

63588-9

04/26/2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

63588-9

Date of Issuance:

APR 26 2000

Term of Issuance:

Conditional

Name of Pesticide Product:

Baseline Plant
Regulator

NOTICE OF PESTICIDE:

X Registration
____ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

K-I Chemical U.S.A., Inc.
11 Martine Ave., 9th Floor
White Plains, NY 10606

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 the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, Section 3(c)(7)(C) provided that you:

1. Submit the data listed below, conducted in accordance with the Good Laboratory Practices Standards, 40 CFR Part 160 and appropriate test guidelines as referenced in EPA's Data Requirements for Registration regulations, 40 CFR Part 158: A) storage stability data for a seven month period (frozen) on the processed commodities of peanuts, Guideline OPPTS 860.1380, by April 30, 2001 and B) 21-day dermal toxicity study in rabbits, Guideline OPPTS 870.3200, by October 31, 2000. Although not required, the Agency would recommend repeating the column leaching studies for a more comprehensive transport assessment of the parent compound and its degradates.
2. Make the following label revision: change the EPA File Symbol to EPA Registration Number 63588-9.
3. This registration is also conditioned upon Agency validation of the analytical enforcement method for plants.
4. Submit production information (pounds or gallons produced) for this product for the fiscal year in which the use on peanuts is conditionally registered, in accordance with FIFRA Section 29. The fiscal year begins October 1, and ends September 30 of the following year.

Signature of Approving Official:

Date:

APR 26 2000

EPA Form 8570-6

CONCURRENCES

SYMBOL	7505C						
SURNAME	Edwards						
DATE	4/26/00						

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The production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year. This information must be submitted to:

U.S. Environmental Protection Agency
Registration Division (7505C)
Registration Support Branch
Ariel Rios Building
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

5. Submit two copies of the revised final printed labeling before you release the product for shipping.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 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.

ACCEPTED
with COMMENTS
In EPA Letter Dated

APR 26 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
63588-9

BaselineTM

plant regulator

For use on peanuts

Active Ingredient:

Prohexadione calcium [calcium 3-oxido-5-oxo-4-propionylcyclohex-3-enecarboxylate].....75.0%

Other Ingredients:.....25.0%

Total100.0%

EPA Reg. No. 63588-EUP

KEEP OUT OF REACH OF CHILDREN
CAUTION

See inside booklet for complete **Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.**

Net Contents: 1.67 pounds (757.5 grams)

Precautionary Statements

Hazards to Humans and Domestic Animals

Caution. Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Hotline Number: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-832-HELP for emergency medical treatment information.

Personal Protective Equipment (PPE)

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Shoes plus socks

Follow the 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.

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.

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

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 wash waters or rinsate.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

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.

All applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

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 made of any waterproof material
- Shoes plus socks

Storage and Disposal

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

Pesticide Storage: Store in a cool, dry place. Do not remove the product from the container except for immediate use.

Pesticide Disposal: Pesticide wastes are toxic. Wastes resulting from this product may be disposed of at an approved waste disposal facility. Excess pesticide, spray mixture or rinsate must be handled and disposed of in accordance with federal, state or local procedures. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal:

- **Boxes:** Completely empty the box into the application equipment. Then dispose of the empty box in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not re-use the empty bags or container.

In Case of Emergency

In case of large-scale spillage regarding this product, call:

CHEMTREC 800-424-9300
BASF Corporation 800-832-HELP

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- BASF Corporation (800-832-HELP)

Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

I. General Information

Baseline (prohexadione calcium) is a plant regulator for controlling the vegetative growth of peanuts in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, New Mexico, North Carolina, Oklahoma, South Carolina, Texas, and Virginia.

Mode of Action

Baseline acts within a peanut plant to inhibit the biosynthesis of gibberellin. The result is a decrease in cell elongation and a reduction in vegetative growth. Under normal use patterns, **Baseline** will not affect the number of leaves, but will decrease the distance between leaves (internode length).

Spray Coverage

Because **Baseline** is absorbed by the peanut leaves, adequate spray coverage of the foliage is necessary for good uptake.

Cleaning Application Equipment

Clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product, particularly if a product with the potential to injure crops was used.

II. Application Instructions

Apply **Baseline** to actively growing peanut plants according to the rates recommended in **Table 2**. Make the first application of 0.167 pounds of product per acre at when 50% of the stems are touching in the row middle (row closure). Make a second application at 100% row closure, as needed. Under conditions that promote extremely Frank growth and prior to loss of visual peanut row pattern in the field, an optional third application may be applied to peanut plants. Do not make more than two (2) applications of **Baseline** in less than six (6) weeks. Plants that are under stress due to lack of moisture, disease pressure, or other stress conditions will show little response to **Baseline** application.

Broadcast Ground Application

Water Volume: Use a minimum of 20 gallons of spray solution per broadcast acre for optimal performance.

III. Additives

The uptake of **Baseline** into the peanut plant requires the presence of a nonphytotoxic nitrogen source in the spray solution. Failure to add a nitrogen source to the spray solution will result in unsatisfactory product performance.

Nitrogen Source

- **Urea ammonium nitrate (UAN):** Use one quart of UAN (commonly referred to as 28%, 30%, or 32% nitrogen solution) per acre.
- **Ammonium sulfate (AMS):** One pound of AMS per acre may be substituted for 1 quart of UAN per acre. Use high-quality AMS (spray grade) to avoid plugging of nozzles. Other sources of nitrogen are not as effective as those mentioned.

Oil Concentrate

Adding 1 quart of a nonphytotoxic oil concentrate (commonly referred to as crop oil concentrate or COC) per acre to the spray solution will promote consistent performance. Use COC when **Baseline** is applied without a tank mix partner. If **Baseline** is to be tank mixed with a fungicide, the adjuvant recommended on the fungicide label can be used instead of the COC.

Table 1. Additive Rates Per Acre

Additive	Ground Application
Nitrogen Source	1 quart UAN
Oil Concentrate	1 quart

Table 2. Application Rates

Application	Baseline Rate per acre	Additive Rate per Acre
First Application: Apply to peanuts when 50% of stems are touching in row middle (row closure).	0.167 pound	1 quart UAN
Second Application: Make a second application at 100% row closure, as needed.	0.084-0.167 pound	
Third Application: Make a third application prior to loss of visual peanut row pattern in the field, as needed	0.084-0.167 pound	

IV. Mixing Order

- 1) **Water:** Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- 2) **Products in PVA bags:** Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 3) **Water-dispersible products:** (dry flowables such as **Baseline**, wettable powders, suspension concentrates, or suspo-emulsions)
- 4) **Water-soluble products.**
- 5) **Emulsifiable concentrates:** (oil concentrate or methylated seed oil when applicable)
- 6) **Water-soluble additives:** (UAN or AMS when applicable)
- 7) Remaining quantity water

Maintain constant agitation during application. For more information, refer to section V. **General Tank Mixing Information.**

V. General Tank Mixing Information

Previous experience has shown **Baseline** to be compatible with many fungicides and insecticides commonly used in peanuts. A compatibility test should be used to ensure mixing compatibility. Do not tank mix **Baseline** with any application of calcium including gypsum.

Compatibility Test for Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

- 1) **Water:** — For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
- 2) **Products in PVA bags:** — Cap the jar and invert 10 cycles.
- 3) **Water-dispersible products:** — (dry flowables such as **Baseline**, wettable powders, suspension concentrates, or suspo-emulsions) Cap the jar and invert 10 cycles.
- 4) **Water-soluble products:** — Cap the jar and invert 10 cycles.
- 5) **Emulsifiable concentrates:** — (oil concentrate or methylated seed oil when applicable) Cap the jar and invert 10 cycles.
- 6) **Water-soluble additives:** — (UAN or AMS when applicable) Cap the jar and invert 10 cycles.
- 7) Let the solution stand for 15 minutes.
- 8) **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

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VI. General Restrictions and Limitations - All Crops

- **Maximum seasonal use rate:** Do not apply more than a **total of 0.5 pounds** of **Baseline** per acre, per season.
- Do not make more than two (2) applications of **Baseline** in less than six (6) weeks.
- **Preharvest Interval (PHI):** Do not apply within **25 days** of harvest.
- **Restricted Entry Interval (REI): 12 hours.**
- Do not graze or feed treated crops.
- Do not apply **Baseline** by air.
- **Rainfast period:** **Baseline** is rainfast **8** hours after application.
- **Stress:** Do not apply to crops under stress such as stress due to lack of moisture, hail damage, flooding, herbicide injury, or mechanical injury, as reduced activity may result.
- Do not apply to crops that show **injury** (leaf phytotoxicity or plant stunting) produced by any other prior product applications, because this injury may be enhanced or prolonged.
- Do not apply through any type of **irrigation** equipment.
- This product cannot be used to **formulate** or reformulate any other pesticide product.
- **Plantback/Rotation Restriction:** If replanting or crop rotation is necessary in treated fields, do not plant any crop other than peanuts for 30 days following the last application of **Baseline**.

Table 3. Crop-Specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI)	Maximum Rate Per Acre Per Application	Maximum Rate Per Acre Per Season
Peanuts	25 days	0.167 pounds	0.5 pounds

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Crops:

This product can be used on the following crops:

Peanuts

Look inside for complete **Restrictions and Limitations** and **Application Instructions**.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of K-I Chemical U.S.A. or the Seller. All such risks shall be assumed by the Buyer.

K-I Chemical warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. K-I CHEMICAL MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. K-I Chemical and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of K-I Chemical.

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