*Equivalent to: 2,4-Dichlorophenoxyacetic Acid.....37%

**Contains Petroleum Distillate

FOR USE ONLY IN CALIFORNIA AND ARIZONA

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUCION AL USARIO: SI USTED NO LEE INGLES, NO USE ESTE PRODUCTO HASTA QUE LE ETIQUETA HAYA SIDO EXPLICADO AMPLIAMENTE.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. See a physician immediately.

IF INHALED: Remove to fresh air. Administer artificial respiration, if necessary.

Contact physician if abnormal reaction occurs.

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

IF IN EYES: Immediately flush eyes with plenty of water. See a physician.

EPA REG. NO. 64864-31

EPA EST. NO. 64864-WA-1

Net Contents:

Net Weight:

ACCEPTED
with COMMENTS
In EPA Letter Dated

AUG 18 1998

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

64864-31

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Label Text for EPA Reg. No. 64864-31

DIRECTIONS FOR USE:

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

TO BE USED AS A PLANT GROWTH REGULATOR ON CITRUS.

DO NOT USE ON CITRUS TREES YOUNGER THAN SIX YEARS.

DO NOT APPLY WITHIN 7 DAYS OF HARVEST.

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

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.

PRE-HARVEST FRUIT DROP CONTROL: Add the recommended quantity of LEFFINGWELL Hivol-44 to spray tank and spray to give adequate coverage. See charts below for spray solution volume per acre. A minimum of 100 gallons water per acre is recommended for mature trees.

PRE-HARVEST FRUIT DROP CONTROL : SPRAY SOLUTIONS OF 500 GALLONS PER ACRE OR LESS				
Variety/Species	Time	gram acid equivalent/a (gae/a)	Application Rates of LEFFINGWELL Hivol-44 Per Acre	
			ml/acre	oz./acre
Navel Orange	Sept.-Nov.*	30	75	2.5
	Sept.-Nov (in hydrated lime)	45	112	3.75
	Dec.-Jan.**	15	37.5	1.25
Valencia Orange	Young fruit at least 1/2" dia.	15	37.5	1.25
Grapefruit (Summer Drop)	Young fruit at least 3/4" dia.	30	75	2.5
Grapefruit (Winter Drop)	Sept.- Jan.**	30	75	2.5
	Sept. - Jan.** (in hydrated lime)	45	112	3.75
Lemon***	Oct.-Dec.	15	37.5	1.25
Tangelo, Minneola	Sept.-Nov.	30	75	2.5

PRE-HARVEST FRUIT DROP CONTROL : SPRAY SOLUTIONS ABOVE 500 GALLONS PER ACRE						
Variety/Species	Time	ppm	Amount of LEFFINGWELL Hivol-44 Per 100 Gallons			
			ml	Maximum rate per acre (ml)****	fl. oz.	Maximum rate per acre (fl.oz)****
Navel Orange	Sept.-Nov.*	16	15.2	(122)	0.51	(4.1)
	Sept.-Nov (in hydrated lime)	24	22.8	(182)	0.77	(6.2)
	Dec.-Jan.**	8	7.6	(61)	0.25	(2.1)
Valencia Orange	Young fruit at least 1/2" dia.	8	7.6	(61)	0.25	(2.1)
Grapefruit (Summer Drop)	Young fruit at least 3/4" dia.	16	15.2	(122)	0.51	(4.1)
Grapefruit (Winter Drop)	Sept.- Jan.**	16	15.2	(122)	0.51	(4.1)
	Sept. - Jan.** (in hydrated lime)	24	22.8	(182)	0.77	(6.2)
Lemon***	Oct.-Dec.	8	7.6	(61)	0.25	(2.1)
Tangelo, Minneola	Sept.-Nov.	16	15.2	(122)	0.51	(4.1)

* Sept./Oct. May be too early to provide good control when conditions favor fruit drop (i.e. warm winter, protracted harvest). A second application in Nov./Dec. may be needed. Consult your local LEFFINGWELL Hivol-44 dealer, local farm advisor, or Pace International LP representative.

** January sprays may be somewhat risky, especially when environmental factors favor and earlier-than-usual Spring flush of growth. Consult your local LEFFINGWELL Hivol-44 dealer, local farm advisor, or Pace International LP representative.

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Label Text for EPA Reg. No. 64864-31

*** Applications to coastal lemons are risky because of their everbearing nature. Before use, consult with your local LEFFINGWELL Hivol-44 dealer, local farm advisor, or Pace International LP representative.

**** Maximum amount of Leffingwell Hivol-44 recommended per acre, regardless of water volume used.

AIR APPLICATION AND CONCENTRATE SPRAYS:

September through January. Apply in a minimum of 20 gallons of water per acre. Do not exceed a concentration of 200 ppm (38 ml. or 1.28 fl. oz. in 20 to 200 gallons of water). Do not apply within 7 days of harvest. Air and concentrate sprays may not provide adequate coverage.

PREVENTION OF LEAF AND FRUIT DROP CAUSED BY A PESTICIDE OIL SPRAY:

For use in pesticide oil sprays to counteract leaf drop and fruit drop caused by the oil. Add 2.2 ml (0.07 fl. oz.) to 3.8 ml (0.12 fl. oz.) per gallon of oil. Apply thorough coverage.

The addition of LEFFINGWELL Hivol-44 to the pesticide oil spray provides some degree of preharvest fruit drop control. But, because of the long time span between most pesticide oil sprays and the onset of mature fruit drop, the LEFFINGWELL Hivol-44 + oil spray mixture may not give adequate mature fruit drop control, especially if the per acre LEFFINGWELL Hivol-44 dosage is less than 24 grams acid equivalent (gae/acre) or 60 ml/acre (2.02 fl. oz./acre) LEFFINGWELL Hivol-44.

Under these conditions, an aqueous LEFFINGWELL Hivol-44 preharvest spray may be needed. If needed, follow the guidelines in the chart below.

ADDITIONAL PREHARVEST LEFFINGWELL HIVOL-44 SPRAY REQUIREMENTS (in addition to LEFFINGWELL Hivol-44 + oil spray)	
Time from LEFFINGWELL Hivol-44 + oil spray application to mature fruit drop period	Additional preharvest LEFFINGWELL Hivol-44 application*
more than 6 months	Apply full rate recommended for preharvest fruit drop control.
4 to 6 months	Apply 50% of recommended rate for preharvest fruit drop control.
3 to 4 months	If per acre dosage (in oil spray) was less than 60 ml/acre (2.02 fl. oz./acre), apply 25% of recommended rate for preharvest fruit drop control.
3 to 4 months	If per acre dosage (in oil spray) was at least 60 ml/acre (2.02 fl. oz./acre), NO additional product should be applied.

* Apply to trees 6 years and older. Do not apply within 7 days of harvest.

INCREASING FRUIT SIZE: Apply outside coverage.

INCREASING FRUIT SIZE				
Variety	Application Time When Fruit Diameter is	Gram Acid Equivalent (gae)	Rate - Water Spray	
			oz./acre	ml./acre
Valencia and Navel Orange*	3/16" - 1/4" (5-6mm)	23	2.0	58
	1/4" - 1/2" (6-13mm)	30	2.5	75
	1/2" - 5/8" (13-16mm)	38	3.2	94
	5/8" - 3/4" (16-19mm)	45	3.8	112
Grapefruit**	When Fruit Diameter is			
	1/4" - 3/8" (6-9mm)	23	2.0	58
	3/8" - 5/8" (9-16mm)	30	2.5	75
	5/8" - 3/4" (16-19mm)	38	3.2	94
	3/4" - 1" (19-25mm)	45	3.8	112

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* Fruit-sizing sprays require excellent coverage. May cause an increased roughness of the rind. For Valenica Oranges, also controls mature fruit drop and may slightly delay granulation in new crops. For Navel Oranges, may decrease fruit splitting.

** Fruit-sizing sprays require excellent coverage. Also controls mature fruit drop.

PACKING HOUSE USE TO MAINTAIN HEALTHY BUTTONS ON LEMONS: Use a concentration of 500 ppm (45ml or 1 5/8 fl. oz. in 10 gal. of water). May be added to wax emulsion on lemons waxed prior to storage. Otherwise use a special treatment (flush or spray) following the final fresh water rinse of the fruit. Do not use with Nitrogen Trichloride (Decco). Do not use on fruit for short-term storage.

AGRICULTURAL USE DIRECTIONS

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 12 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:

Long sleeve shirt and long pants; chemical-resistant gloves such as barrier laminate or nitrile rubber, or neoprene rubber, or viton; shoes plus socks; and protective eyewear.

A Copy Of This Labeling Must Be In The Possession Of The User At The Time Of Application.

Attention: Do not use equipment used in spraying LEFFINGWELL Hivol-44 to spray 2,4-D sensitive plants. Use caution in disposing of solutions as they can kill or cause extreme injury to sensitive plants. Dispose of residues in a manner to avoid contamination of underground water supplies.

CAUTION

Avoid spray drift to susceptible plants as this product may injure cotton, bean, peas, alfalfa, ornamentals, etc. (Coarse sprays are less likely to drift.) Thoroughly clean spray equipment, using hot soap suds followed by soaking and washing with ammonia or baking soda before using for other purposes. Do not store near fertilizers, seeds, insecticides or fungicides. Vapors from this product may injure susceptible plants in the immediate vicinity. Protect from freezing.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Avoid inhaling fumes or spray. Avoid contact with skin, eyes, or clothing.

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category E on an EPA chemical resistance category selection chart.

Applicators and Other Handlers Must Wear:

A long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, or nitrile rubber, or neoprene rubber, or viton; shoes plus socks; protective eyewear; and chemical-resistant apron when mixing or loading.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

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.

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ENGINEERING CONTROLS STATEMENT:

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

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Drift or runoff may adversely affect nontarget plants. 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. Do not contaminate water when disposing of equipment washwaters. Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination. Vapors from this product may injure susceptible plants in the immediate vicinity. Avoid spray drift. This product may injure cotton, beans, peas, grapes, ornamentals, etc. (Coarse sprays are less likely to drift).

STORAGE AND DISPOSAL

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

STORAGE: Do not store near food, feed, fertilizers, seeds, insecticides or fungicides. Store in the original container in a secure, dry and temperate area. Keep container closed when not in use. Do not store or use around the home. Do not store 30-gallon drums over two high. In case of spill or leak, soak up with sand, earth or synthetic absorbent (do not use alkaline absorbents) and dispose of wastes in compliance with local, State and Federal Regulations. Avoid contact with water.

This product may crystallize if stored at cold temperatures. If crystallization occurs, call Pace International LP for instructions before using.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate, is a violation of Federal Law and may contaminate groundwater. 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: Plastic Containers: 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. **Metal Containers:** Triple rinse (or equivalent). Then offer for recycling reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

NOTICE TO BUYER- Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond control of the manufacturer, no guarantee expressed or implied, is made as to the effects of such use or the results to be obtained if not used in accordance with printed directions and established safe practice and application of this product. Buyer must assume all risks of improper storage and application of this product or its improper use in combination with other materials. These risks include, but are not limited to, damage of the fruit or vegetable to which applied, the crop's physical appearance, and/or personal injury. Buyer accepts the product on these conditions. Anyone not accepting these conditions must return the product in its unopened container within 5 days following the receipt of the product. Seller will then promptly refund the purchase price.

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