		PM 19	33658-3	15	
ST C STATES	U.S. ENVIRONMENTAL PROTECTI Office of Pesicede Program Registration Division (7505 401 "M" St., S.W	ու Օ _{լ Կ}	EPA Rog Number 33658-3	FEB 27 199	
Anne morector	Washington, D C 20460		Term of Issuance. Until Reregistration		
L	Registration Reregistration		Name of Pesticide Product. Gharda		
(under FIFRA as amended) Name and Address of Registrant (include ZIP Code)		····		Chlorpyrifos 4E-SG	
Gharda Che 48, Hill R Bandra (We Bombay 400 India	st)				
Note Changes in labelin	ig differing in substance from that accepted in connecti the label in commerce. In any correspondence on this				
On the basis of informat Rodenticide Act	tion furnished by the registrant, the above named pesto	ide is hereby registered	i/reregistered under the Feder	al Insecticide Fungicide and	
	s motion may at any time suspend or cancel the regist stration of a product under this Act is not to be constru- ers	-		-	
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page 2 EPA Reg. No. 33658-3

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4. Submit two copies of the revised final printed label for the record.

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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.

Sincerely yours,

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Dennis H. Edwards, Jr. Product Manager (19) Insecticide-Rodenticide Branch Registration Division (7505C)

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RESTRICTED USE PESTICIDE

DUE TO ACUTE TOXICITY TO AVIAN AND AQUATIC ORGANISMS 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.

GHARDA CHLORPYRIFOS 4E-SG INSECTICIDE

For distribution and use only in Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, New Mexico, Nevada, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming

For control of aphids, including Russian wheat aphid, grasshoppers, wheat midge, brown wheat mite, and cutworms infesting wheat.

Active Ingredient:

chloropyrifos: 0,0-diethyl-0-(3,5,6-trichloro-2-pyridinyl)
phosphorothicate
Inert Ingredients;
Total
Contains 4 pounds of chlorpyrifos per gallon.

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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

Organophosphate

! swallowed: Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains aromatic petroleum solvent. Do not give anything by mouth to an unconscious person.

If in eves: Flush with plenty of water for at least 15 minutes. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

If inhaled: Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

Note to physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate signifigance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

ACCEPTED with COMMENTS

MFG. BY: EPA Establishment No.: EPA Registration No.: Net Contents:

In EPA Letter District a Chemicals Limited 33658-IND-001 FEB 27 1997

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 32,58-3

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING AVISO

May Be Fatal If Swallowed • Harmful If Absorbed Through The Skin Causes Moderate Eye and Skin Irritation • Prolonged or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Avoid breathing vapor or spray mist. Do not get in eyes, on skin, or on clothing.

Personal Protective Equipment (PPE)

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

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as Barrier Laminate or Viton
- · Chemical-resistant shoes plus socks
- Protective eyewear

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- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment and mixing or loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE seperately from other laundry.

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 ciothing.

Environmental Hazards

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal of waste. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your cooperative agricultural extension service.

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

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Read all Directions for Use carefully before applying

This product cannot be reformulated or repackaged into other and use products

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.

Agriculture 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 nurserles and greenhouses and handlers of agricultural pesticides. It contains requirements for training decontamination notification and emergency assistance. It also

ontains 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 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 • Coveralls over short sleeved shirt and short pants

- Coverails over anote allowed shift and short participants
 Chem cal resistant gloves such as Barrier Laminate or V ton
- Chemical resistant shoes plus socks
- Protective eyewear
- Chemical resistant headgear for overhead exposure

STORAGE AND DISPOSAL

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Storage Store in original container in secured dry storage area Prevent cross contamination with other pesticides and fertilizers. Do not store above100°F for extended periods of time. Storage below 20°F may result in formation of crystals. If product crystallizes store at 50 to 70°F and agitate to redissolve crystals. If container s damaged or spill occurs use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal Do not contaminate water food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. 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 for Refillable Containers. Replace the dry disconnect cap if applicable and seal all openings which have been opened during use

Container Disposal for Non Refulable 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.

Triple rinse (or equivalent) Then puncture and dispose in a sanitary landfill or by incineration or if allowed by state and local authorities by burning if burned istay out of smoke

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General Information

Gharda 4E SG insectic de forms an emulsion when d'iuted with water and is suitable for use in all conventional spray equipment. Consult your state experiment station or state extension service for proper timing of applications.

Mixing Directions

To prepare the spray add a portion of the required amount of water to the spray tank and with agitation add the Gharda 4ESG Complete filling the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

Gharda 4E SG may also be used in tank mixtures with certain herbicides and/or with non-pressure fertilizer solutions as recommended under specific crop use directions. Prepare tank mixtures in the same manner as recommended above for use of Gharda 4E SG alone. When tank mixtures of Gharda 4E SG and herbicides are involved add wettable powders first, flowables second and emuls fiable concentrates last. Where a fertilizer solution is involved it is strongly recommended that a fertilizer pesticide compatibility agent such as Unite or Compex be used. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Do not allow spray mixtures to stand overnight.

Note Test compatibility of the intended tank mixture before adding Gharda 4E SG to the spray or mix tank. Add proport onate amounts of each ingredient to a pint or quartijar cap shake and let set 15 minutes. Formation of precipitates that do not read ly redispense indicates an incompatible mixture that should not be used.

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Sprinkler Irrigation

Special Use Directions

The following use directions are to be followed when Gharda 4E SG is applied through sprinkler irrigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues and d spose of the residues according to state and federal laws Flush the injector with soap and water. Determine the amount of insecticide needed to cover the desired acreage. Pump the required Gharda 4E SG into a steel tank start mechanical or hydraulic ag tat on and add in order the non emulsifable oil and/or water Continually agitate the mixture containing Gharda 4E SG Set tha sprinkler system to deliver the desired inches of water per acre. Start the water pump and sprinkler and let the system achieve the desired pressure and speed before starting the injector. Start the injector and cal brate the njector system according to number 14 in "Special Use Precautions" The mixture containing Gharda 4E SG must be injected cont nuosly and uniformly into the irrigat on water line as the sprinkler is moving. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system

Special Use Precautions

The following use precautions will result in a safe and successful application of mixtures containing Gharda 4E SG

I Apply this product only through sprinkler imgation systems including center pivot lateral move end tow side (wheel) roll traveler big gun solid set micro sprinkler or hand move. Do not apply this product through any other type of migation system

2 Crop injury lack of effectiveness or illegal pesticide residues in the crop can result from nonun form distribution of treated water

3 If you have questions about cal bration you should contact state extension service specialists equipment manufacturers or other experts

4 Do not connect an irr gation system (including greenhouse systems) used for pesticide application to a public water system

5 A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shell shut the system down and make necessary adjustments should the need arise

6 The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the rigation pipeline to prevent water source contamination from back flow. Refer to the Agricultural Engineer's Engineering Practice 409 for more information.

7 The pesticide injection pipeline must also contain a functional automatic quick closing check value to prevent the flow of fluid back toward the inject on pump

8 The pest cide injection p peline must also contein a functional normality 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

9 The system must contain functional interlocking controls to automatically shut off the pesticide njection pump when the water pump motor stops

10 The rrigation 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 distribut on is adversely affected

11, Systems must use a metering pump such as a positive displacement injection pump leig diaphragm pump) effectively designed and constructed of materials that are compatible with pestic designed and capable of being fitted with a system interlock. The metering pump must provide a greater pressure than that of the ringation system at the point of njection. The pump must meet Section 675 for "Electrically Driven or Controlled Irrigation Machines" NEC 70 and must contain Viton or Teflon seals.

12 To insure uniform mixing of the insectic de into the water line inject the mixing through a nozzle placed in the fertilizer inject on port or just ahead of an elbow or tee in the irrigation line so that the turbulence created at those points will assist in mixing lit is suggested that the inject on point be higher than the insectic de tank to prevent siphoning

13 The steel tank holding the insecticide mixture should be large enough to allow the system to complete a revolution with one filing it should be free of rust fertilizer sed ment and foreign material and equipped with an in line strainer situated between the tank and the injector pump

14 In order to cal brate the irrigation system and injector to apply the mixture containing Gharda 4E SG determine the following (1) Calculate the number of acres irrigated by the system (2) Set the irrigation rate and determine the number of minutes for the system to cover the intended treatment area (3) Calculate the total gallons of insect cide mixture needed to cover the desired acreage Divide the total gallons of insecticide mixture needed by the number of minutes to cover the treatment area. This value equals the gallons per minute output that the njector must deliver. Convert the gallons per minute to mill ters or ounces per minute. Cal brate the injector pump with the system in operation at the desired at least twice before operation and the system should be monitored during operation.

15 Do not apply when wind speed favors drift beyond the area intended for treatment. End guns must be turned off during the application if they rrighte nontarget areas

16 Do not allow irright on water to collect or runoff and pose a hazard to livestock wells or adjoining crops

17 Allow follage to dry before reentering the field

18 Do not apply through sprinkler systems which deliver a low coefficient of uniformity such as certain water drive units

APPROVED CROPS

WHEAT

Use and Dosage recommendations

Apply Gha da 4E SG at the rate of 1/2 to 1 pint per acre (0.25 to 0.5 Ib a /acre) to control aphids (including Russian wheat aphid) brown wheat mite or grasshoppers

For control of wheat m dge use 1 pint of Gharda 4E SG per acre Treatment is recommended when 75% of the wheat heads have emerged from the boot and when m dge adults are found in the crop [1 m dge per 4 5 heads] Application t m ng is critical to ensure good control if possible apply in the late afternoon or early even ng when temperatules exceed 50°F and wind speed is less than 7 mph

For control of army cutworms and suppress on of other cutworm

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species use 1 pint of Gharda 4E SG per acre Control may be reduced under high temperature conditions (greater than 80°F) under dry soil conditions or if larvae are more than 1/2 inch long. Treat when field counts or crop injury indicates that damaging pest populations are developing or present. A second application of 1 pint/acre may be made for additional control.

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Mx the required dosage with water and apply in a minimum of 2 gallons per acre finished spray volume. Apply using aerial (fixed wing or helicopter) or power operated ground spray equipment. Gharda 4E SG may also be applied through sprinkler irrigation systems. Report any bird or fish kills which may be associated with the use of chlorpyr fos by calling (phone number to be assigned at final printing).

Restr ctions

- Do not make more than two applications per crop.
- Do not apply within 28 days of harvest.
- Do not allow livestock to graze or otherwise feed on treated forage with n 14 days of application
- Do not feed straw from treated wheat within 28 days of application
- Do not apply directly to bod es of water
- Do not apply product where runoff is I kely to occur to aquatic hab tats (including lakes public reservoirs rivers permanent treams marshes natural ponds estuaries or other natural waters) Jo not apply when weather conditions favor drift or runoff from treated areas

Ground Application

- For ground applications the distance from treated areas to aquatic habitats (including lakes public reservoirs rivers permanent streams marshes natural ponds estuaries or other natural waters) must be 30 feet or more
- Do not make ground applications if wind speed is greater than 15 mph
- Do not apply at spray boom pressures greater than 45 psi

Aerial Application

- Do not apply by air with n 300 feet of aquatic habitats (including lakes public reservoirs rivers permanent streams marshes natural ponds estuaries or other natural waters)
- Do not make aerial applications of Gharda 4E SG when wind speeds exceed 10 mph or when an atmospheric temperature inversion exists

Boom length should not exceed 75% of the wing span and release reight for aerial applications should be no greater than 10 feet above the crop canopy

Notice of Warranty and Disclaimer

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Seller warrants that at the time of delivery the product in this container conforms to its chem cal descript on contained hereon and is reasonably fit for its intended purpose under normal conditions of use. This is the only warranty made on this product. Seller expressly disclaims any implied warranties of merchantability or fitness for any particular purpose and except as set forth above any other express or implied warranties. Any damages arising from breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid for this product by Buyer and shall not include incidental or consequent al damages such as ibut not imited to loss. of profits or values. It is impossible to eliminate all risks inherently associated with the 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 the manner of use or application, all of which are beyond the control of the Seller in no case shall Seller be liable for the consequent al special or indirect damages resulting from the use or handling of this product All such risks shall be assumed by the Buyer Buyer acknowledges the use of its own independent skill and expertise in the select on and use of the product and does not rely on any oral or written statements or representations