



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Acceptance stamp on pg 4

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

October 17, 1997

H.R. McLane
7210 Red Road
Suite 206
Miami, F.L. 33143-5312

Dear Mr. McLane:

Subject: Confidential Statement of Formula and Label revisions for
AMVAC Chemical Corporation's product Methyl Parathion 5
(EPA Reg. No. 5481-175).

The Agency has reviewed your submission for a revised
Confidential Statement of Formula, and the following comments
apply:

The Confidential Statement of Formula dated April 16, 1997 for
the Methyl Parathion 5 (EPA Reg. No. 5481-175) formulation
agrees with the label claim in compliance with PR Notice 91-2
and is acceptable.

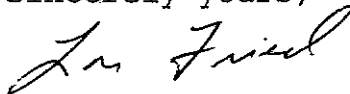
The Confidential Statement of Formula has been added to your file
as part of the record.

The labeling referred to above, submitted in connection with
registration under the Federal Insecticide, Fungicide, and
Rodenticide Act, as amended, is acceptable with the following
provision:

- 1) Please delete the following "EPA EST 5481-CA-1"

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above changes, before releasing the product for shipment.

Sincerely yours,



Lawrence Fried
Biologist
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

RESTRICTED USE PESTICIDE
 Due to Very High Acute Toxicity to Humans and Birds 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 Applicators 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.

METHYL PARATHION 5

Organophosphorus Insecticide Emulsifiable Liquid

ACTIVE INGREDIENTS:
 O,O-dimethyl O-p-nitrophenyl Phosphorothioate . . . 52.75%
 Related Compounds . . . 2.05%
INERT INGREDIENTS: . . . 45.20%
 Total 100.00%
 *Methyl Parathion Content 5 lbs. Per Gallon.

KEEP OUT OF REACH OF CHILDREN DANGER-POISON PELIGRO

RAPIDLY ABSORBED THROUGH THE SKIN & EYES. POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN, EYES OR THROUGH CONTAMINATED CLOTHING. ALWAYS CALL A PHYSICIAN IN CASES OF SUSPECTED POISONING.

***PRECAUCION AL USUARIO: Si usted no lee ingles, no use esta producto hasta que la etiqueta haya sido traducido a su idioma.*
 STATEMENTS OF PRACTICAL TREATMENT**

Call a doctor (physician), Poison Control Center or hospital immediately. Explain that the victim has been exposed to Methyl Parathion and describe persons condition. If breathing has stopped, start artificial respiration immediately and maintain until physician sees victim.



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 vapors, or spray mist is breathed.

IF SWALLOWED and victim is awake (conscious) make him vomit quickly. Induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. Repeat until vomit fluid is clear. Never induce vomiting or give anything by mouth to and unconscious or comatose person. Have victim lie down and keep quiet.
IF INHALED: Remove victim to fresh air immediately. Apply artificial respiration if indicated. Get medical attention immediately.
IF IN EYES: Flush eyes with plenty of water. Get medical attention immediately.
IF ON SKIN: Remove contaminated clothing immediately and wash affected area with soap and water. Call a physician immediately. See Worker Safety Rules.
IF POISONING SYMPTOMS appear (See Poisoning Symptoms under NOTE TO PHYSICIAN) Keep patient prone and quiet. Start artificial respiration immediately if patient is not breathing. Transport the patient immediately to the nearest hospital.

SEE SIDEBACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS
 (175 and PMA/methyl para. labeling additions 03-28-97)
 EPA REG. NO. 5481-175 EPA EST 5481-CA-1
 NET CONTENTS 5 GALLONS
AMVAC CHEMICAL CORPORATION
 4100 EAST WASHINGTON BLVD.
 LOS ANGELES, CA 90023 U.S.A

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER: Poisonous if swallowed, inhaled or absorbed through the skin and eyes. Rapidly absorbed through the skin. Repeated inhalation or skin contact may without symptoms, progressively increase susceptibility to Methyl Parathion poisoning. Do not swallow or get in eyes, on skin or on clothing. Do not breathe vapors. Do not contaminate food or feed products. Wear clean natural rubber gloves and waterproof protective clothing and goggles or face shield. Replace gloves frequently and destroy used gloves. Wear a mask or respirator of a type jointly approved by the Mine Safety and Health Administration and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11 approved for Methyl Parathion protection. Wash thoroughly with soap and water after handling and before eating or smoking. Pilot should not assist in mixing and loading operation. Do not contaminate or store near food or feedstuff. Note section on Worker Safety Rules and Reentry Statement.

NOTE TO PHYSICIAN - POISONING SYMPTOMS
 Methyl Parathion is a highly toxic cholinesterase inhibitor. Symptoms include weakness, headache, tightness in chest, blurred vision, non reactive pin point pupils, salivation, sweating, nausea, vomiting, diarrhea, and abdominal cramps. **TREATMENT:** Atropine is the specific therapeutic antagonist of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation Atropine Sulfate should be injected at 10 minute intervals in doses of 1 to 2 milligrams until complete atropinization has occurred. Pralidoxime chloride (2-PAM chloride) may also be used as an effective antidote in addition to and while maintaining full atropinization. In adults, an initial dose of 1 gram of 2-PAM should be injected, preferably by an infusion, in 250 cc of saline over a 15 to 30 minute period. If this is not practical, 2-PAM may be administered slowly by intravenous injection as a 5% solution in water over not less than 2 minutes.

After about an hour, a second dose of 1 gram of 2-PAM will be indicated if muscle weakness has not been relieved. For infants and children, the dose of 2-PAM is 0.25 grams. Morphine is an improper treatment. Clear chest by postural drainage. Oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeated exposure to cholinesterase inhibitors may without warning cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. Allow no further exposure until time for cholinesterase regeneration has been attained as determined by a blood test. For 24 hours emergency medical assistance call (213) 264-3910. OR The National Pesticide Telecommunication Network 1-800-858-7378.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to aquatic invertebrates and wildlife. Birds in treated areas may be killed. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.
RE-ENTRY AND WORKER SAFETY STATEMENT
 Reentry into treated fields is prohibited for 48 hours after application, unless all protective clothing and equipment required for early reentry as described elsewhere on the label are worn.
 Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until 48 hours have elapsed. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Written or oral warnings must be given to workers who are expected to be in treated areas or in an area to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:**DANGER:** Area treated with METHYL PARATHION 5 on (Date). Do not enter treated crop areas for 48 hours unless the protective clothing and equipment specified on this label are used. In case of accidental exposure see Statements of Practical Treatment found on this Methyl Parathion 5 product label.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. **STORAGE:** Store product in original container in a cool, dry, locked place out of reach of children. If product is involved in a significant "spill", call CHEMTREC 1-800-424-9300 or (213) 264-3910. Wear a pesticide respirator approved for Ethyl or Methyl Parathion and avoid forming dust clouds during clean-up sweep up and place in labeled drum. Dispose of according to the instructions below in pesticide disposal.

PESTICIDE DISPOSAL: Pesticide are acutely hazardous. Improper disposal of excess pesticide, spray mixture or residue is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your nearest 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 reuse container or empty any residue from container. This container must be returned intact after use to the point of purchase.

WORK SAFETY RULES

The National Pesticide Telecommunication Network is available for recommendations regarding poisoning management, emergency treatment and other information regarding the toxicity of Methyl Parathion. The toll free number is 1-800-858-7378. If handled indoors provide mechanical exhaust ventilation. Keep all unprotected persons, children, livestock, and pets away from treated area or where there is danger of drift. 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 (Statement of Practical Treatment) section on this label.

HANDLE THE CONCENTRATE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT.

Wear a protective suit of one or two pieces that covers all parts of the body except the head, hand, and feet. Wear chemical resistant gloves, chemical resistant apron, and chemical resistant shoes, shoe coverings, or boots. Wear goggles or face shield. Wear a pesticide respirator approved by the National Institute for Occupational Safety and Health under the provisions of 30 CFR part 11. **USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR AND CLEANING OF APPLICATION EQUIPMENT, DISPOSAL OF PESTICIDE, AND EARLY REENTRY INTO TREATED AREAS;** protective suit of one or two pieces covering all parts of the body except the head, hands, and feet; chemical resistant gloves, chemical resistant shoes (or chemical resistant shoe coverings or resistant boots), goggles or face shield, hood or wide brimmed hat, NIOSH approved respirator.

IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE; long-sleeved shirt, long-legged pants, chemical resistant gloves, chemical resistant apron, shoes and socks. Goggles or face shield must be worn when the system is under pressure. All other protective clothing and equipment required for use with open systems must be available nearby.

IF APPLICATION IS PERFORMED USING AN ENCLOSED CAB OR COCKPIT, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE; long-sleeved shirt and long-legged pants, shoes and socks. Chemical resistant gloves must be available in the cab or cockpit and must be worn during entry to and exit from the application vehicle. All other protective clothing and equipment required for use during application must be available in the cab and must be worn when exiting the cab into treated areas. When used for this purpose, contaminated clothing may not be brought back into the cab unless in an enclosure such as a plastic bag.

REMEMBER THIS CLOTHING IS INADEQUATE TO PROTECT YOU DURING REPAIR AND CLEANING OF APPLICATION EQUIPMENT AND EARLY REENTRY TO TREATED AREAS! REFER TO PROTECTIVE CLOTHING AND EQUIPMENT REQUIREMENTS ABOVE.

IMPORTANT! If pesticide comes in contact with skin, wash off with soap and water and contact a physician immediately. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or toileting. **AFTER WORK:** Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job—do not wear contaminated clothing. Personal clothing worn during work must be stored and laundered separately from protective clothing and household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirators. Protective clothing and protective equipment heavily contaminated or drenched with Methyl Parathion must be destroyed according to State and local regulations.

HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED. DURING AERIAL APPLICATION, HUMAN FLAGGERS ARE PROHIBITED.

SPECIAL INSTRUCTIONS FOR RESTRICTION OF PESTICIDE

RETAILERS: In addition to any other requirements, 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.

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.

1. Connect Coupler: Attach pump hose to chemical pump.
2. Attach pump hose to coupler.
3. 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.
4. Turn coupler handle clockwise a quarter turn, until it locks into place.
5. Push down coupler handle to engage, ensuring that the lock bar clicks into place.

To Disconnect Coupler:
 1. Press down on coupler and disconnect the lock bar. Allow coupler handle to raise to its disengaged position.

2. 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 1-800-548-0113

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 through any type of irrigation equipment. Application can be made by aircraft or ground power equipment by trained personnel only using approved protective equipment. Do not apply with hand equipment. Pour specific amount of this product into nearby filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. If mixture does not mix readily, but tends to separate as an oily layer, do not use as injury to plants may result. Do not combine with wettable powders unless previous use of the mixture has proven physically compatible and safe to plants. Always thoroughly emulsify this product with at least half of total water before adding wettable powder.

AIRCRAFT AND GROUND EQUIPMENT WATER RATES PER ACRE

Unless specified for certain crops or claims use the following water rates:
AIRCRAFT APPLICATION: Vegetable and Field Crops - Use 1 to 10 gallons diluted spray per acre. **GROUND APPLICATION:** The amount of water needed to treat an acre varies, therefore the following rates are given to cover a broad range of conditions (except as noted for specific crops). Vegetable and Field Crops - 20 to 100 gals. water per acre. **MAXIMUM PERMISSIBLE RATE / ACRE, EXPRESSED AS METHYL PARATHION 5 IS GIVEN IN PARENTHESIS (x pint), AFTER EACH CROP CLAIM.**

VEGETABLE, FIELD & SPECIAL USES

ALFALFA HAY: For Alfalfa Weevil larvae, Aphids, Armyworms (up to 3rd instar), Flea Beetles, Leafhoppers. Use 4/5 pint (approx. 13 fluid ounces) (Calif use 3/5 pint only) per acre. For weevil control apply when 75% of terminals show feeding damage. Do not apply within 15 days of harvest. (Areas other than Calif., 2 pints). Do not apply this rate within 20 days of harvest. Calif. (2/5 pint).

ALFALFA (FOR SEED): For Aphids, Armyworms (up to 3rd instar), Leafhoppers, Mites; use 4/5 pint per acre by aircraft or ground equipment at first sign of infestation. (4/5 pint.) Alfalfa Chalcid, Flea Beetle, Lygus and Stink Bugs. Use 1/2 to 1 1/2 pints per acre by aircraft or ground equipment at first sign of infestation. Apply in early morning or late evening to avoid injury to pollinators. Do not apply within 15 days of harvest. Water rates / acre: Aircraft 5 to 10 gals.; Ground 25-100 gals. (2 pints).

ALFALFA, CLOVER, VETCH: For Spotted Alfalfa Aphids. Use 2/5 to 4/5 pint (Calif. use 3/5 pint only). Apply in early spring. Follow State recommendations. For the control of Aphids, armyworms, (up to 3rd instar) leafhoppers and Mites. Use 4/5 pint per acre (3/5 pint only in Calif.). Do not apply within 20 days of harvest (15 days in Calif. (Areas other than Calif., 4/5 pint; Calif. - under 3/5 pint).

ARTICHOKES: For Aphids, armyworms (up to 3rd instar), Artichoke Plume Moth; use 1 3/5 pint by air in a minimum of 10 gals. water per acre. Use 1 pint. Do not apply within 7 days of harvest. (1 3/5 pint).

BEANS, DRY: For Aphids, Armyworms (up to 3rd instar), Flea Beetles, Mites. Use 1 3/5 to 2 2/5 pints per acre. Do not apply within 15 days of harvest. (2 2/5 pints).

BEANS, GREEN: For Aphids, Armyworms (up to 3rd instar), Flea Beetles, Mites. Use 1 3/5 to 2 2/5 pints per acre. Do not apply within 21 days of harvest. (2 2/5 pints).

BEETS, SUGAR: For Armyworms, Flea Beetles, Leafhoppers, Mites use 2/5 to 3/5 pint. Do not apply within 20 days of harvest; 60 days if tops are to be used for food or feed. (3/5 pint).

CARROTS: For Aphids, Armyworms (up to 3rd instar). Use 1 to 1 3/5 pints. Do not apply within 15 days of harvest. (1 3/5 pint) Do not use treated carrot tops for food or feed. (1 3/5 pint).

CELERY: For Aphids, Armyworms (up to 3rd instar). Use 1 to 1 3/5 pints per acre. Do not apply within 15 days of harvest. (1 3/5 pint).

COLE CROPS (BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, COLLARDS, KALE): For Aphids, Armyworms (up to 3rd instar), Flea Beetles. Use 4/5 pint per acre. Do not apply this rate within 7 days of harvest on broccoli, Brussels Sprouts and Cauliflower; 10 days of harvest on cabbage, collards and kale. Or use 1 3/5 pint per acre. Do not apply this rate within 21 days of harvest. (1 3/5 pint).

CORN: (Fodder and Grain including field, sweet and popcorn): For Aphids, Armyworm (up to 3rd instar), Flea Beetles, Mites. Use 2/5 pint per acre. Repeat application if necessary. Workers entering treated fields the day of application must wear protective clothing. Do not apply within 12 day of harvest. (2/5 pint).

COTTON: For Aphids, Boll Weevil, Cotton Leafworm, Fleahoppers, Lygus, Red Spider Mites, Thrips. Use 2/5 to 4/5 pint per acre. Application should be made at 4 to 5 day intervals until control is obtained. For control of Cotton Leaf Parrotlar and Armyworms (up to 3rd instar) use 2 pints per acre.

Cotton Bollworm control (CALIF. ONLY): Apply 1 3/5 to 4 4/5 pints per acre by aircraft in 3 to 5 gals. of water per acre. Make this application 2 or 3 times at 3 to 4 day intervals. Depending on infestation, repeat this series of 2 or 3 applications in 7 to 10 days or more, as needed to maintain control. Do not sprinkle irrigate during the 3 to 4 day application intervals. Late afternoon or evening treatments are preferred. Workers entering treated fields within 24 hours of application must wear protective clothing. Do not apply within 7 days of hand picking or harvest. (4 4/5 pints).

LETTUCE: For Aphids, Armyworms (up to 3rd instar). Use 1 to 1 3/5 pint per acre. Do not apply within 21 days of harvest. (1 3/5 pints).

ONIONS: For onion Thrips use 1 pint in 15 gals of water for aircraft application; 10 to 25 gals by ground equipment. Repeat at weekly intervals. Do not apply within 15 days of harvest. (1 1/4 pint).

PEAS: For Aphids, Armyworms (up to 3rd instar). Use 1 to 1 3/5 pint per acre. Do not apply within 15 days of harvest. (1 3/5 pints).

POTATOES: For Aphids, Armyworms (up to 3rd instar), Flea Beetles, Mites. Use 1 3/5 pint per acre. Do not use within 5 days of harvest. (1 3/5 pints).

RICE (CALIF. ONLY): For Rice Leaf Miner and Tadpole shrimp. Apply at the first sign of infestation after planting, using 1 1/5 pint in 5 to 10 gals. water by aircraft. Restrict spill from rice fields for 3 days. Do not apply within 15 days of harvest. **CAUTION:** Do not use within 14 days of application of Propanil. Injury may result. (1 1/5 Pint).

SMALL GRAIN (BARLEY, OATS, RYE, WHEAT): For Aphids (Green Bugs), Black Grass Bug (Iribia), Brown Wheat Mite (Petrobia), Stink Bugs. Apply 2/5 to 4/5 pint per acre. For Armyworms (up to 3rd instar), and Leafhoppers use 4/5 pint per acre. Use limitations: 2/5 pint per acre - none; over 2/5 pint to 4/5 pint - 15 days of harvest. (4/5 pint).

SOYBEAN: Stink Bugs, Three Corned Alfalfa Hopper and Velvet Bean Caterpillar. Use 3/5 to 4/5 pint per acre. Do not apply within 20 day of harvest. (1 3/5 pint).

SPINACH: For Aphids, Armyworms (up to 3rd instar). Use 1 to 1 3/5 pint per acre. Do not apply within 21 days of harvest. (1 3/5 pints).

TURNTIPS (COASTAL AREAS OF CALIF.): For Cabbage Aphids. Use 1 1/4 pint when Aphids are present and colonies are abundant. Repeat as necessary to maintain control but do not apply within 15 days of harvest (22 days if tops to be used for food or feed). (1 1/4 pint).

NOTICE: This product conforms to its chemical description and is reasonably fit for the purpose stated on the label, when used in accordance with directions under normal conditions of use. Manufacturer is not responsible for the use of this product contrary to the label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the manufacturer &/or seller & the buyer assumes the risk of any such use.

FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY TRANSPORTATION: CHEMTREC - 1-800-424-9300 MEDICAL HAZARD INFORMATION SERVICES 1-800-228-5835 Ext. 100

D.O.T. REQUIREMENT: Methyl Parathion: MIXTURE, LIQUID: (RQ-1/0.454) POISON "B" NA 2783

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ACCEPTED
with COMMENTS
In EPA Letter Dated
10-17-97

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

5481-175