



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

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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

28 MAR 1989

Platte Chemical Company
P.O. Box 667
Greeley, CO 80632

Gentlemen:

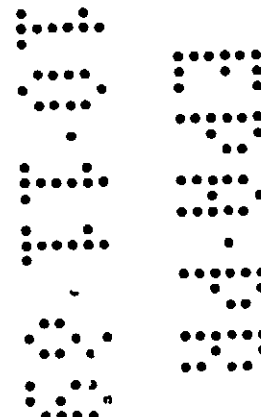
Subject: Balcom Malathion 55 Insecticide Premium Grade
EPA Registration No. 34704-3
Your Letter Dated March 1, 1989

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,

William H. Miller
Product Manager (16)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

Enclosure



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Harmful if swallowed. Avoid contact with skin. Wash thoroughly after using. Avoid breathing of spray mist. Do not use treated seed for food, feed or oil purposes.

Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until sprays have dried.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment 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 & CHEMICAL HAZARDS

Do not use or store near heat or open flame.

STATEMENT OF PRACTICAL TREATMENT

- If Swallowed** — Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Repeat until vomit has cleared. Do not induce vomiting or give anything by mouth to an unconscious person.
- If Irritated** — Remove victim to fresh air. Apply artificial respiration if indicated.
- If On Skin** — Remove contaminated clothing and wash affected areas with soap and water.
- If In Eyes** — Flush eyes with plenty of water. Call a physician if irritation persists.
- Note to Physicians:** This product may cause cholinesterase inhibition. Atropine is essential. 2-PAM may be effective as an adjunct to atropine.

RE-ENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. 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. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason



A C C
MAF
Under the Federal
Rodenticide Act
of Insecticide Reg.

**MALATHION
INSECTICIDE
PREMIUM GRADE**

ACTIVE INGREDIENTS:	
Malathion*
INERT INGREDIENTS
	TOTAL
*O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinic acid	
Contains 5 pounds of Malathion per gallon.	
**This product contains xylene range aromatics.	

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

SEE BOOKLET FOR DIRECTIONS FOR USE
EPA REG. NO. 34704-3 EPA EST. NO. 279-0
NET CONTENTS 2½ GALLONS

* CLEAN CROP is a Registered T.M. of United Agri Products, Inc.

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KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

9 Symptoms — Call a Physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by sticking the back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If on food — Remove victim to fresh air. Apply artificial respiration if indicated.

If on skin — Remove contaminated clothing and wash affected areas with soap and water.

If in eyes — Flush eyes with plenty of water. Call a physician if irritation persists.

First Aid Physician: This product may cause cholinesterase inhibition. Atarax is essential. 2-PAM may be effective as an antidote to atarax.

EPA REG. NO. 34704-3

STORAGE AND DISPOSAL

PROMPTIONS: 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: Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Do not store below temperature of 0°F. Personnel should use clothing and equipment consistent with good pesticide handling.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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 State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Metal: 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR GRAIN, SEED USE

For the protection of stored grains such as wheat, oats, rice, corn, rye, barley, grain sorghum and field or garden seeds, against confused flour beetle, rice weevil, granary weevil, sawtoothed grain weevil, and Indian meal moth, apply 1 pint MALATHION 55 PREMIUM GRADE in 2 to 5 gallons of water per 1000 bu. Apply as the grain is being loaded or turned into final storage.

Field and garden seeds can be protected against the above grain pests with a dosage of 1/2 pt. of MALATHION 55 PREMIUM GRADE in 1 to 2 1/2 gallons of water per 500 bu. of seed.

To protect stored grains from attack by Indian meal moth, apply MALATHION 55 PREMIUM GRADE to the surface of clean or uninfested grain at the rate of 1/2 pt. in 1 to 2 gallons of water per 1000 sq. ft. of grain surface area. Apply the spray evenly over the surface of the grain. Apply immediately after grain is loaded into storage and repeat if necessary.

For a residual wall, floor, and machinery spray in grain elevators, in treating truck beds, box cars and ships' holds before loading grain, apply 1 gallon of MALATHION 55 PREMIUM GRADE per 25 gallons of water making thorough application. Before applying spray, clean elevators, box cars, etc. thoroughly. Remove and burn all sweepings and debris.

If bees are visiting the treatment area.

PHYSICAL & 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.

RE-ENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers.

Written or oral warnings must include the following information:

CAUTION

(Insert area or field description) treated with Malathion on (insert date of application). Do not enter treated areas without protective clothing until sprays have dried. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to Malathion and describe his condition. For further information see the "PRECAUTIONARY STATEMENT" portion of the pesticide label.

DIRECTIONS FOR CROP USE

Begin applications when insects first appear and repeat as required. Full coverage is essential for control. Observe days interval between last application and harvest indicated by the number in () following the crop.

When applying the material by aircraft, mix the required amount with sufficient water to provide a minimum of 1 gallon finished spray per acre. Care should be taken that this material is not allowed to drift onto neighboring crop or non-crop areas.

CHEMIGATION

Refer to supplemental labeling entitled "APPLICATION THROUGH IRRIGATION SYSTEMS—CHEMIGATION" for use directions for chemigation. Do not apply this product through any irrigation systems unless the supplemental labeling on chemigation is followed.

FRUIT: AMOUNTS RECOMMENDED ARE AMOUNTS TO USE PER 100 GALLONS OF WATER. APPLY AT PETA, FALL AND EVERY 10 TO 14 DAYS THEREAFTER UNTIL CONTROL IS ACHIEVED.

APPLES (3): Woolly Aoid, Bud Moth, Forbes Scale - use 1 pt. Green Apple Aoid, Rose Apple Aphid - use 1 1/2 pt. Mealy bug, Spider Mite - use 1 to 2 pts. Codling Moth, Plum Curculio, Red-banded Leafroller - use 2 pts. Applications of this material may cause injury on McIntosh and related varieties of apples.

PEARS (1): Spider Mite, Pear Psylla, Mealybugs—use 1 to 2 pts. Codling Moth, Plum Curculio, Fruit Tree Leafroller, Red-banded Leafroller - use 2 pts. Applications may cause injury to Boac pears under certain conditions.

PEACHES (7): Oriental Fruit Moth, Plum Curculio - use 2 pts.

PLUMS (3); PRUNES (3): Mealy Plum Aphid - use 1 pt.

SMALL FRUIT, VEGETABLES, ORNAMENTALS, FIELD CROPS: AMOUNTS RECOMMENDED ARE AMOUNTS TO USE PER ACRE IN SUFFICIENT WATER TO COVER

BLACKBERRY (1); BOYSENBERRY (1); DEWBERRY (1); LOGANBERRY (1); RASPBERRY (1): Japanese Beetle, Leafhopper, Thrips, Mites - use 1 1/2 pts.

CRANBERRY (3): Leafhopper, Black-Headed Fireworm, Spotted Cranberry Fruitworm - use 1 1/2 pts. Do not apply close to or during the bloom and berry-set period. Do not apply when foliage is wet.

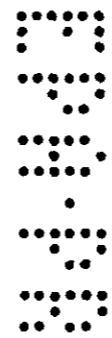
GRAPES (2): Spider Mite, Mealybugs - use 1 1/2 pts. Applications may cause injury to River grapes.

STRAWBERRY (3): Spider Mite, Aphids - use 1 1/2 pts. Thrips - use 1/2 to 3/4 pts.

BEANS (1): Spider Mite, Mexican Bean Beetle - use 1 1/2 pts.

BRETS (7); BRUSSELS SPROUTS (7): Aphids - use 1 to 2 pts.

CABBAGE (7); KALE (7); MUSTARD (7); CAULIFLOWER (7); BROCCOLI (3); TURNIP (3): Aoid, Imported Cabbageworm, Cabbage Looper - use 1 to 2 pts.



CELERY (7): Spider Mite Aphids - use 1 1/2 pts.
CUCUMBER (1); MELON (1); SQUASH (1): Spider Mite Aphids - use 1 1/2 pts. Do not apply unless plants are dry.
EGGPLANT (3): Spider Mite Aphids - use 1 pt. Lacebug - use 3 pts.
LETTUCE (LEAF 14) (HEAD 7): Aphids, leafhopper - use 2 pts.
ONIONS: Thrips - use 1 1/2 pts. Do not apply on green onions within 3 days of harvest.
PEAS (3): Pea Aphid - use 1 1/2 pts. per acre. Pea Weevil - use 1 1/2 to 2 pts. per acre. For Pea Weevil apply during early bloom before eggs are deposited. Do not apply within 7 days of harvest if forage will be fed to livestock.
PEPPERS (2); SPINACH (7): Aphids - use 1 pt.
TOMATOES (1): Aphids - use 2 pts. Spider Mite - use 1 1/2 pts.
ALFALFA, CLOVER: Grasshoppers, Aphids, Leafhoppers, Mites, Alfalfa weevil, Larvae, Clover Leaf Weevil - use 1 1/2 to 2 pts. per acre. Do not apply when plants are in bloom.
BARLEY (7); OATS (7); RYE (7); WHEAT (7): Armyworm - use 2 pts. per acre. English Gram Aphids, Greenbug - use 1 1/2 pts. per acre.

ORNAMENTALS: Aphids, Spider Mite, Whitefly, Mealybugs, Thrips, Japanese Beetle Adults, Scurfy Scale, Four-Lined Leaf Bug, Tomahawk Plant Bug, Rose Leafhopper, European Pine Shoot Moth - use 1 1/2 pts. Birch Leafminer, Boxwood Leafminer, Bagworms, Tent Caterpillar, Azalea Scale, Pine Leaf Scale, Magnolia Scale, Oak Kermes, Fletcher Scale, use 2 pts. Monterey Pine Scale, Soft Scale - use 2 1/2 pts. Pine Needle Scale - use 4 pts. Use of this material may cause injury on certain ferns, including Boston Maidenhair and Pines, as well as on some species of Cressets and Canebrake Juniper.

DIRECTIONS FOR LIVESTOCK USE

Apply as a complete coverage spray. Begin applications when insects first appear and repeat at 2 week intervals if needed. Observe use limitations. Avoid contamination of feed, food containers and water troughs.
CATTLE (BEEF AND NON-MILKING): Lice - use 1 gallon per 100 gallons of water or 8 1/2 ounces per 5 gallons of water. One treatment may be sufficient. Repeat only if needed. Ticks - use 1 to 2 gallons per 100 gallons of water or 6 1/2 to 13 ounces per 5 gallons of water. Hornflie - use 1 to 1 1/2 gallons per 100 gallons of water or 8 1/2 to 10 ounces per 5 gallons of water. Do not treat calves under 1 month of age. Do not apply to lactating dairy animals, or to non-lactating dairy animals within 2 weeks of freshening.
HOGS: Lice - use 1 gallon per 100 gallons of water or 8 1/2 ounces per 5 gallons of water. Spray animals, pens and litter. One treatment may be sufficient. Repeat only if needed.
SHEEP, GOATS: Lice, Ticks, Keds - use 1 gallon per 100 gallons of water or 8 1/2 ounces per 5 gallons of water. Spray animals thoroughly. Repeat application after

2 or 3 weeks if needed. Do not apply to milk goats. Do not treat animals under one month of age.
POULTRY (DIRECT APPLICATION): Northern Fowl Mite, Poultry Lice - use 2 tablespoons per 1 gallon of water per 100 to 150 birds and spray on birds.
POULTRY HOUSE: Northern Fowl Mite, Chicken Red Mite, Poultry Lice, Fleas - use 4 tablespoons per 1 gallon of water. Poultry Ticks - use 6 to 7 ounces per 1 gallon of water. Apply spray liberally to floor, walls, ceiling, roosts, nests and adjacent areas. Force spray into all cracks and crevices.
ROOST PAINT: Chicken Red Mite, Poultry Lice - use 2 to 7 ounces per 1 gallon of water. Brush on roosts at the rate of 1 pint per 150 feet of roosts. Repeat as necessary.

DIRECTIONS FOR MOSQUITO CONTROL USE

MOSQUITO LARVAE: Use 13 ounces per acre in sufficient water or oil to obtain coverage when applied by air or ground equipment. Repeat application as necessary. Do not apply oil-based sprays to valuable ornamental plants as injury may occur. When applying this material by aircraft, mix the recommended amount with sufficient water to provide one to ten gallons of finished spray per acre. Care should be taken that this material is not allowed to drift onto neighboring crops or non-crop areas. Observe the fish warning statement on the label.

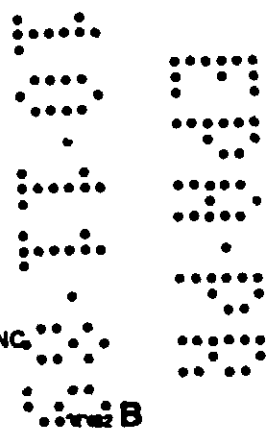
DIRECTIONS FOR FLY CONTROL USE

Use in and around building which house domestic animals, around yards and around homes. Apply to surfaces where flies alight or congregate, such as walls, stanchions, barn windows, fence and garbage cans. Repeat application as required. Eliminate fly breeding sites. Do not apply sprays to freshly white washed surfaces for a period of 14 days. Do not contaminate milk, milk equipment or water.
WATER DILUTED FLY SPRAY: use 2 gallons per 100 gallons of water. Spray the diluted mix at the rate of 1 gallon per 1000 square feet on painted surfaces or 2 gallons per 1000 square feet on unpainted surfaces. **BAIT SPRAYS:** use 2 gallons of MALATHION 55 PREMIUM GRADE with 2 gallons of unsulfurized molasses or corn syrup, or 20 pounds of sugar per 100 gallons of water. (Use 3 gallons with 40 pounds of sugar per 100 gallons of water if the fly population is severe.) Sugar, unsulfurized molasses or corn syrup have been found in most cases to prolong the insecticidal activity of Malathion against flies.
DEALERS SHOULD SELL IN ORIGINAL PACKAGES ONLY.
USAGE CAUTION: DO NOT USE IN UNDILUTED FORM. DO NOT ALLOW THIS MATERIAL TO DRIFT ONTO NEIGHBORING CROP OR NON-CROP AREAS OR USE IN A MANNER OR AT A TIME OTHER THAN IN ACCORDANCE WITH DIRECTIONS, BECAUSE PLANT INJURY, EXCESSIVE RESIDUES OR OTHER UNDESIRABLE RESULT MAY OCCUR.

NOTICE

Buyer assumes all risk of use, storage, or handling of this product when not in strict accordance with directions given hereon.

FORMULATED FOR
PLATTE CHEMICAL COMPANY, INC.
 150 SO. MAIN STREET
 FREMONT, NEBRASKA 68025



**SUPPLEMENTAL LABELING
APPLICATION THROUGH IRRIGATION SYSTEMS—CHEMIGATION**



**MALATHION 55
INSECTICIDE
PREMIUM GRADE**

EPA REG. NO. 34704-3

FOR CROP USES LISTED ON PRODUCT LABEL.

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.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

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.

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.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Platte Chemical Company does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must 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, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

SPRINKLER CHEMIGATION

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

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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.

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.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water.

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use.

Follow precautionary statements and directions for all tank-mix products.

On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and stage of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues.

Meter this product into the irrigation water uniformly during the period of operation.

Do not overlap application. Follow recommended label rates, application timing, and other directions and precautions for crop being treated.

Continuous mild agitation of pesticide mixture may be needed to insure a uniform application, particularly if the supply tank requires a number of hours to empty.

ALL APPLICABLE RESTRICTIONS, PRECAUTIONS, AND DIRECTIONS ON THE EPA REGISTERED PRODUCT LABEL MUST BE FOLLOWED.

**FORMULATED FOR
PLATTE CHEMICAL COMPANY, INC.
150 SO. MAIN STREET FREMONT, NEBRASKA 68025**