US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS "REGISTRATION DIVISION (75-767) WASHINGTON, DC 20480

10182-64

TE OF ISSUANCE

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Hantil Tolv 1, 1992

A REGISTRATION NO.

NOTICE OF PESTICIDE: REGISTRATION REREGISTRATION

(Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended)

Cymbush 2-1 Insecticide

NAME AND ADDRESS OF REGISTRANT (Include ZIP code

or therical Inc. The roults, al Chemical Division Good Diko & Mar Murahy Jame

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330/24660

NGTE: Changes in labeling formula 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 U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named posticide is hereby Registered/Reregistered inder the Federal Insecticide, Fungicide, and Rodeinticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

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- 7. Paper the reserve to filled with onto he later than Substitute 19, 1993
- 3. Submit pressure a souts bimonthly, beciming Sentember 1, 1929 through November 1, 1941. The reports must include information on how many samples of each type have been collected, how many have been analyzed and how many remain to be analyzed. This there concerts do not used to include raw late, one must know pecuast be pressured to submit raw data, even it it has not yet heen corrected to loculant the accuracy of the himonthly remort. Fach submodular remort as include the information required in the accuracy of remort of a terminal contract of the many information.
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BEST AVAILABLE COPY

ATTACHMENT IS APPLIC BLE

SIGNATURE OF PROVING OF ICIAL

Said Allen

DATE / 15/ 09

EPA Form 8570-6 (Rev. 5-74)

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

- 5. Submit the following supplemental information regarding the conduct of the mesocosm study by July 1, 1989:
 - a) Residue data for the slurry and drift application methods.
 - b) Any additional statistical information as a result of continued discussion with Agency staff.
 - c) Any proposed changes to the protocol or study design resulting from (a)&(b) above.

When EPA receives and reviews the above information and suggested changes due July 1 we will notify you if we agree with these changes, otherwise the protocol will remain as written.

These conditional registrations will be subject to an expiration date of July 1, 1992. Such expiration will occur automatically notwithstanding the fulfillment of any conditions set forth in this letter and expiration will not give rise to hearing rights pursuant to FIFRA Section 6(e). By a separate action the tolerances authorizing residues of the subject product on cotton, pecans and lettuce will be extended to July 1, 1993. After that date sale or distribution of food in interstate commerce containing any residues of the subject product will be a violation of the Federal Food, Drug, and Cosmetic Act.

6. Submit product information (pounds or gallons produced) for this product for the fiscal year in which the use on cotton, pecans, lettuce is conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1, and ends September 30.

This information is to be submitted to:

Registration Support Branch Registration Division (H7504) Environmental Protection Jency 401 M Street SV Washington 72 20460

You should note that if you fail to satisfy any of the conditions imposed on this registration, e.g., you fail to submit the required data by the specified deadlines or the data submitted were not generated in accordance with the Good Laboratory Practice Standards (40 CFR Part 160) and/or the EPA approved protocol, EPA may issue a Notice to Cancel this registration under FIFRA section 6(e).

Simultaneous Reporting to the Office of Compliance Monitoring (OCM)

OCM will be monitoring the data being generated in response to this Registration Notice. Therefore, if you respond by:

- Submitting modifications to the protocol or
- Requesting extensions in the due date for submitting final reports,

you must send a copy of the supporting information (not copies of the actual data) to:

Laboratory Data Integrity Assurance Division Office of Compliance Monitoring (EN-342) Environmental Protection Agency 401 M Street S.W., Washington, DC 20460

Finally, once the required data have been submitted, evaluated and accepted EPA will entertain an application for unconditional registration of the subject product to allow use on cotton, pecans, lettuce.

We have no objections to the amended labeling lowering the maximum applied season total from 1.0 the control of the season total to 0.6 lbs a.i. per acre would have any impact on the established tolerances. Depending on the outcome of the review, it may be necessary to lower the tolerances established on the raw agricultual commodities for cypermethrin.

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

George T. LaRocca Product Manager (15) Insecticide-Podenticide Branch Registration Division

Enclosure

Front Panel

RESTRICTED USE PESTICIDE

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.

CYMBUSH 2E Insecticide

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO - PRECAUCION AL USUAIRIO: Si usted no lee ingles, no use este producto hasta que la etiqueta la haya sido explicado ampliamente.

ACTIVE INGREDIENT:	
Cypermethrin	
(±)a-cyano-(3-phenoxyphenyl)methyl(±)-ci	s.
trans-3-(2,2-dichloroethenyl)-2,	14
2-dimethylcyclopropanecarboxylate*	25.37
INERT INGREDIENTS	
	TOTAL

*Cis/trans ratio: 45/55 ± 10

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STATEMENT OF PRACTICAL TREATMENT:

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

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN: Immediately remove contaminated clothing and wash with plenty of

IF ON SKIN: Immediarely remove contaminated clothing and wash with plenty of soap and water. Get medical attention of irritation persists.

IF INHALED: Remove victim to fresh sir. Apply artificial respiration if necessary.

NOTE TO PHYSICIAN: Inducing vomiting as first aid for this substance may, result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision.

FOR 24-HOUR EMERGENCY ASSISTANCE, CALL ICI AMERICAS MEDICAL EMERGENCY INFORMATION CENTER 1-800-327-8633.

ICI Agricultural Products ICI Americas Inc. Wiimington, Delaware 19897 EPA Reg. No. 10182-64

ACCEPTED EPA Est No.
with COMPLENTS U.S. Parent No. 4,024,163
in EPA Letter Dated Letter Contents: Callons
(Liters)

IUN 15 1989

Under the Federal Insecticies, Fungicide, and Rodenticide? amended, for the Section registered under TA Reg. I...

Page 2 of 3 CYMBUSH Container RS-102188A

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

CAUSES EYE AND SKIN IRRITATION. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTIONS. Do not get in eyes, on skin or on clothing. Avoid breathing vapors or spray mist. Wash thoroughly after handling.

Wear protective clothing when spraying. Wear protective clothing, impermeable gloves, full face shield, rubber apron and boots when handling or mixing concentrate. When mixing/loading and spraying, wear mid-forearm to elbow length chemical-resistant gloves, boots or overshoes, one piece overalls which have long sleeves or long pants, and face shield or goggles. Mixers/loaders should in addition wear a chemical-resistant arron.

Any article of clothing to makine a laying this product must be cleaned a residue. Clothing which has been drenched or heavily contaminated should be disposed of in accordance with state or local regulations.

Instead of clothing and equipment specified above, the applicator can use an enclosed tractor cab with filtered air supply.

ENVIRONMENTAL HAZARDS: This pesticide is extremely toxic to fish. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of waters. This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply CYMBUSH or allow it to drift to crops or weeds on which bees are actively foraging. Additional information may be obtained from your Cooperative Extension Service. Apply this product only as specified on this label.

In case of a significant spill, call CHEMTREC, 800/424-9300.

PHYSICAL OR CHEMICAL HAZARDS: Do not use or store near heat of open flame.

Front Cover

RESTRICTED USE PESTICIDE

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

CYMBUSH 2E Insecticide

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RATE CONVERSION CHART

Pounds	Fluid	Acres		
Active/Acre	Ounces/Acre	Pints/Acre	Treated/Gallon	
0.06	2.56	0.16	50.0	
0.08	3.41	0.21	37.5	
0.10	4.27	0.27	30.0	
			<u> </u>	

ICI Agricultural Products ICI Americas Inc. Wilmington, Delaware 19897

• ICI Americas Inc. 1988

EPA Reg. No. 10182-64 (Label Code)

*Cis/trans ratio: 45/55 ± 10 CYMBUSH 2E contains 2 pounds active ingredient per gallon

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

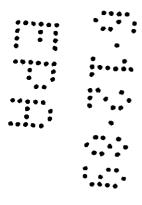
WARNING

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In case of a significant spill, call CHEMTREC, 800/424-9300.

PHYSICAL OR CHEMICAL HAZARDS: Do not use 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. Apply CYMBUSH 2E as shown in the following chart, using sufficient spray to obtain full coverage of foliage. Apply every 5 to 7 days or as needed. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. The use of less than recommended rates should only occur under conditions of light to moderate insect infestations.

RE-ENTRY STATEMENTS:

Do not treat areas while unprotected humans or domestic animals are present in the treatment areas.

Do not allow entry into treated areas without protective clothing until sprays have dried.

State re-entry regulations will apply if they are more restrictive than those stated on this label. Consult with State regulatory officials.

CHEMIGATION:

SPRINKLER IRRIGATION APPLICATION

Apply CYMBUSH 2E at rates and timing described elsewhere in this label. Apply with center pivot or continuous-move equipment distributing \(\frac{1}{2} \) acre-inch or less during treatment. If stationary (solid sets, handlines or wheel lines other than continuous move) are used, CYMBUSH 2E should be injected into no more than the last 20-30 minutes of the set. Do not apply when winds are greater than 10-15 mph to avoid drift or wind skips. Thorough coverage of foliage is required for good control. Good agitation should be maintained during the entire application period.

USE PRECAUTIONS - SPRINKLER IRRIGATION APPLICATION

- A. Apply this product only through (sprinkler including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move) irrigation system(s). Do not apply this product through any other type of irrigation system.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water,

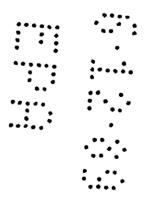
- C. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- D. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- E. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- F. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- G. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- H. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- J. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- K. Systems must use a metering pump such as a positive displacement injection pump (e.g., disphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- L. Do not apply when wind speed favors drift beyond the area intended for treatment.
- M. Do not apply through chemigation systems connected to public water systems.

POSTING REQUIREMENTS

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters of at least 2½ inches tall, and all letters and the symbol shall be a color which sharply contrasts with the immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.



SPRAY RECOMMENDATIONS

Crop	Target Pests	Rate (1bs. a1/A)	Remarks
Cotton	Cotton Bollworm Tobacco Budworm Boll Weevil Pink Bollworm Lygus Bug	0.06-0.10 (2.56-4.27 fl oz/A)	Apply as required by scouting reports, usually at intervals of 5 to 7 days. For boll weevil control, spray on a 3 to 4 day schedule.
	Cabbage Looper Cotton Leafperforator Cutworm spp. Thrips Beet Armyworm		Apply by air or ground. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.6 lb ai per acre per season.
	Flea Beetle Cotton Fleahopper Saltmarsh Caterpillar Whitefly* Cotton Aphid*		In areas of the country where insects have a history of being highly susceptible to insecticides, available data indicate rates as low as 0.04 lb ai/acre will control light lb ai/acre will control light infestations of bollworm, budworm, pink bollworm, cabbage looper, and lygus.
			NOTE:
		•	 The use of rates lower than 0.06 lb ai/A should be used only in conjunction with intense field monitoring.
			 Do not use less than 0.06 lb ai/A on initial (first) application because of the variation in size and age of insects present.

CYMBUSH

CYMBUSH may be applied in tank mixture with the following insecticides in accordance with label limitations and precautions. Label dosage rate should not exceed.

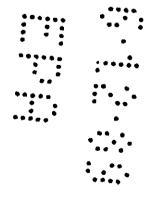
with at least a once refined vegetable oil such as cottonseed oil or soybean oil. Apply using 1-2 quarts of finished spray per acre.

Chlorodimeform CURACROND** Methyl Parathion GUTHIOND

Malathion LANNATES LARVINGS LORSBANG

may also be applied by air diluted

Do not apply within 14 days of harvest. Do not graze livestock in treated areas.



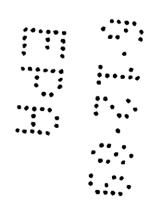
^{*} Aids in Suppression

^{**} Tank mix currently not registered for use in California.

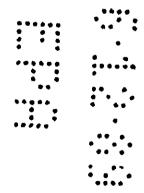
SPRAY RECOMMENDATIONS

Стор	Target Pests	Rate (1bs. a1/A)	·	Resarks
Pecans	Hickory Shuckworm Yellow Pecan Aphid Black Pecan Aphid Pecan Nut Casebearer Pecan Weevil	0.06-0.10 (2.56-4.27 fl oz/A)	Apply by ground equipment to the point of drip. The CYMBUSH 2E rates are based on standard of 100 gallons of dilute apray pacre for smaller trees. For larger trees which could require 200-300 gallons of sper acre, apply at the rate of 0.06-0.10 ai/200-300 gallons of water. In order to calculate the correct gallons of water ne to spray one acre of your trees to the po of drip, you say need to conduct a test, you do not know how to conduct such a tes with your equipment, you should request assistance from your equipment dealer.	
			PHI of at least 21	y prior to shuck/split and s days must be observed. Do in 0.6 lb ai per acre per
			Do not graze lives cut treated cover	stock on treated ground or crops for feed.
	•		the following pest label limitations	applied in tank mixture with icides in accordance with and precautions. Label id not be exceeded.
			RENLATED* CYPREND* DI-SYSTOND* Duter* EPN* Ethion*	LORSBANE * Super Tin SYSTOX** TOPSIN** ZOLONE*

^{*} Registration pending in California for tank mix use with CYMBUSH 2E.



	Target Pests	Rate (lbs ai/A)	Remarks
Lettuce (Head)	Cabbage Looper Alfalfa Looper Black Cutworm Granulate Cutworm	0.025-0.10 (1.07-4.27 fl. oz/A)	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment or 5 gallons per acre by air.
	Tobacco Budworm Corn Earworm Beet Armyworm	0.04-0.10 (1.71-7.27 fl. oz/A)	Lower rates of CYMBUSH should be used under light to moderate insect pressure. Higher rates should be used to control heavy insect populations.
			Do not apply more than 0.6 lb a1/A per season. Bo not apply within 5 days of harvest. Do not plant rotational crops within 30 days of the last application.



STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

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 of the nearest EPA Regional Office for Guidance.

CONTAINER DISPOSAL: Metal Container: 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. Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or 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. Glass Containers: Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

NOTICE TO BUYER AND USER: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller, and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

BENLATEC and LANNATE' - Reg. TMs of E.I. duPont de Nemours & Co. Inc. CYMBUSH@ - Reg. TM of ICI Americas Inc.
CYPREX@ - Reg TM of American Cyanimid Co.
CURACRON® - Reg TM of Ciba-Geigy Corporation.
DI-SYSTON® and SYSTOX® - Reg. TMs of Mobay Corporation.
GUTHION® - Reg. Th of Parent Company of Farbeniabriken Bayer Gmb. H. Leverkusen.
LARVIN® - Reg. TM of Union Carbide Agricultural Products Co. Inc.
LORSBAN® - Reg. TM of Pennwalt Corporation.
ZOLONE® - Reg. TM of Rhone-Poulenc, Inc.

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