



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

EPA Reg. Number:

Date of Issuance:

28293-219

23 FEB 1993

Term of Issuance:

Conditional

Name of Pesticide Product:

Unicorn Concentrate
 7243

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(Under FIFRA, as amended)

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. 28293-219".

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:

Joseph M. Savano

Date:

February 23, 1993

UNICORN

CONCENTRATE 7243

Water or Oil Dilutable Concentrate

For Use in Bakeries, Bottling Plants, Canneries, Flour Mills, Food Processing Plants, Grain Elevators, Hospitals, Hotels, Motels, Restaurants, and Outdoors for Mosquito Control and on Growing Crops.

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ACCEPTED
with COMMENTS
in EPA Letter Dated

23 Feb 1993

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

28293-219

ACTIVE INGREDIENTS:

Pyrethrins..... 1.00%
Piperonyl butoxide, Technical*..... 10.00%

INERT INGREDIENTS:**..... 89.00%
100.00%

* Equivalent to 08.00% (butylcarbityl) (6-propylpiperonyl) ether and 02.00% related compounds.

** Contains petroleum distillate

Keep Out of Reach of Children

DANGER

Statement of Practical Treatment

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, gelatin solution. If these are not available, drink large quantities of water. Avoid alcohol. Get medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Aspiration pneumonia hazard may contraindicate the induction of vomiting.

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

IF ON SKIN OR CLOTHING: Remove contaminated clothing and wash before reuse. Wash with plenty of soap and warm water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

See Side/Back Panel for Additional Precautionary Statements.

NET CONTENTS:

Manufactured By:

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

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PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

DANGER: Corrosive. Causes burns. Do not get in eyes, on skin, or on clothing. Due to corrosive nature, may be harmful or fatal if swallowed. Causes eye irritation. Harmful if absorbed through skin or inhaled. Avoid breathing vapor or spray mist. Wear protective clothing and rubber gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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.

Environmental Hazards

This product is toxic to fish. Do not apply to any body of water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Apply this product only as specified on this label.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

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.



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DIRECTORS FOR USE

**It is a violation of Federal law to use this product
in a manner inconsistent with its labeling.**

This concentrate is designed to be diluted with either water or oil before use. When diluting in water, prepare only the amount required for immediate use. Holding a water dilution more than 24 hours is not recommended. The resulting spray solution should be applied using good mechanical or compressed air fogging equipment.

USED ALONE: Use this concentrate alone as a clean-up spray or a pre-harvest spray where other materials cannot be used because of pre-harvest restrictions. This product may be used up to and including day of harvest.

Apply 12 to 36 ounces per acre and repeat if necessary to maintain effective control. Use in sufficient water (usually 100 gallons unless otherwise noted) for thorough coverage of upper and lower leaf surfaces.

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

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 until sprays have dried.

USED IN COMBINATION WITH OTHER INSECTICIDES: This product may be used in combination with other insecticides for quicker and more complete kill where insect resistance may be a problem, and to flush or excite insects out of hiding and into contact with other spray residues. The application should conform to accepted use directions and precautions for both products.

This concentrate is relatively non-toxic to honey bees. To maximize this benefit apply early in the morning or late in the evening.

ON GROWING CROPS: May be used on edible crops (out-doors or in greenhouses) up to and including day of harvest. Especially desirable as a clean-up or pre-harvest spray where other materials may not be used, due to residue restrictions.

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, Dasheen, 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.

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, Yam (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 (Malabar, Ceylon), Spinach (New Zealand), Swiss Chard.

BRASSICA (COLE) LEAFY VEGETABLES: Including (but not limited to) Broccoli, Chinese Broccoli (Gai Lon), Broccoli raab (Rapini), Brussels Sprouts, 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) Adzudi 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), Lablab Beans (Hycacinth 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 Melon, 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, Cranberry, Currant, Dewberry, Elderberry, Gooseberry, Grape, Huckleberry, Loganberry, Olallie Berry, Raspberry (black & red), Strawberry, Youngberry.

SUBTROPICAL FRUITS: Avocado, Banana, Carob, Barbados Cherry, Cherimoya, Dates, Feijoa, Figs, (Adriatic, Calimyrna, Kadota, 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, Chinquapin, 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: 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, Catnip, Chives, Clary, Coriander, Costmary, Cumin, Curry Leaf, Dill, Fennel (Italian & Sweet), Fenugreek, Horehound, Hyssop, Rosemary, Rue, Sage, Savory (Winter & Summer), Sweet Bay (Bay Leaf), Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood.

ADDITIONAL CROPS: 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, 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, Hornets, Horn Fly, Horse Fly, House Fly, Imported Cabbageworm, Leafhopper, Leafrollers, Leaf-tiers, 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 ON HARVESTED FRUITS AND VEGETABLES: To control Drosophila spp. and tephritid fruit flies dilute this concentrate at the rate of 1 part with 100 parts water (1 pint per 12.5 gallons or 6 tablespoons with 2 gallons water). Thoroughly mix the emulsion in the spray tank and treat as follows:

- 1) Apply liberally to tomatoes and fruits 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 9 parts of water (1 quart with 9 quarts of water) up to 1 part to 4 parts of water (1 quart with 1 gallon of 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 diluted 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 AND INSTITUTIONAL BUILDINGS AND WAREHOUSES, AS AN INDOOR SPRAY: 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 9 parts water (1 quart with 9 quarts water) up to 1 part to 4 parts water (1 quart with 1 gallon of water). Use at the rate of 1/2 to 1 ounce of diluted 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.



Where oil residues are not undesirable, this product can be diluted in deodorized base oil instead of water at the rates as above and applied by means of any good mechanical fogger capable of producing particles of aerosol size.

FOR USE I. STORAGE SITES: Clean warehouse bins, cribs, trucks, cargo ships, planes or other types of storage thoroughly by sweeping out the waste grain, cobwebs and other debris on the floors, walls, doorframes and rafters, paying close attention to the material lodged in the cracks and crevices. These accumulations should be removed and burned to kill all stages of insects that might be present.

In mills and elevators, all grain infested accumulations should be removed from the bin hoppers. Conveying equipment should also be cleaned and made free of trash deposits that could maintain infestation. For farms, particular attention should be given to cleaning up around the used feed and grain bags, grain residues from wagons, harvesting equipment and food troughs. All carry-over grain stocks not treated with grain protectant should be fumigated. Newly harvested grain should not be placed in the same bin with carry-over grain. These cleaning operations should be completed within three weeks before harvest.

After above sanitation measures have been employed, use diluted concentrate at the rate of 1 gallon diluted spray per 750 square feet on floors, walls, ceilings and partition crevices. Dilution rates: 1 part concentrate with 4 to 9 parts water, depending on severity of infestations.

FOR USE ON LIVESTOCK:

1) To kill deer flies, horse flies and stable flies, dilute at the rate of 1/3 to 2/3 pint per gallon of water. Apply to thoroughly wet the hair (1 quart per adult animal), with particular attention to the legs, flanks, barrel, topline and other body areas commonly attacked by these flies. Repeat treatment weekly as needed.

2) To kill gnats, horn flies, house flies and mosquitoes, dilute at the rate of 6 to 12 fluid ounces per gallon of water. Apply to thoroughly wet the hair, with particular attention to flanks, withers, topline, underline 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.

3) To kill fleas and ticks on livestock and pets, and protect against reinfestation, dilute at the rate of 9 fluid ounces per gallon of water. Wet the animal by dipping or spraying. For best results, also treat animal quarters and bedding.

4) To control sheep ked, dilute at the rate of 6 to 12 fluid ounces per 4 gallons of water. Apply to 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.

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5) To control biting and sucking lice and ticks on cattle, goats, hogs, horses and sheep, dilute at the rate of 1 quart per 75 gallons of water (1 tablespoon per 1 gallon). Spray to thoroughly wet the hair of the animal including the head and tail. Repeat treatment in 10 days to kill newly hatched lice.

6) To control poultry lice, dilute at the rate of 6 to 18 fluid ounces per gallon of water. Spray roosts, walls and nests or cages thoroughly, followed with a fine mist of spray over the birds.

7) To control mites and bedbugs on poultry and in poultry houses, dilute at the rate of 6 to 18 fluid ounces per gallon of water. Spray crevices of roost poles, cracks in walls and nests where mites and bedbugs hide, followed with a fine mist of spray over the birds.

FOR USE IN BARNS, DAIRIES, MILKING PARLORS, MILKING ROOMS AND POULTRY HOUSES: To control flies, gnats and mosquitoes, dilute at the rate of 1 part per 9 parts 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 needed.

MOSQUITO CONTROL OUTDOORS: To control adult mosquitoes, using ground application, dilute 1 part Concentrate in 7 parts of water or oil. Apply as a fine mist or fog. Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools and marshy areas may be treated. Application of this product to any body of water is prohibited. Repeat as necessary, usually once or twice a week.

With mobile or truck-mounted equipment, the above application rate will result if a 400-foot swath is treated, traveling at 15 mph, dispensing spray at a rate of 40 gallons per hour.

Application using fixed wing aircraft: Use 6 to 12 ounces of Concentrate in 4 gallons of water per acre.

To control mosquito larvae, dilute in oil at a rate of 1 part Concentrate to 150 parts oil (5 pints in 50 gallons) and apply at a rate of 20 to 25 gallons per acre. Apply as a coarse wetting spray to intermittently flooded areas, stagnant water, temporary rain pools and log pools.

Mix well in drum before sampling and each use.

