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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Rick Stevens
Cheminova, Inc.
1700 Route 23, Suite 210
Wayne, New Jersey 07470

JUN 16 1999

Dear Mr. Stevens:

Subject: Labeling Amendment
Methyl Parathion 4EC
EPA Registration No. 67760-29
Your application dated 13 May 1999

The labeling amendment referred to above submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, has been received and reviewed and the labeling is acceptable subject to the comment listed below. Please note that in the very near future more changes to labeling of methyl parathion products may be required. Please incorporate the changes into your labeling prior to releasing your product for shipment. A stamped copy is enclosed for your records.

You must include the Special Local Need No. on the labeling. For example. In the block that specifies in Texas cotton only, you must also include the symbol EPA SLN No. TX-970006.

Sincerely,

A handwritten signature in black ink, appearing to be "L Cole".

Leonard Cole
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

RESTRICTED USE PESTICIDE

Due to very acute toxicity to Humans and Birds.

For retail sale only by certified applicator or persons under their direct supervision and only for uses covered by the certified applicator's certification. Direct supervision for this product is defined as the certified applicator being physically present during application, mixing, loading, repair and cleaning of application equipment. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

CHEMINOVA METHYL PARATHION 4 EC

Emulsifiable Concentrate - An Agricultural Insecticide

EPA Reg. No. 67760-29

EPA Est. No. 51036-GA-1

NET CONTENTS: _____

ACTIVE INGREDIENTS:

| | |
|--|--------------|
| *O, O - Dimethyl O-p-nitrophenyl thiophosphate | 43.8% |
| Related Compounds | 1.7% |
| INERT INGREDIENTS | <u>54.5%</u> |
| TOTAL | 100.0% |

ACCEPTED
with **COMMENTS**
in EPA Letter Dated:

JUN 16 1999
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 67760-29

*Methyl Parathion
Contains 4 pounds of Methyl Parathion per gallon

KEEP OUT OF REACH OF CHILDREN

DANGER POISON

PELIGRO VENENO

CAN KILL YOU IF SWALLOWED - This product can kill you if swallowed even in small amounts; spray mist may be fatal if swallowed.

CAN KILL YOU BY SKIN CONTACT - This product can kill you if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes).

CAN KILL YOU IF BREATHED - This Product can kill you if vapor or spray mist are breathed.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)

SPECIAL INSTRUCTIONS FOR RESTRICTED USE PESTICIDE RETAILERS:

In addition to any other required records, restricted use pesticide retailers must record at the time of sale the unique container identification number on this label or container and the identity of the purchaser of the container.

**IN CASE OF A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR NIGHT
1-800-228-5635, EXT. 153**

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER
WORKER SAFETY RULES**

The National Pesticide Telecommunication Network is available for recommendations regarding poisoning management, emergency treatment and other information regarding toxicity of methyl parathion. The toll free number for the National Pesticide Telecommunication Network is 1-800-858-7378.

If handled indoors, provide mechanical exhaust ventilation. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See First Aid Section.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow instructions for category G on an EPA chemical resistance category selection chart. Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Viton \geq 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading

For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA / NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA / NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

For exposures outdoors, a dust / mist filtering respirator (MSHA / NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P or HE prefilter.

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

ENGINEERING CONTROLS 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 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.

DURING AERIAL APPLICATION, HUMAN FLAGGERS ARE PROHIBITED.

POISON SIGNS (Symptoms): Methyl Parathion is a very dangerous poison. It rapidly enters the body on contact with all skin surfaces and eyes. Exposed persons must receive prompt medical treatment or they may die. *Some of the signs and symptoms of poisoning are:*

- | | |
|--|------------------------|
| Headache | Nausea |
| Vomiting | Cramps |
| Weakness | Blurred Vision |
| Pin-point Pupils | Tightness in Chest |
| Labored Breathing | Nervousness |
| Sweating | Watering of Eyes |
| Drooling or Frothing of Mouth and Nose | Muscle Spasms and Coma |

FIRST AID

This product contains an organophosphate and is a cholinesterase inhibitor.

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to methyl parathion and describe his condition. After first aid is given and if a doctor can not come, take the victim to clinic or hospital.

IF BREATHING HAS STOPPED: Start artificial respiration immediately and maintain until doctor sees victim.

IF SWALLOWED: Drink 1 to 2 glasses of water and induce vomiting by touching back of throat with finger. *Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.*

IN CASE OF CONTACT: Immediately flush eyes or skin with plenty of water. See doctor immediately.

NOTE TO PHYSICIAN: Antidote - administer atropine sulfate in large doses. TWO to FOUR mg. intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of antipinization appear. 2-PAM chloride is also antidotal and may be administered in conjunction with atropine. **DO NOT GIVE MORPHINE OR TRANQUILIZERS.** Methyl Parathion is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapses have been reported after initial improvement. **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to aquatic invertebrates and wildlife. Birds in treated areas may be killed. *Shrimp and other aquatic organisms may be killed at recommended application rates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark, unless otherwise permitted in Directions for Use.* Runoff and drift from target areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. 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.

COMBUSTIBLE

**DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME
NOT FOR USE OR STORAGE IN OR AROUND HOME**

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.

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 restricted entry interval (REI) of 48 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 long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Viton \geq 14 mils.
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to methyl parathion and describe his condition. For further information, see the FIRST AID portion of this pesticide label.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Do not store below temperatures of 0°F. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment listed under "PRECAUTIONARY STATEMENTS" when handling open containers.

SPILLED MATERIAL: Block or dike to prevent spreading of spill. Cover with absorbent material such as lime, clay or sawdust. Scoop and sweep into a disposable container. Wash area with strong lye solution, absorb and place into a disposable container.

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 at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Returnable / Refillable Sealed Container: Do not break seals or add any material to the container. Do not rinse container or empty any residue from container. This container must be returned intact after use to the point of purchase.

DIRECTIONS

Be sure to read the precautionary statements before using. This product is designed for application after dilution with water and for use by trained operators using airplane or power ground equipment. The hazards and precautions for handling the product in this container are equally applicable to it after dilution with water for spray application.

REMOVAL OF PRODUCT FROM CONTAINER

This container is fitted with the MICRO MATIC "DV" liquid transfer valve system. To remove product, use the MICRO MATIC coupler attachment, which is available from the seller of this container. The directions below must be followed.

To Connect Coupler:

- Attach pump hose to chemical pump.
- Attach pump hose to coupler.
- With coupler handle in disengaged position, insert coupler straight down into the drum valve, ensuring that the pins on the coupler align with the slots on the valve.
- Turn coupler handle clockwise a quarter turn, until it locks into place.
- Push down coupler handle to engage, ensuring that the lock bar clicks into place.

To Disconnect Coupler:

- Press down on coupler and disconnect the lock bar. Allow coupler handle to raise to its disengaged position.
- Turn coupler handle counter clockwise a quarter turn. Lift coupler straight up.

If you have any questions or need assistance, please call your distributor or 1-800-548-6113.

Add the concentrate to the spray tank while filling with water, and mix thoroughly either by means of a tank agitator or pump by-pass. For best results, thoroughly cover all surfaces to be treated with spray. Rates of application given below should not be exceeded. Never apply later than indicated to assure residue levels at harvest are below tolerance established by the Environmental Protection Agency.

Consult the State Agricultural Extension Service or Experiment Station for specific recommendations regarding application, dosage and timing of spray. For application by ground equipment, add the desired amount of concentrate to sufficient water to apply at least 3 gallons of water per acre. For application by aircraft, add the amount of concentrate desired per acre to 1 to 3 gallons of water consistent with crop growth and good coverage.

Do not use undiluted form.

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

| CEREALS | | | |
|--------------------------|--|----------------------|---|
| Crop | Pests Controlled | Use Rate (PT / Acre) | Pre-Harvest Interval and Comments |
| Barley, Oats, Rye, Wheat | Barley Thrips | ½ - ¾ | Do not apply within 15 days of harvest. |
| | Aphids, Black Grass Bugs, Stink Bugs, Winter Grain Mites | ½ - 1 1/2 | |
| | Climbing Cutworms, Grasshoppers | ¾ - 1 | |
| | Armyworms, Leafhoppers (to 3 rd instar) | 1 1/2 | |

| | Chinch Bugs, False Chinch Bugs, Say's Plant Bugs | 1 1/2 | |
|--|--|----------------------|--|
| | Western Wheat Mites, Brown Wheat Mites, Grasshoppers | 1 | |
| Corn | Armyworms, Climbing Cutworms, Corn Leaf Aphids, Corn Rootworm Adults, Fall Armyworms, Stink Bugs | 1/2 | Do not apply within 12 days of harvest. Do not apply during the pollen shed period. |
| | Grasshoppers | 1 | |
| Rice | Rice Stink Bugs | 1 - 1 1/2 | Do not apply within 15 days of harvest or within 14 days before or after a propanil application. Shrimp, crabs, and crayfish may be killed. Do not apply where these are important resources. |
| | Grasshoppers | 1 | |
| FIELD AND FORAGE CROPS | | | |
| Crop | Pests Controlled | Use Rate (PT / Acre) | Pre-Harvest Interval and Comments |
| Alfalfa, Clover | Alfalfa Weevil Larvae, Aphids (including Spotted Alfalfa Aphids), Climbing Cutworms, Grasshoppers | ½ - 1 | Do not treat within 15 days of harvest, cutting or grazing. In California and Nevada, do not use more than 3/4 pints per acre. Do not apply to alfalfa if the crop or weeds in the treatment area are in bloom. |
| | Alfalfa Caterpillars, Alfalfa Adult Weevils, Armyworms, Clover Leaf Weevils, Webworms | 1 | |
| | Egyptian Alfalfa Weevils, Leafhoppers, Lygus Bugs, Spider Mites | 1 - 2 | |
| Cotton | Thrips | 1/4 - 1/2 | Applications should be made at 4 to 5 day intervals until control is obtained. At listed dosages, application may be made up to the day before harvest, if harvest will be with mechanical pickers, 5 days for hand picking. |
| | Cotton Leafworms, Grasshoppers, Fall Armyworms, Boll Weevils, Aphids, Garden Webworms | ½ - 6 | |
| | False Chinch Bugs | 2 | |
| | Cutworms | 1 - 2 | |
| | Bollworm, Salt-marsh Caterpillars, Armyworms, Cotton Leaf Perforators, Stink Bugs | 2 ½ - 6 | |
| <p>Note: In Texas cotton only, may be applied ultra-low volume (ULV) diluted in 1 quart of refined vegetable oil (such as cottonseed). Apply aerially with aircraft outfitted with a delivery system designed to apply droplets with a VMD of 120 to 220 microns. When using conventional hydraulic nozzle systems, the nozzles should be oriented 90 degrees to the lamina airflow. Swath width should not exceed wing span plus 10%.</p> | | | |
| Grass (Forage) | Range Caterpillars | 1 | Do not apply within 15 days of harvest or grazing. |
| | Armyworms, Crested Wheat Bugs, False Chinch Bugs, Grasshoppers, Leafhoppers | 1 1/2 | |
| Soybeans | Climbing Cutworms, Three Cornered Alfalfa Hoppers, Garden Webworms, Aphids, Blister Beetles, Mexican Bean Beetles, Stink Bugs, Two-spotted Mites, Velvet Bean Caterpillars | 3/4 - 2 | Do not apply within 20 days of harvest or grazing. |
| | Bollworms, Fall Armyworms, Green Cloverworms | 2 | |
| Sugar Beets | Armyworms, Cutworms, Fall Armyworms, Flea Beetles, Grasshoppers, Leafhoppers, mites, Sugar Beet Webworms | ½ - 3/4 | Do not apply within 20 days of harvest; 60 days if tops are to be fed to animals. |
| Vetch | | | DO NOT apply within 15 days of harvest when using less than 2 pints. DO NOT apply within 20 days of harvest when using 2 - 2 ½ pints |

| | Alfalfa Weevil (Larvae) | ½ - 1 | Apply when 75% of terminals show feeding, when buds and shoots appear ragged or when larvae counts reach 25 per sweep. |
|--|--|----------------------|--|
| | Aphids, Leafhoppers | ½ - 1 | |
| | Armyworm | ½ - 2 1/2 | |
| | Climbing Cutworms, Lygus Bugs, Vetch Bruchid | 1 | |
| OIL SEED CROPS | | | |
| Crop | Pests Controlled | Use Rate (PT / Acre) | Pre-Harvest Interval and Comments |
| Sunflowers | Sunflower Moths, Sunflower Maggot, Sunflower Seed Weevil | 2 | Do not apply more than 3 times at 5 day intervals per season. Do not feed seeds to birds. Do not apply within 30 days of harvest. |
| Rapeseed / Canola Do not apply within 28 days of harvest. Do not graze treated fields or feed treated forage or threshings to livestock. Apply by ground or air in sufficient water for coverage (minimum of 3 gallons per acre by air). Do not apply more than two applications per season. To protect pollinators apply only in the evening or early mornings (this includes a period from 3 hours before sunset until 3 hours after sunrise of the following day) NOTE - In OREGON - apply product only in the evening (this includes a period from 3 hours before sunset until midnight of the same day). DO NOT APPLY in IDAHO and WASHINGTON STATE. Pesticide applicators in Idaho and Washington MUST refer to supplemental labeling exclusive to your state. To obtain this labeling, please call Cheminova, Inc., at 1-800-548-6113, and a copy will be faxed or mailed to you directly. | | | |
| | Cabbage Seedpod Weevil | 1 | Make first application when two or more insects can be found per plant on young pods. |
| | Flea Beetle, Cabbage Aphids | 1 | Treat in early season when significant evidence of shot holing by the adults becomes evident on the seedlings. |
| | Diamondback Moth Larvae | 1 | Treat about mid-growing season when populations reach damaging levels and there is evidence of appreciable feeding beginning on the flowers and / or pods. |
| VEGETABLES | | | |
| Crops | Pests Controlled | Use Rate (PT / Acre) | Pre-Harvest Interval and Comments |
| Beans (Dry and Green) | Aphids, Armyworms, Flea Beetles, Leafhoppers, Lygus Bugs, Mites | 1 - 3 | For rates up to 1 pint do not apply within 15 days of harvest. For rates above 1 pint do not apply within 21 days of harvest. DO NOT apply if the crops or weeds in the treatment area are in bloom. |
| | Cowpea Curculio, Cutworms (surface feeding and climbing), Stink Bugs | 2 - 3 | |
| Broccoli | Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites | 1 - 3 | For rates up to 1 pint do not apply within 7 days of harvest. For rates above 1 pint do not apply within 21 days of harvest. |
| | Stink Bugs | 2 - 3 | |
| Brussels Sprouts | Aphids, Armyworms, Flea Beetles, Leafhoppers | 1 - 3 | For rates up to 1 pint do not apply within 7 days of harvest. For rates above 1 pint do not apply within 21 days of harvest. |
| | Stink Bugs | 2 - 3 | |
| Cauliflower | Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites | 1 - 3 | |
| | Stink Bugs | 2 - 3 | |

| | | | |
|----------------------------------|--|-----------|---|
| Cabbage, Collards, Kale, Mustard | Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites | 1 - 3 | For rates up to 1 pint do not apply within 10 days of harvest. For rates above 1 pint do not apply within 21 days of harvest. |
| | Stink Bugs | 2 - 3 | |
| Carrots | Aphids, Armyworms, Cutworms (surface feeding and climbing), Flea Beetles, Leafhoppers, Mites | 2 | Do not apply within 15 days of harvest. DO NOT feed tops. |
| Celery | Aphids, Armyworms, Flea Beetles, Leafhoppers, Lygus Bugs, Mites, Stink Bugs | 2 | Do not apply within 15 days of harvest. |
| Lettuce | Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites | 2 | Do not apply within 21 days of harvest. |
| Onions | Thrips | 1 | Do not apply within 15 days of harvest. |
| Peas | Aphids, Armyworms, Flea Beetles, Leafhoppers, Lygus Bugs, Mites | 1 - 2 | For rates up to 1 pint do not apply within 10 days of harvest. For rate above 1 pint do not apply within 15 days of harvest. DO NOT apply if the crops or weeds in the treatment area are in bloom. |
| | Cowpea Curculio, Cutworms (surface feeding and climbing), Stink Bugs | 2 | |
| Potatoes | Aphids, Armyworms, False Chinch Bugs, Flea Beetles, Leafhoppers, Mites, Shield Bugs | 3 | Do not apply within 6 days of harvest. |
| Spinach | Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites, Seed Corn Maggots in Crown, Crown Mites | 1 - 2 | For rates up to 1 pint do not apply within 15 days of harvest. For rates above 1 pint do not apply within 21 days of harvest. |
| Turnips | Aphids, Armyworms, Flea Beetles, Leafhoppers, Leafminers, Mites | 1 - 1 1/2 | Do not apply within 15 days of harvest. If tops are to be used for food or feed, do not apply within 21 days of harvest. |

**BAR CODE OR UNIQUE IDENTIFYING NUMBER
will appear on labeling or on container.**

NOTICE: Because Cheminova has no control over storage, handling and conditions of use, which are of critical importance, Cheminova makes no representation or warranty, either expressed or implied, for results or residues greater than any tolerance which may be established by appropriate governmental agencies, due to misuse, improper handling or storage of this material. Nor does Cheminova assume responsibility for injury to persons, crops, animals, soil or property arising out of misuse, improper handling or storage of this material.

ATTENTION: Do not use in any manner other than recommended on this label. To avoid excessive residues of methyl parathion on food or forage crops, always observe the statements found under "DIRECTIONS FOR USE" limiting the time before harvest when methyl parathion may be applied.

9/E13/9

Manufactured By:

CHEMINOVA, INC.
1700 Route 23, Suite 210
Wayne, NJ 07470