



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

28293-
221

Date of Issuance:

4 MAR 1993

NOTICE OF PESTICIDE:
 x Registratio
 Reregistrat on

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Unicorn Emulsifiable
60-6

Name and Address of Registrant (include ZIP Code):

Unicorn Laboratories
1000 118th Avenue North
St. Petersburg, FL 33716

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Change the label by revising the EPA Registration Number to read, "EPA Reg. No. 28293-221".

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

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Date:

March 4, 1993

4 MAR 1993

UNICORN

EMULSIFIABLE 60-6

Multi-purpose Insecticide

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this product is
registered under E.P.A. Reg. No.

28293-221

For use on all growing crops, ornamentals, stored products,
livestock and fruit fly control on harvested
fruits and vegetables.

Use alone as a clean-up spray or a pre-harvest spray.

ACTIVE INGREDIENTS:

Pyrethrins.....	6.00%
Piperonyl butoxide, Technical*.....	60.00%

INERT INGREDIENTS:**.....	34.00%
	100.00%

* Equivalent to 48.00% (butylcarbityl) (6-propylpiperonyl, ether and 12.00% related compounds.

** Contains petroleum distillate

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Side/Back Panel for Additional Precautionary Statements.

NET CONTENTS:

MANUFACTURED BY:

Unicorn Laboratories
1000 118th Avenue North
St. Petersburg, FL 33716

EPA REG. NO. 28293-

EPA EST. NO. 28293-PL-1

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed, absorbed through the skin or inhaled. Causes eye irritation. Contains petroleum distillate. Do not induce vomiting because of aspiration pneumonia hazard. Avoid contact with skin, eyes and clothing. Wear goggles or face shield when mixing or loading. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid breathing vapors or spray mist. Avoid contamination of food and feedstuffs.

Do not apply space spray while food processing is underway. Cover or remove all food processing surfaces. Thoroughly wash all food processing surfaces before reuse. After spraying in bakeries, meat packing plants, food processing plants, etc., all benches, shelving, equipment, etc. where exposed food will be handled must be washed with an effective cleaning compound followed by a potable water rinse to remove all traces of contamination. Food processing operations do not have to be stopped while applying a wet spray with care and in accordance with the directions and cautions above in those establishments which do NOT operate under Federal meat, poultry, shell egg grading and egg products inspection programs.

Statement of Practical Treatment

IF SWALLOWED: Call a physician or poison control center immediately. Do not induce vomiting because of aspiration pneumonia hazard.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

IF ON SKIN OR CLOTHING: Remove contaminated clothing and wash before reuse. Wash skin with soap and warm water. Get medical attention if irritation persists.

IF INHALED: Remove victim to fresh air. Get medical attention if irritation persists.

Environmental Hazards

This pesticide is highly toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

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STORAGE AND DISPOSAL

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

STORAGE: Store in a cool, dry place. Keep container closed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill or by other procedures approved by State and Local authorities.

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 such a manner as to directly or through drift expose workers or other persons. The areas being treated must be vacated by unprotected persons. Do not enter treated areas until sprays have dried.

USED ALONE: This concentrate can be used also as a clean-up or a pre-harvest spray where other materials cannot be used because of residue restrictions. This product may be used up to and including day of harvest. Contains natural pyrethrins.

Apply 2 to 16 ounces per acre and repeat if required to maintain effective control. Use in sufficient water for thorough coverage of upper and lower leaf surfaces (maximum of 100 gallons of water per acre) unless otherwise noted. This product may be applied by air in no less than 2 gallons of water per acre and by ground in no less than 10 gallons of water per acre. It is recommended that the final spray mix be buffered to a PH of 5.5 - 7.0.

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

USED AS A TANK MIX WITH OTHER INSECTICIDES: This product may be combined with other insecticides and acaricides where resistance may be a problem and to provide flushing of insects from hiding and into contact with other spray residues. This application should conform to accepted use precautions and directions for both products.

This concentrate is relatively non-toxic to honey bees. To avoid possible harm to honey bees, it is advisable to apply in the early morning or late evening hours.

GROWING CROPS (OUTDOORS AND IN GREENHOUSES):

ROOT AND TUBER VEGETABLES: Including (but not limited to) Arracacha, Arrowroot, Purple Arrowroot, Japanese Artichoke, Jerusalem Artichoke, Beets, Sugar Beets, Edible Burdock, Carrots, Cassava (bitter or, sweet), Celeriac (celery root), Chervil (turnip-rooted), Chicory, Chuffa, Ddsheen, Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip, Potato, Radish, Japanese Radish (Daikon), Rutabaga, Salsify, Black Salsify, Spanish Salsify, Sweet Potato, Tanier, Tarrow Root, Turmeric, Turnip, Yam (true), Yam Bean.

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LEAVES OF ROOT AND TUBER VEGETABLES: Including (but not limited to) Beet, Sugar Beet, Edible Burdock, Carrot, Cassava (bitter or sweet), Celeriac (celery root), Chervil (turnip-rooted), Chicory, Dasheen, Parsnip, Radish, Japanese Radish (Daikon), Rutabaga, Black Salsify, Sweet Potato, Tanier, Turnip, Yar (true).

BULB VEGETABLES: Including (but not limited to) Garlic, Leek, Onion (bulb and green), Shallot.

LEAFY VEGETABLES: Including (but not limited to) Amaranth (leafy amaranth, Chinese Spinach, Tampala), Arrugula, Celery, Celtuce, Chervil, Cilantro, Corn Salad, Chrysanthemum (edible leaved), Chrysanthemum (garland), Cress (garden), Upland Cress (yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Fennel (Florence), Lettuce (head and leafy), Orach, Parsley, Purslane (garden & winter), Rhubarb, Spinach, Fine Spinach (Melabar, Ceylon), Spinach (New Zealand), Swiss Chard.

BRASSICA (COLE) LEAFY VEGETABLES: Including (but not limited to) Broccoli, Chinese Broccoli (Gai Lon), Broccoli raab (Rapini), Brussel Sprout, Cabbage, Chinese Cabbage (Bok Choy, Napa), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Collards, Kale, Kohlrabi, Mustard Greens, Rape Greens.

LEGUME VEGETABLES (SUCCULENT OR DRIED): Including (but not limited to) Adzuki Beans, Field Beans, French Beans, Kidney Beans, Lima Beans, Moth Beans, Mung Beans, Navy Beans, Pinto Beans, Rice Beans, Runner Beans, Snap Beans, Tepary Beans, Urd Beans, Wax Beans, Asparagus Beans, Black-eyed Peas, Catjang, Chinese Longbeans, Cowpeas, Chowder Peas, Southern Peas, Yard-Longbeans, Broad Beans (Fava Beans), Chick Peas (Garbanzo Beans), Guar, Jackbean (Sword Bean), Lab Lab Beans (Hycacanth Bean), Lentils, Peas (Garden peas, field peas, sugar peas), Pigeon Peas, Soybeans.

FOLIAGE OF LEGUME VEGETABLES: Including (but not limited to) plant part of any legume vegetable included in the legume vegetable group that will be used as animal feed including any variety of Beans, Field Peas, Soybeans.

FRUITING VEGETABLES: Including (but not limited to) Eggplant, Ground Cherry, Okra, Pepinos, Pepper (Bell Pepper, Chili Peppers, Cooking Peppers, Pimentos, Sweet Peppers), Tomatillo, Tomatoes.

CUCURBIT VEGETABLES: Including (but not limited to) Balsam Pear (Bitter Melon), Chinese Waxgourd, Citron Melong, Cucumber, Gherkin, Edible Gourds, Melons (including hybrids, Cantaloupe, Casaba, Crenshaw, Honeydew Melons, Honey Balls, Mango Melon, Muskmelon, Persian Melon), Pumpkin, Squash (summer & winter), Watermelon (including hybrids).

CITRUS FRUIT: Including (but not limited to) Calamondin, Citrus Citron, Citrus Hybrids, Grapefruit, Kumquats, Lemon, Limes, Mandarin (Tangerine), Orange (sweet & sour), Pummelo, Satsuma Mandarin.

POME FRUITS: Including (but not limited to) Apple, Crabapple, Loquat, Pear, Oriental pear, Quince.

STONE FRUITS: Including (but not limited to) Apricot, Cherry (sweet & sour), Nectarine, Peach, Plum, Prune, Chickasaw Plum, Damson Plum, Japanese Plum.

SMALL FRUITS AND BERRIES: Including (but not limited to) Blackberry, Blueberry, Boysenberry, Cranberry, Currant, Dewberry, Elderberry, Gooseberry, Grape, Huckleberry, Loganberry, Olallie Berry, Raspberry (black & red), Strawberry, Youngberry.

SUBTROPICAL FRUITS: Including (but not limited to) Avocado, Banana, Carob, Barbados Cherry, Cherimoya, Dates, Feijoa, Figs (Adriatic, Calimyrna, Kadots, Black Mission, California Brown Turkey, Brunswick), Guava, Kiwifruit, Lychee, Mango, Papaya, Passion Fruit, Persimmon, Pineapple, Pomegranate.

TREE NUTS: Including (but not limited to) Almond, Beech Nut, Brazil Nut, Butter Nut, Cashew, Chestnut, Chinguapin, Filbert (Hazelnut), Hickory Nut, Japanese Horsechestnut, Macadamia Nut (Bushnut), Pecan, Pistachio, Walnut (Black & English).

CEREAL GRAINS: Including (but not limited to) Barley, Buckwheat, Corn, Millet (proso & pearl), Oats, Popcorn, Rice, Rye, Sorghum (Milo), Teosinte, Triticale, Wheat, Wild Rice.

GRASS FORAGE, FODDER AND HAY: Including (but not limited to) Bermuda Grass, Blue Grass, Bromegrass, Fescue Grass, any grass, Gramineae Family, (either green or cured), Barley, Buckwheat, Corn, Millet (proso & pearl), Oats, Popcorn, Rice, Rye, Sorghum (Milo), Teosinte, Triticale, Wheat, Wild Rice, that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage.

NON-GRASS ANIMAL FEEDS: Including (but not limited to) Alfalfa, Velvet Bean, Clover, Kudzu, Lespedeza, Lupine, Sainfoin, Trefoil, Vetch, Crown Vetch, Milk Vetch.

ORIENTAL VEGETABLES: Including (but not limited to) Japanese Artichoke, Chinese Broccoli (Gai Lon), Chinese Cabbage (Bok Choy, Napa), Chinese Mustard Cabbage (Sai Choy), Cilantro, Dasheen, Ginger, Ginseng, Chinese Longbeans, Mung Beans, Citron Melon, Balsam Pear (Bitter Melon), Japanese Radish (Daikon), Chinese Spinach, Chinese Waxgourd.

HERBS AND SPICES: Including (but not limited to) Anise, Balm, Basil, Borage, Burnet, Camomile, Caraway, Carnip, Chives, Clary, Coriander, Costmary, Cumin, Curry Leaf, Dill, Fennel (Italian & Sweet), Fenugreek, Horehound, Hyssop, Marigold, Marjoram (Sweet & Wild), Mint, Nasturtium, Oregano, Pennyroyal, Rosemary, Rue, Sage, Savory (Winter & Summer), Sweet Bay (Bay Leaf), Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood.

ADDITIONAL CROPS: Including (but not limited to) Artichoke, Asparagus, Chayote, Coffee, Cotton, Hops, Jojoba, Ornamental Turf Grass, Sesame, Sunflower (leaves and seed), Tea.

ORNAMENTALS: Including (but not limited to) African Violet, Aster, Azalea, Begonia, Calceolaria, Calendula, Calla, Camellia, Carnation, Cineraria, Chrysanthemum, Cypress, Daffodil, Dahlia, Dogwood, Elm, Eucalyptus, Fern, Ficus, Geranium, Gladiolus, Gypsophila, Holly, Juniper, Lily, Marigold, Oak, Palm, Peony, Petunia, Philodendron, Pine, Roses, Snapdragon, Sweet Pea, Tulips, Viburnum, Wandering Jew, Yew, Zinnia.

FOR THE CONTROL OF INSECTS: Including (but not limited to) Ants, Aphids, Armyworms, Asparagus Beetle, Blister Beetles, Cabbage Looper, Caterpillars, Cockroaches, 12-spotted Cucumber Beetle, Colorado Potato Beetles, Corn Earworm, Crickets, Cross-striped Cabbageworm, Cucumber Beetles, Deer Fly, Diamondback Larvae, Fireworms, Flea Beetles, Fruit Flies, Fruittree Leafroller, Grape Leafhopper, Green Peach Aphids, Greenhouse Thrips, Gypsy Moth (adults & larvae), Harlequin Bug, Heliothis sp., Hornets, Horn Fly, Horse Fly, House Fly, Imported Cabbageworm, Leafhopper, Leafrollers,

Leafhoppers, Lice, Mexican Bean Beetle, Mosquitoes, Potato Leafhopper, Psyllids, Silverfish, Skippers, Stable Fly, Stink Bugs, Tabanids, Thrips, Vinegar Flies, Wasps, Webworms, Whiteflies and Yellowjackets.

FOR USE AROUND HOMES AND OTHER BUILDINGS: In grassy undeveloped areas use this concentrate at 1 part to 59 parts water to control foraging fire ants. Also spray grassy areas around yard borders liberally to control ticks that may carry Lyme disease.

FOR USE ON HARVESTED FRUITS AND VEGETABLES: To control Drosophila spp. and tephritid fruit flies dilute this concentrate at the rate of 1 part with 600 parts water (1 pint per 75 gallons or 1 tablespoonful with 2 gallons water). Thoroughly mix the emulsion in the spray tank and treat as follows:

- 1) Apply liberally to fruits and vegetables in baskets, on trucks and in plants. Use sprayers at a high pressure for applying at the rate of five or six pints of diluted spray to a 2 ton load of produce. Direct the spray for maximum coverage of the baskets or hampers. It not only kills the flies, but the emulsion loosens any dead flies so they are readily washed from the fruit.
- 2) Spray the raw stock stacked in the yard.
- 3) Dip baskets in the diluted spray, after dumping the produce, to kill adhering larvae and pupae.

FOR USE IN CANNERIES: The entire space inside of the cannery should be sprayed after washing and cleaning up and just before bringing produce into it, with this product diluted 1 part to 29 parts of water (1 quart with 7.5 gallons water) up to 1 part to 11 parts of water (1 quart with 3 gallons water). Use 1 gallon of the spray per 750 square feet, directing it on walls, ceiling, and floors paying special attention to forcing the spray into all cracks and crevices for the control of ants, roaches, silverfish, crickets, spiders and cheese mites. This same dilution used as a space spray will give excellent control of fruit flies, house flies, hornets, grain moths, gnats, mosquitoes, and skipper flies. Use one ounce dilute spray per 1000 cubic feet of space. Do not spray while the plant is in operation as dead flies may fall into containers or the products being processed.

FOR USE IN FOOD AND NONFOOD AREAS OF FOOD PROCESSING PLANTS, INDUSTRIAL INSTALLATIONS, BAKERIES, RICE AND WHEAT MILLS, RESTAURANTS, TABACCO WAREHOUSES, GRAIN ELEVATORS AND WAREHOUSES: To kill flying insects such as fruit flies, house flies, hornets, wasps, grain moths, gnats, mosquitoes and skipper flies, dilute this concentrate at the rate of 1 part with 29 parts water (1 quart with 7.5 gallons water) up to 1 part to 11 parts water (1 quart with 3 gallons water). Use at the rate of 1/2 to 1 ounce of dilute spray per 1000 cubic feet of space. Direct the space treatment upward and whenever practical, keep doors and windows closed for at least 10 minutes after application. The use of this product in food processing or food handling establishments should be confined to time periods when the plant is not in operation. Food should be covered or removed during treatment or thoroughly cleaned before using.

Where oil residues are not undesirable, this product can be diluted at the rate of 1 part to 29 parts up to 1 part to 11 parts in deodorized base oil instead of water and applied as a space spray with any good type applicator such as mechanical or ULV fogger capable of producing particles of aerosol size.

FOR USE ON STORED PRODUCTS: This concentrate can be used at the rate of 1 part to 29 parts up to 1 part to 11 parts water or deodorized base oil can be safely used on rice, grain nuts, dried fruit, beans, almond nutmeat and shells, walnut nutmeat and shells, pistachio, dried prunes, dried apricots, raisins, figs, wheat, oats, corn, barley, rye, tobacco and peanuts held in storage for control of the accessible stages of Almond Moths, Angoumois Grain Moths, Cadelle Beetles, Cigarette Beetles, Confused Flour Beetles, Flat Grain Beetles, Granary Weevils, Indian Meal Moths, Red Flour Beetles, Rice Weevils, Rusty Grain Beetles, Sawtoothed Grain Beetles, Square Necked Grain Beetles, and Tobacco Moths.

FOR USE ON SWEET POTATOES IN STORAGE: For control of fruit flies (*Drosophila* sp.) dilute this concentrate at 1 part to 19 parts water. Apply as a space fog with a mechanical fogger capable of producing particles of aerosol size at the rate of 1 gallon diluted spray per 100,000 cubic feet of space.

FOR USE IN STORAGE SITES: This concentrate can be used in warehouse bins and trucks, cargo ships, mills, bin hoppers, elevators and conveying equipment as a clean up prior to using them for storage. In mills and elevators, all grain infested accumulations should be removed from the bin hoppers. All storage areas and conveying equipment should be thoroughly cleaned by sweeping out the waste grain, cobwebs and other debris from the walls and rafters as well as the floor and door frames with special attention to material lodged in the cracks and crevices. All of the debris should be removed and burned to kill eggs and insects that might be present.

For farms, particular attention should be given to cleaning up around the used feed and grain bags, grain residues from wagons, harvesting equipment and feed troughs, Newly harvested grain should not be placed in the same bin with carry-over grain and all carry-over grain stocks that are not treated with grain protectant should be fumigated. These cleaning operations should be done within two or three weeks before harvest.

After above sanitation measures have been employed, spray all areas prior to use for storage with 1 part to 29 parts water (1 quart with 7.5 gallons water) up to 1 part to 11 parts (1 quart with 3 gallons water). Apply at the rate of one gallon per 750 square feet on walls, floors, ceilings and partition boards of bins, paying particular attention to forcing the spray into all cracks and crevices.

FOR USE AS A GRAIN PROTECTANT: This concentrate when diluted with water and sprayed directly on grains will effectively protect the grain against grain storage insects for a full season or approximately 8 months. Dilute at the rate of 1 part to 29 parts water (1 quart with 7.5 gallons water). Thoroughly mix the emulsion and apply at the rate of 4 to 5 gallons per 1000 bushels of grain as it is carried along a belt or as it enters the auger or elevator. This concentrate may be used in combination with a registered fumigant for use on heavily infested stored products.

Monthly inspection should be made. If the top 2 or 3 inches are found to be infested, re-treat applying at the rate of 1 to 2 gallons of diluted material per 1000 bushels of stored product.

FOR USE ON LIVESTOCK:

- 1) To kill and repel horn flies, house flies, mosquitoes and gnats, dilute at the rate of 1 to 2 fluid ounces per gallon of water and apply to wet the hair thoroughly with particular attention to topline, underline, flanks, withers and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers.

2) To kill and repe. stable flies, horse flies, and deer flies, dilute at the rate of 2 to 3 fluid ounces per gallon of water and apply at a quart per adult animal to wet the hair thoroughly with particular attention to the legs, flanks, barrel, topline and other body areas commonly attacked by these flies. Repeat treatment each week as needed.

3) For effective control of biting and sucking lice on cattle, horses, sheep, goats and hogs, dilute at the rate of 1 quart with 75 gallons of water (1 fluid ounce with 2 gallons) and spray to thoroughly wet the hair of the animal including the head and brush of the tail. Repeat treatment in 10 days to kill newly hatched lice.

4) To control poultry lice, using a dilution of 2 to 3 ounces of concentrate per gallon of water spray roosts, walls and nests or cages thoroughly. This should be followed by spray over the birds with a fine mist.

5) For control of bedbugs and mites on poultry and in poultry houses, dilute at the rate of 2 to 3 fluid ounces per gallon of water and spray crevices of roost poles, cracks in walls and cracks in nests where the bedbugs and mites hide. This should be followed by spraying over the birds with a fine mist.

6) To control sheep "tick" or ked, dilute at the rate of 1 to 2 fluid ounces per 4 gallons of water and thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool. Treat at a rate sufficient to wet the animal.

7) To kill fleas and ticks on livestock and pets, and to obtain protection against reinfestation, dilute at the rate of 2 fluid ounces per gallon water and wet the animal by dipping or spraying. For best results against fleas and ticks on dogs and cats the kennels and/or animal quarters and bedding should be treated.

FOR USE IN BARNs, DAIRIES, MILKING PARLORS, MILKING ROOMS AND POULTRY HOUSES:

To control flies, gnats and mosquitoes, dilute at the rate of 2 fluid ounces per gallon of water. Apply as a fog or fine mist (at approximately 2 ounces per 1000 cubic feet of space), directing the spray toward the ceiling and upper corners, and not directly towards the animals or birds. For best results, close doors and windows before spraying, and keep them closed for 10 to 15 minutes. Applicator should vacate the treated area and ventilate it prior to returning. Repeat application as necessary.