



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg.  
Number:  
67223-3

Date of Issuance:  
APR 16 1996

NOTICE OF PESTICIDE:  
  x   Registration  
      Reregistration

Term of Issuance:  
Conditional

Name of Pesticide Product:  
ALPHASET IPE

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Termilind Limited  
15010 S.E. McLoughlin, Suite 2  
Milwaukie, OR 97267

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label changes before you release the product for shipment:
  - a. Revise the EPA Registration Number to read, "EPA Reg. No. 67223-3".
  - b. Add a footnote to the Ingredients statement to read "Contains Petroleum Distillates".
  - c. Delete the phrase "...if irritation persists" from the end of the dermal statement in the Statement of Practical Treatment.
  - d. Rewrite the inhalation statement in the Statement of Practical Treatment to read "IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention."

Signature of Approving Official:

Date:

APR 16 1996

- e. Revise the statement reading "Harmful if swallowed" appearing in the Precautionary Statements to read "Harmful if swallowed, inhaled or absorbed through skin."
- f. Add a requirement for a chemical-resistant apron when mixing and loading to the list of personal protective equipment.
- g. The container disposal statement should be revised. We note that this product will be packaged in both plastic and metal containers. Therefore, the following container disposal statements should appear on the labeling for the appropriate container type:

FOR METAL CONTAINERS: "Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities."

FOR 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."

- h. We note that the requirement of the 7-day pre-harvest interval (PHI) appears only within the directions for Pre-Harvest Fruit Drop Control and may imply that this PHI is only required for that use. Since it is also required for the uses of aerial application on oranges and following the application of pesticide oil sprays, the 7-day PHI should either be reiterated in both of these sections or be relocated to a position where it applies to all of these uses.

3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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

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

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

Enclosure

1546-14B/1242-3

		CONCURRENCES						
SYMBOL ▶	7505C							
BRANCH ▶	J. K. W. Y.							
DATE ▶	4/15/96							

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
APR 16 1996

# ALPHASET IPE

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

48% ISOPROPYL ESTER  
3.4 LBS. 2,4-D ACID EQUIVALENT PER GALLON

ACTIVE INGREDIENT:

Isopropyl Ester of 2,4-Dichlorophenoxyacetic Acid*	48.2%
INERT INGREDIENTS:	51.8%
TOTAL	100.0%

\* Equivalent to 40.5% or 3.4 lbs of 2,4-Dichlorophenoxyacetic Acid per gallon

The State of California Department of Agriculture classifies this Ester of 2,4-D as "Highly Volatile" and therefore does not permit its use as an herbicide in California.

EPA Registration No. 67223-

EPA Est. No 67223-

KEEP OUT OF REACH OF CHILDREN

CAUTION CAUCION

Si usted no entiende la etiqueta, busque a alguien 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.)

## STATEMENT OF PRACTICAL TREATMENT

- IF IN EYES: Immediately flush eyes with plenty of clean water. See a physician.
- IF ON SKIN: Wash thoroughly with soap and water. Get medical attention if irritation persists.
- IF INHALED: Remove to fresh air. Administer artificial respiration, if necessary. Contact physician if abnormal reaction occurs.
- IF SWALLOWED: Product contains petroleum distillates. Do Not induce vomiting. Contact a physician or go to the nearest medical facility taking product container or label with you. Never give anything by mouth to an unconscious person.

Note to Physician: May cause chemical pneumonitis if aspirated. If lavage is performed, suggest endotracheal and/or esophagoscopic control.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

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

#### 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:

- 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.

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. After each day of use, clothing or PPE must not be reused until it has been cleaned.

Engineering Control 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 155.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### 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.

## ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and non-target plants. 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 washwaters.

Mixing and Loading: 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.

## CHEMICAL AND PHYSICAL HAZARDS

Do not use, pour, spill or store near heat or open flame

## 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.

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 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:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or Viton
- Shoes plus socks
- Protective eyewear.

### 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. In the event of a spill transfer as much of product as possible to new or sound container. Soak up remainder of spill with sand, earth, clay granules, or other suitable adsorbent. Dispose of wastes according to local, State, and Federal regulations.

Do not store under freezing conditions. If product is subjected to temperatures below freezing, warm to at least 70 degrees F for 12 hours then agitate thoroughly prior to use.

**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:** Do not reuse container. Triple rinse (or equivalent) adding rinsate to spray tank. Puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### General Information

Alphaset II-E is to be used as a plant growth regulator on citrus for the control of pre-harvest fruit drop, and, for leaf drop and fruit drop following application of pesticide oil sprays. It may also be used as a packing house treatment to lemons to maintain healthy buttons during storage.

## APPLICATION DIRECTIONS

### Pre-Harvest Fruit Drop Control:

Use the recommended concentration (ppm) from the chart below. Apply to give thorough and uniform coverage. Make application just to the point of run off. Total volume of spray used could vary from 60 to 400 gallons per acre depending on density of the foliage. Do not apply to citrus trees younger than six (6) years. Do not apply within seven (7) days of harvest.

Variety/ Species	Location	Time	2,4-D ppm Water Spray	ml Alphaset per 100 gal	Fluid oz. Alphaset per 100 gal
Navel Oranges	Central, So. Cal.	Sept. - Nov.	16	15.2	0.51
	Central Cal.	Sept. - Nov.	24	22.8	0.77
	Central, So. Cal.	Dec. - Jan.	8	7.6	0.26
Valencia Oranges	So. Cal.	Young Fruit at least 3/4" dia.	8	7.6	0.26
Grapefruit Summer drop	Central, So. Cal.	Young Fruit at least 3/4" dia.	16	15.2	0.51
Grapefruit Winter Drop	Central Cal.	Sept. - Nov.	16	15.2	0.51
			24	22.8	0.77
Lemons	Inland So. Cal.	Nov. - Dec.	8	7.6	0.26

### AIR APPLICATION (ORANGES)

Make application from September through January. Apply product in a minimum of 20 gallons of water per acre. Do not exceed a concentration of 200 ppm (38 ml or 1.28 fluid ounces Alphaset in 20 gallons of water).

### Following the application of pesticide oil sprays:

For the prevention of leaf drop and fruit drop following the use of pesticide oil sprays to lemons, Navel oranges, Valencia oranges, and grapefruits, apply Alphaset at the recommended concentration from the table below. Apply the spray to achieve thorough and even coverage. Make application just to the point of run off. Total volume of spray used could vary from 60 to 400 gallons per acre depending on density of the foliage.

<b>Valencia and Navel Oranges</b>	<b>ppm 2,4-D Water Spray</b>	<b>ml Alphasat per 100 gals</b>	<b>Fluid Ounces Alphasat per 100 gals</b>
<b>When Fruit Diameter is</b>			
3/16 - 1/4 inch	12	11.4	0.38
1/4 - 1/2 inch	16	15.2	0.51
1/2 - 5/8 inch	20	19.0	0.64
5/8 - 3/4 inch	24	22.8	0.77
<b>Grapefruit</b>	<b>ppm 2,4-D Water Spray</b>	<b>ml Alphasat per 100 gals</b>	<b>Fluid Ounces Alphasat per 100 gals</b>
<b>When fruit Diameter is</b>			
1/4 - 3/8 inch	12	11.4	0.38
3/8 - 5/8 inch	16	15.2	0.51
5/8 - 3/4 inch	20	19.0	0.64
3/4 - 1 inch	24	22.8	0.77

**USE THE CHART BELOW TO DETERMINE THE AMOUNT OF ALPHASAT TO ADD TO YOUR SPRAY TANK**

**Add Volume of Alphasat Indicated for Desired Concentration**

<b>Tank size</b>	<b>for:</b>	<b>4 ppm</b>	<b>8 ppm</b>	<b>12 ppm</b>	<b>16 ppm</b>	<b>20 ppm</b>	<b>24 ppm</b>
400 gal		15 ml	31 ml	46 ml	61 ml	76 ml	91 ml
500 gal		19 ml	38 ml	57 ml	76 ml	95 ml	114 ml
600 gal		23 ml	46 ml	69 ml	91 ml	114 ml	137 ml

**For Packing House Use On Lemons:**

For packing house treatment of lemons to maintain healthy buttons during storage, use a concentration of 500 ppm (45 ml or 1 5/8 fluid ounces of Alphasat in each 10 gallons of water). Product may be added to the wax emulsion used to wax lemons prior to storage. Otherwise, use a treatment such as flush or spray following the final fresh water rinse of the fruit. Do not use with nitrogen trichloride (Decco) as discoloration of the fruit may occur. Do not use on fruit intended for short term storage.



**IMPORTANT: PLEASE READ BEFORE USE**  
By using this product, the user accepts the following: **LIMITED WARRANTY:**

TERMILIND LIMITED (TERMILIND) warrants that (a) this product conforms to the chemical description on its label; (b) this product is reasonably fit for the purposes stated on its label, subject to the inherent risks referred to herein, when used in accordance with its directions; and (c) that the directions, warnings, cautions, and other statements on this label are based upon responsible experts evaluations of reasonable tests of effectiveness, or toxicity to laboratory animals and plants, or residues on food crops and upon reports of field experience. Testing has not been performed on all varieties of food crops, and plants in all states, or under all application, weather and crop conditions. There are no express warranties other than those set forth herein. TERMILIND neither makes nor intends, nor does it authorize any agent or representative to make any other warranty, express or implied. TERMILIND expressly excludes and disclaims all implied warranties of merchantability, fitness for particular purpose, or any other warranty of quality or performance. This warranty does not extend to, and the user shall be solely responsible for, any loss or damage which results from the use of this product in any manner which is inconsistent with this label's directions, warnings or cautions. User's exclusive remedy and TERMILIND or seller's exclusive liability for any claim, loss, damage, or injury resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort, or otherwise, shall be limited, at TERMILIND'S option, to replacement, or repayment of the purchase price for the quantity of product with respect to which damages are claimed. In no event shall TERMILIND or Seller be liable for special, indirect, or consequential damages resulting from the use or handling of this product.

**FOR THE FOLLOWING EMERGENCIES PHONE 24 HOURS A DAY**  
**TRANSPORTATION: CHEMTREC ----- -1-800-424-9300**

Net Contents: 1 Gallon

Termilind Limited  
15010 S.E. McLoughlin, Suite 2  
Milwaukie, OR 97267