

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



OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

SEP 21 2010

Nik Ramswick
Regulatory Affairs
Universal Cooperatives, Inc.
1300 Corporate Center Curve
Eagan, MN 55121

Subject: Submission of amended labeling per Use Deletion Guidance 12/30/08 and revised
May 2009 Malathion RED Label Table
EPA Reg. No. 1386-124
Submissions dated November 19, 2009

Dear Ms. Ramswick:

The proposed labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you submit two copies of your final printed label before you release the product for shipment. Products shipped after 18 months from the date of this amendment or the next printing of the label which ever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

Additional label corrections may be needed pending submittal and review of your responses to the Malathion RED.

A stamped copy is enclosed for your records. If you have any questions, please contact Marianne Lewis at (703) 308-8043 or lewis.marianne@epa.gov.

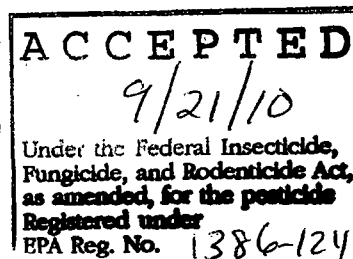
Regards,

Venus Eagle
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

MALATHION-5

EMULSIFIABLE CONCENTRATE



KEEP OUT OF REACH OF CHILDREN

CAUTION

REFER TO INSIDE OF LABEL BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS, WORKER PROTECTION STATEMENTS, DIRECTIONS FOR USE, AND STORAGE AND DISPOSAL INSTRUCTIONS.

ACTIVE INGREDIENT:

Malathion: O,O-dimethyl phosphorodithioate
of diethyl mercaptosuccinate

57.00%

INERT INGREDIENTS*

43.00%

Total

100.00%

Contains 5 Pounds of Malathion Per Gallon.

*Contains Xylene Range Aromatic Solvent.

EPA Reg. No. 1386-124
EPA Est. No. 1386-OH-1

Net Contents:
2 1/2 Gallons

UNIVERSAL COOPERATIVES, INC., 1300 Corporate Center Curve, Eagan, MN 55121 (651-239-1000)

FIRST AID ORGANOPHOSPHATE	
If In Eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If Inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If On Skin or Clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
NOTE TO PHYSICIAN: Malathion is an acetyl cholinesterase inhibitor. Atropine is antidotal. Contains petroleum distillate. May pose an aspiration pneumonia hazard.	
HOT LINE NUMBER	
For 24 Hour Medical Emergency Assistance (Human or Animal) call 1-800-308-1241 or for Chemical Emergency Assistance (Spill, Leak, Fire or Accident) call CHEMTREC at 1-800-424-9300.	

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

Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin, eyes and clothing. Avoid contamination of feed and foodstuffs.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are **barrier laminate, butyl rubber, nitrile rubber or viton**. If you want more options, follow the instructions for category F on an EPA chemical-resistance category selection chart.

Mixers, and loaders, applicators, flaggers, and other handlers must wear:

- Long sleeved shirt and long pants, shoes plus socks.
- Chemical-resistant gloves.

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

ENGINEERING CONTROLS: Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

ENVIRONMENTAL HAZARDS for TERRESTRIAL APPLICATIONS

This pesticide is toxic to aquatic organisms, including fish and invertebrates.

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff after application. Use care when applying in or to an area which is adjacent to any body of water, and do not apply when weather conditions favor drift from target area. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

This pesticide 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 while bees are actively visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Combustible: 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. **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.**

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 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 the restricted-entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop.

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
- Shoes plus socks, and
- Chemical-resistant gloves made of any waterproof material

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or nurseries.

Do not enter or allow others to enter until sprays have dried.

Empty Grain Storage Facilities: Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surface until spray have dried.

Apply when pests first appear. Apply the following rates: by ground, apply a minimum of 200 gallons per acre on stone fruits and nuts; a minimum of 300 gallons per acre on pome fruits; a minimum of 200 gallons per acre on bush and vine fruits and a minimum of 10 gallons per acre on vegetable and row crops. By air, a minimum of 2 gallons per acre on small fruits and tree crops. Use the designated amount in 100 gallons of water unless otherwise specified.

DILUTION RATE FOR SMALL APPLICATION EQUIPMENT: The dosage rate of 2 pints per acre is equivalent to approximately 1/2 teaspoon per 1,000 square feet, which usually can be applied to that area in 3 gallons of water in a typical compressed air sprayer.

AMOUNT IN 100 GALLONS

1 Pint
1 Gallon

AMOUNT IN 1 GALLON

1 Teaspoon
2 1/2 Tablespoons

Mix this concentrate with water as directed below for application as a spray. Make thorough full-coverage applications of the spray and repeat applications as stated in all cases. Do not combine emulsifiable liquids with wettable powders in the same spray tank unless previous use of the materials being combined has proven them to be physically compatible.

PRECAUTIONS AND RESTRICTIONS

- Do not apply this product through any type of irrigation system.
- Do not apply to golf course turf.
- Do not apply as a broadcast spray to residential lawns.

BUFFER ZONES FOR AERIAL APPLICATION:

When making a Non-ULV application with aerial application equipment, a minimum buffer zone of 25 feet must be maintained along any water body.

When making a ULV application with aerial application equipment, a minimum buffer zone of 50 feet must be maintained along any water body.

All ULV aerial formulations other than those intended for use as a Wide Area Mosquito Adulticide, must be packaged in closed mixing and loading systems.

SPRAY DRIFT REQUIREMENTS

Observe the following requirements when spraying in the vicinity of aquatic areas such as, but not limited to lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds.

DROPLET SIZE

Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

For groundboom and aerial applications, use only medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles, or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

WIND DIRECTION AND SPEED

Make aerial or ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

TEMPERATURE INVERSION

Do not make aerial or ground applications into areas of temperature inversions.

Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

ADDITIONAL REQUIREMENTS FOR GROUND APPLICATIONS

Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided. For groundboom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

ADDITIONAL REQUIREMENTS FOR AERIAL APPLICATIONS

For aerial applications, the spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or 90% rotor diameter.

Aerial applicators must consider flight speed and nozzle orientation in determining droplet size.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

FRUITS, NUTS AND BERRIES

BLUEBERRIES: Japanese Beetle – Use 1 1/2 pints per acre. Cherry Fruitworm, Cranberry Fruitworm – Use 1 1/2 pints per acre. Plus Curculio, Sharp-nosed Leafhopper – Use 2 pints per acre. **DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 5 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

BRAMBLES (BLACKBERRIES, BOYSENBERRIES, LOGANBERRIES, and RASPBERRIES): Mites, Thrips, Leafhoppers, Japanese Beetle Adults, Aphids, and Rose Scale – Use 3 pints per acre. **DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

CANTALOUPE: Pickleworm, Leafhoppers – Use 1 1/2 pints per acre. Aphids, Spider Mites – Use 1 1/2 pints per acre. Cucumber Beetles, Leafminers – Do not apply unless plants are dry. Use 2 pints per acre. **DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

CHERRIES (Sweet and Tart): Black Cherry Aphid, Fruittree Leafroller – Use 1 1/2 pints per acre. Cherry Fruit Fly, Eyespotted Bud Moth – Use 1 pint per acre. Injury may occur on certain varieties of Sweet Cherries particularly in the Northwest. **DO NOT APPLY WITHIN 3 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 4. THE MINIMUM RETREATMENT INTERVAL IS 3 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

GRAPES: Mealybugs – Use 1 1/2 pints per acre. Leafhoppers, Spider Mites – Use 3 pints per acre. European Fruit Lecanium – Make full coverage applications when newly hatched nymphs are migrating over vines, usually shortly after bloom. Use 3 pints per acre. Emulsion may cause injury to foliage on some varieties (Ribier, Italia, Cardinals, Almeria). **DO NOT APPLY WITHIN 3 DAYS OF HARVEST. DO NOT APPLY AS A POSTHARVEST USE ON RAISIN DRYING TRAYS. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 14 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 72 HOURS FOR GIRDLING AND TYING, AND 24 HOURS FOR ALL OTHER ACTIVITIES.**

HONEYDEWS: Cucumber Beetles, Leafminers – Do not apply unless plants are dry. Use 1 1/2 pints per acre. Pickleworm, Leafhoppers – Use 1 1/4 to 1 1/2 pints per acre. Aphids, Spider Mites – Use 1 1/2 pints per acre. **DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

MELONS (CASABAS, CRENSHAW, HONEYBALLS, MUSKMELONS, PERSIANS): Pickleworm, Leafhoppers – Use 1 1/4 to 1 1/2 pints per acre. Aphids, Spider Mites – Use 1 1/2 pints per acre. Cucumber Beetles, Leafminers – Do not apply unless plants are dry. Use 1 1/2 pints per acre. **DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

PEACHES: Oriental Fruit Moth, Aphids – Use 2 pints per acre. For Oriental Fruit Moth control, apply at petal fall and every 11 to 14 days not to exceed 3 applications. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 11 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 24 HOURS.

PECANS: Pecan Bud Moth, Pecan Leaf Casebearer, Pecan Nut Casebearer, Pecan Phylloxera – Use 1 1/2 pints per acre. Aphids, Mites - Use 1 to 2 pints per acre. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 24 HOURS.

STRAWBERRIES: Aphids, Spider Mites, Spittlebug, Strawberry Leafroller, Leafhoppers and Whitefly – Apply 1 1/2 to 3 pints per acre. DO NOT APPLY WITHIN 3 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 4. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.

TANGERINES: California Red Scale, Yellow Scale, Purple Scale, Black Scale, Soft Scale, Citrocicola Scale - Use 1 1/2 pints per acre. Red Scale, Purple Scale – Use 1 1/4 to 2 pints per acre. Thrips – Do not apply during full bloom. Use 1 1/4 pints per acre. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. **TANGERINE (California Only):** THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 1. THE RESTRICTED-ENTRY INTERVAL (REI) IS 72 HOURS. **TANGERINE (U.S., except California):** THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 1. THE RESTRICTED-ENTRY INTERVAL (REI) IS 72 HOURS.

WALNUTS: Aphids, Mites – Use 1/5 to 2/5 pint per acre. Walnut Husk Fly – Use 2/5 to 3/5 pint per 100 gallons water per acre. MAY BE HARVESTED ON DAY OF APPLICATION. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 24 HOURS.

WATERMELONS: Aphids, Spidermites – Use 1 1/2 pints per acre. Pickleworm, Leafhoppers – Use 2 pints per acre. Cucumber Beetles, Leafminers – Do not apply unless plants are dry. Use 2 pints per acre. DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 4. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.

VEGETABLE CROPS

BEETS [GARDEN (including tops) (Do not apply to Sugar Beets)]: Aphids – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.

BROCCOLI: Aphids, Imported Cabbage Worm, Cabbage Looper – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 3 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 48 HOURS.

BRUSSELS SPROUTS: Aphids, Imported Cabbage Worm, Cabbage Looper – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 48 HOURS.

CABBAGE: Aphids, Imported Cabbage Worm, Cabbage Looper – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 6. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 48 HOURS.**

CARROTS (Roots): Aphids – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 24 HOURS.**

CAULIFLOWER: Aphids, Imported Cabbage Worm, Cabbage Looper – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 48 HOURS.**

CELERY: Aphids, Leafhoppers – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 24 HOURS.**

CUCUMBERS: Aphids, Cucumber Beetles, Leafhoppers – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 1 DAY OF HARVEST. APPLY TO CUCUMBERS ONLY WHEN THE FOLIAGE IS DRY. THE RESTRICTED-ENTRY INTERVAL (REI) IS 24 HOURS.**

EGGPLANT: Aphids, Leafhoppers – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **DO NOT APPLY WITHIN 3 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 4. THE MINIMUM RETREATMENT INTERVAL IS 5 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

KALE: Aphids, Cabbage Looper, Imported Cabbage Worm – Begin applications when insects first appear. Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 5 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

LETTUCE (Head): Aphids, Cabbage Looper, Imported Cabbage Worm – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 6 DAYS. DO NOT APPLY WITHIN 14 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 24 HOURS.**

LETTUCE (Leaf): Aphids, Cabbage Looper, Imported Cabbage Worm – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 5 DAYS. DO NOT APPLY WITHIN 14 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 24 HOURS.**

MUSTARD GREENS: Aphids, Cabbage Looper, Imported Cabbage Worm – Begin applications when insects first appear. Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 5 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

OKRA: Aphids – Begin applications when insects first appear. Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 5. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

ONIONS (Bulb and Green): Thrips – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 3 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

PEAS (Succulent): Aphids, Peaweevil – Begin applications when insects first appear. Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 3 DAYS OF HARVEST. DO NOT ALLOW LIVESTOCK TO GRAZE OR FEED ON TREATED PEA FOLIAGE (VINES/FORAGE AND STRAW/HAY). THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

PEPPERS: Aphids, Pepper Maggot – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 5 DAYS. DO NOT APPLY WITHIN 3 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

POTATOES (White, Sweet): Aphids, Mealybug – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

PUMPKINS: Aphids, Cucumber Beetles, Leafhoppers, Mites, Pickleworm, Squash Vine Borer – Begin applications when insects first appear. Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 3 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

RADISHES: Aphids – Begin applications when insects first appear. Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

SPINACH: Aphids – Begin applications when insects first appear. Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

SQUASH (Summer): Aphids, Cucumber Beetles, Leafhoppers – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 24 HOURS.**

SQUASH (Winter): Aphids, Cucumber Beetles, Leafhoppers – Begin applications when insects first appear. Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

TOMATOES: Aphids, Drosophila, Leafhoppers – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 4. THE MINIMUM RETREATMENT INTERVAL IS 5 DAYS. DO NOT APPLY WITHIN 1 DAY OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

TURNIP (Greens): Aphids – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 5 DAYS. DO NOT APPLY WITHIN 3 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

TURNIP (Roots): Aphids – Begin applications when insects first appear. Use 1 1/2 to 2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL (REI) IS 7 DAYS. DO NOT APPLY WITHIN 3 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

FIELD CROPS

ALFALFA: Aphids, Spotted Alfalfa Aphid, Leafhoppers, Spider Mites, Spittlebug, Alfalfa Weevil Larvae – Use 1 1/2 to 2 pints per acre, in the amount of water required for uniformly thorough coverage. Begin applications when insect first appear. Apply to alfalfa in bloom only in the evening or early morning when bees are not working in the field and are not hanging on the outside of hives. May be grazed or harvested on day of application. **THE MAXIMUM NUMBER OF APPLICATIONS IS 2 PER CUTTING. THE MINIMUM RETREATMENT INTERVAL IS 14 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

CLOVER: Aphids, Grasshoppers, Leafhoppers, Spider Mites, Alfalfa Weevil Larvae, Spittlebug – Use 1 1/2 to 2 pints per acre. Apply to plants in bloom only in the evening or early morning when bees are not working in the field and are not hanging on the outside of hives. **DO NOT APPLY WITHIN 14 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 1. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

COTTON: Boll Weevil – For control of worms and weevils. Use 1 to 2 quarts per acre. **Desert Spider Mite, Cotton Aphids, Leafhoppers, White Flies, Cotton Leafworm, Brown Cotton Leafworm, Cotton Leaf Perforator, Thrips, Lygus Bugs** – Use 1 to 2 quarts per acre. **Fleahoppers** – Use 1 to 1 1/2 pints per acre. **Fall Armyworms, Grasshoppers, Garden Webworms** – Use 1 1/2 to 3 pints per acre. May be harvested on day of application. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 3. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 48 HOURS.**

GRASS CROPS (Forage, Hay): Grasshoppers, Leafhoppers – Use 1 1/2 to 2 pints per acre. **Armyworms** – Use 2 pints per acre. Apply when larvae are small. **DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 1. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

BARLEY, OATS, WHEAT: Cereal Leaf Beetle – Use 1 to 1 1/2 pints per acre. **Green Bugs, Grasshoppers** – Use 1 to 1 1/2 pints per acre. Make full coverage to hatching areas when nymphs are young. **Armyworms** – Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

GRAIN CROPS (Field Corn): Cereal Leaf Beetle – Use 1 to 1 1/2 pints per acre. **Green Bugs, Grasshoppers** – Use 1 to 1 1/2 pints per acre. Make full coverage to hatching areas when nymphs are young. **Armyworms** – Use 1 1/2 pints per acre. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE RESTRICTED-ENTRY INTERVAL (REI) IS 72 HOURS FOR DETASSELING, AND 12 HOURS FOR ALL OTHER ACTIVITIES.**

GRAIN SORGHUM: Greenbugs – Use 1 1/2 pints per acre. Make full coverage application. **DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

RICE (Not for ULV use): Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially. **Rice Leafminer** – Use 2 pints per acre. Make first application shortly after the first rice blades appear on the surface of the water. **Rice Stink Bugs** – Use 1 to 1 1/2 pints per acre. Apply by airplane in 2 gallons of water per acre during the early milk and dough stage of growing rice. **DO NOT APPLY WITHIN 7 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 7 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

SWEET CORN: Japanese Beetle – Use 1 1/2 pints per acre. Injury may occur in the whorl or to the silks. **Sap Beetle** – Use 1 1/2 pints per acre. Begin treatment when 10% of ears show silk. **DO NOT APPLY WITHIN 5 DAYS OF HARVEST. THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 5 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 72 HOURS FOR DETASSELING, AND 12 HOURS FOR ALL OTHER ACTIVITIES.**

OUTDOOR ORNAMENTAL PLANTS

To control the following on **ornamental herbaceous plants, ornamental and/or shade trees, ornamental non-flowering plants, ornamental woody shrubs and vines**, mix the indicated dosage with 100 gallons of water. Apply spray when the insects are first observed.

OYSTER SHELL SCALE – 1 pint. **APHIDS, SPIDER MITES, JAPANESE BEETLE ADULTS, LEAFHOPPERS, THRIPS, AND SCURFY SCALE** - 1 1/2 pints. **BIRCH LEAFMINER, BOXWOOD LEAFMINER, AZALEA SCALE, PINE LEAF SCALE, AND MAGNOLIA SCALE** – 2 pints. Do not use on Boston, Maidenhair, or Pteris ferns. Do not use on petunias. May cause injury to Crassula. **THE MAXIMUM NUMBER OF APPLICATIONS PER YEAR IS 2. THE MINIMUM RETREATMENT INTERVAL IS 10 DAYS. THE RESTRICTED-ENTRY INTERVAL (REI) IS 12 HOURS.**

MOSQUITO CONTROL

Do not apply to golf course turf. Do not apply to residential lawns as a broadcast spray.

OUTDOOR ADULT MOSQUITO CONTROL - To control adult mosquitoes in backyards, on ornamental shrubbery, and on lawns, use a 2% to 5% area or fog spray. For a 2% spray, dilute 1 part Malathion-5 Emulsifiable Concentrate with 28 parts of water, fuel oil, or diesel oil. For a 5% spray, **dilute 1 part of Malathion-5 Emulsifiable Concentrate with 11 parts of water, fuel oil, or diesel oil.** Apply water based spray uniformly, into and around the ornamental vegetation. Apply oil based fog to uniformly penetrate into and around the ornamental vegetation. Repeat applications as needed. Do not apply to areas where food or feed crops are growing. Do not apply oil mixture for fogging directly to ornamental plants.

MOSQUITO LARVAE CONTROL – For control of mosquito larvae in standing water (intermittently flooded areas, stagnant water, temporary rain pools), apply 13 fluid ounces of Malathion-5 Emulsifiable Concentrate per acre, mixed in sufficient water or oil to obtain even coverage when applied by air or ground equipment. Broadcast use only over intermittently flooded areas. Application may not be made around bodies of water where fish or shellfish are grown and/or harvested commercially. **NOTE:** Contamination of shallow, fish bearing waters may kill fish.

GRAIN PROTECTANT IN GRAIN ELEVATORS/SILOS

Before Storing Barley, Corn, Oats, Rye and Wheat in Grain Elevators/Silos – Since many of the insects which commonly infest grain in storage continue to live and breed in residues and debris, the bins, storage areas,

elevators, and handling equipment such as trucks and conveyors should be thoroughly cleaned before storing the new crop. Remove and burn all sweepings and debris. The ground outside should be kept free of debris since this material also breeds insects.

Before the new grain goes into storage, a spray made by mixing 1 gallon of this concentrate in 19 gallons of water (1 pint in 2 1/2 gallons) should be applied to walls, **floors and ceilings of grain elevators/silos**. Spray all surfaces to the point of runoff, making sure the spray is driven into joints, corners, cracks, and crevices where insects may be concealed.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Malathion-5 EC should be stored in the original unopened container in a secure dry place. Do not contaminate with other pesticides or fertilizers. The product should never be heated above 55° C (131° F), and should not be stored for long periods of time at a temperature in excess of 25° C (77° F).

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER DISPOSAL

Non-refillable Containers (1, 2 1/2, 30 and 55 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Non-refillable containers (equal to or less than 5 gallons): Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration.

Non-refillable containers (greater than 5 gallons): Do not reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least once complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. **If recycling or reconditioning is not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration.**

Pressure Rinse As Follows (All Sizes): Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container (250 gallon and Bulk): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

IMPORTANT: READ BEFORE USE

Read the entire Directions For Use and Warranty and Limitation of Damages before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions and Warranty and Limitation of Damages.

WARRANTY AND LIMITATION OF DAMAGES

Universal Cooperatives, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the complete Directions For Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW UNIVERSAL COOPERATIVES, INC. MAKES NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

To the extent consistent with applicable law Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this Warranty and Limitation of Damages which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.