

228-156

07/15/2003

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

JUL 15 2003

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Russell F. Sawyer
Regulatory Affairs Manager
Nufarm Americas Inc.
Riverdale, a Nufarm Company
1333 Burr Ridge Parkway, Suite 125A
Burr Ridge, IL 60527-0866

Subject: Riverdale MCPA L.V. 4 Ester
EPA Reg. No. 228-156
Amendment dated March 7, 2003

Dear Mr. Sawyer:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes are made:

1. It is suggested, but not required, that the subheading "Inert Ingredients" be changed to "Other Ingredients" in the Ingredients section.
2. The first aid instructions for various routes of exposure must be listed in order of decreasing toxicity category. Therefore, list "If on skin or clothing" before "If swallowed." It is recommended that all of the First Aid instructions be placed in a box to set them off from the other text.
3. In the Storage and Disposal section, move the sentence "Do not contaminate water, food or feed by storage or disposal" to immediately below the section heading "STORAGE AND DISPOSAL." It is suggested, but not required, that the subheading "STORAGE" be changed to "PESTICIDE STORAGE."

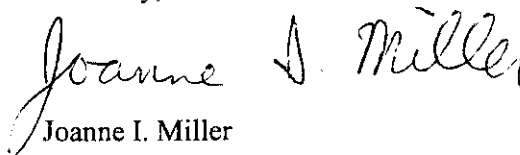
One copy of the label stamped "Accepted with comments" is enclosed for your records. This label supercedes all labels previously accepted for this product.

Please submit one copy of the final printed label before the product is released for shipment.

Riverdale MCPA L.V. 4 Ester
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If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at westin.robert@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Joanne I. Miller". The signature is written in black ink and is positioned above the typed name.

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosure

(MASTER LABEL)

RIVERDALE®

MCPA L. V. 4 ESTER

FOR THE SELECTIVE CONTROL OF BROADLEAF WEEDS IN SMALL GRAINS,
FLAX, GRASSES, RANGELANDS, PASTURES, AND NON-CROP AREAS

ACTIVE INGREDIENT:

Isooctyl (2-ethylhexyl) Ester of 2-Methyl-4-Chlorophenoxyacetic Acid* 68.7%

INERT INGREDIENTS: 31.3%

Contains petroleum distillates TOTAL 100.0%

Isomer Specific by AOAC Method, Equivalent to:

*2-Methyl-4-Chlorophenoxyacetic Acid 44.1%, 3.7 lbs./gal.

Riverdale is a Registered Trademark of Riverdale - A Nufarm Company

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que
se la explique a usted en detalle.

(If you do not understand the label, find someone
to explain it to you in detail.)

SEE INSIDE BOOKLET FOR FIRST AID
AND ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS GALS.

EPA REG. NO. 228-156

EPA EST. NO. 228-IL-1

MANUFACTURED BY NUFARM AMERICAS, INC., BURR RIDGE, ILLINOIS 60527-0866

ACCEPTED
with COMMENTS
In EPA Letter Dated
JUL 15 2003

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
228-156

(Inside Booklet)

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING - AVISO**

May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing.

NON-WPS USES: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) -- in general, only agricultural plant uses are covered by the WPS -- must wear: protective clothing and rubber gloves.

WPS USES: Personal Protective Equipment - Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural plant uses are covered -- must wear: coveralls over short-sleeved shirt and short pants; chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber > 14 mils, Neoprene Rubber > 14 mils and Viton > 14 mils; chemical-resistant footwear plus socks; chemical-resistant headgear for overhead exposure and chemical-resistant apron when cleaning equipment, mixing or loading. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for cleaning/maintaining PPE, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statements: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID STATEMENT

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Contains petroleum distillate - vomiting may cause aspiration pneumonia.

ENVIRONMENTAL HAZARDS

Drift or run-off may adversely affect nontarget plants. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

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Do not contaminate water when disposing of equipment washwaters or rinsate nor pour washwaters on the ground; spray or drain over a large area away from wells and other water sources. Do not apply this product through any type of irrigation system. Do not contaminate domestic or irrigation waters. Spray equipment used in applying this product should be thoroughly cleaned before using for any other purpose. Use repeated flushing with soap and warm water or suitable chemical cleaner. It is best to use a separate sprayer for application of insecticides and fungicides. This product will kill or seriously injure many desirable forms of vegetation. Do not apply directly to flowers, fruits, grapes, tomatoes, ornamentals, cotton or other desirable plants. Vapors from this product may injure susceptible plants in the immediate vicinity. Do not apply when weather conditions favor drift from target area. Avoid use of small-diameter nozzles. (Coarse sprays are less likely to drift.) Excessive amounts of this product in the soil may temporarily inhibit seed germination and plant growth.

Most cases of groundwater contamination involving phenoxy herbicides such as MCPA have been associated with mixing/loading and disposal sites. Caution should be exercised when handling MCPA pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing and transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

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

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 greenhouses, 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) of 12 hours.

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 over short-sleeved shirt and short pants, chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber \geq 14 mils, Neoprene Rubber \geq 14 mils and Viton \geq 14 mils; chemical-resistant footwear plus socks, and chemical-resistant headgear for overhead exposure.

EFFECTIVENESS ON WEEDS: MCPA L. V. 4 Ester is effective on a large number of broadleaf weeds. On Mustard, Thistle, and White top or Hoary cress, it has superiority over 2,4-D. The following are some of the weeds killed: Beggarticks, Burcucumber, Burdock, Buttercup, Canada thistle, Carpetweed, Catsear, Chervil, Cocklebur, Croton, Daisy, Dandelion, Dock, Dragonhead mint, Dwarf nettle, Fanweed, Fat hen, Fennel, Field bindweed, Galinsoga, Goatsbeard, Goldenrod, Halbertleaved salt brush, Hempnettle, Hoary cress, Honeysuckle, Jimsonweed, Knotweed, Kochia, Lambsquarters (Goosefoot), Marshelder, Mexican poppy,

Miner's lettuce, Narrow leaf plantain, Nutgrass, Pennycress, Pepperweed, Perennial morningglory, Perennial ragweed, Pigweed, Poison hemlock, Prickly lettuce, Puncturevine, Purslane, Red root, Redstem, Shepherds purse, Sicklepod, Small plantain, Sneezeweed, Sowthistle, Spanish needle, Stinging nettle, Stinkweed, Sunflower, Thornapple, Tree-of-heaven, Vetch, Whitebrush, Wild carrot, Wild gooseberry, Wild jute, Wild marigold, Wild petunia, Wild radish, Wild sage, Witchweed, Yellow charlock-mustard, Yellow daisy, Yellow rocket.

SELECTIVE SPRAYING

NOTE: When using on grains and flax - do not forage or graze dairy and meat animals on treated areas within seven days of slaughter. Also, except for small underseeded grains, use at least 8 to 10 gallons of water per acre for ground application and at least 3 to 5 gallons of water per acre for aerial application.

SMALL GRAINS: Wheat, Barley, Rye (For small grains underseeded with legumes, see the small grains paragraph below.) Spring planted - not seeded to legumes. Apply as a water mix spray by ground sprayer or airplane. Use 1/2 to 1-1/2 pints of this product per acre for the more susceptible weeds and up to 3 pints per acre for less susceptible weeds. Treat when fully tillered grains have reached 3 to 4 leaf stage (8 to 10 inches tall). Do not spray grain in the boot to dough stage.

Fall Planted - Fall application - not seeded to legumes. The safest time to treat is when Fall planted small grains are fully tillered and have reached 3 to 4 leaf to the boot stage (8 to 10 inches tall). Infestations of broadleaf weeds germinating in Fall and Winter may, however, justify treatment at an earlier stage. Fall planted wheat, barley, or rye can be sprayed with 1/2 to 1 pint of MCPA L. V. 4 Ester per acre from the 3 to 4 leaf stage to the boot stage. Spring application - Apply in early Spring when annual broadleaf weeds are small and grain is fully tillered but before grain is in the jointed stage.

SMALL GRAINS - Underseeded with Alfalfa, Birdsfoot Trefoil, Lespedeza, Red and White Clover: For emergency control of serious infestations of Mustard, Yellow rocket, and other susceptible broadleaf weeds, apply 1/4 to 1/2 pint in not more than 5 to 10 gallons of water per acre. Make application after cereal is well tillered (4 to 8 inches tall) and before reaching boot stage. The nurse crop and weeds should provide a protecting canopy which, together with the use of low gallonage applied at low pressure, will reduce the risk of damage to the legumes. Do not apply to small grains underseeded with vetch or sweet clover, which are very susceptible. There is also some risk to other legumes if only thinly protected by a canopy.

OATS: Spray after oats are fully tillered (4 to 6 inches tall) but before they are in the boot to dough stage. Apply the lower rate of 1/2 pint where annual weeds are the problem, the higher rate of 1 pint for perennial weeds.

FLAX: Use 1/4 to 1/2 pint per acre. Use lower rate where susceptible weeds such as Mustard are the main problem. Use higher rate when weeds such as Pigweed, Lambsquarters, Stinkweed, Ragweed, Cocklebur are the problem. Apply only when weeds are up and when flax is 2 to 8 inches high and before it comes into bud. Treatment after early bud stage may result in severe damage. If Canada thistle is present, it may be necessary to go as high as 3/4 pint per acre to prevent seed head production. Some injury to flax may result.

RANGE AND TIMBERLANDS: For control of Whitebrush - Use 1-1/4 quarts in mixture of 1 gallon of diesel oil and sufficient water to make 8 gallons of solution per acre. Apply in Spring or Fall under good moisture conditions, full leaf, before blossoms begin to Fall.

GRASSES:

Established Lawns, Golf Courses and similar Turf Grasses: Use 1 to 3 pints per acre in 10 to 100 gallons of water to give thorough coverage. Use higher rate for White top and Canada thistle. On smaller areas, use 1 fluid ounce (4 tablespoonfuls) mixed in 3 to 5 gallons of water and apply uniformly over 2,000 square feet. Do not mow within 2 days before or after application. Spring and Fall are best times to treat. Do not use on lawns of creeping grasses, such as bent, except for spot spraying, nor on freshly-seeded turf until the grass has become well established.

Established Grassland and Pastures: Use 1 to 3 pints per acre in sufficient water (10 to 100 gallons) in airplane or ground spray application and give thorough coverage. Use higher rate for White top, Canada thistle and other less easy-to-kill weeds. Spray perennials in early bud to full bloom stage and regrowth in Fall; other weeds in Spring or Fall, when actively growing.

Grasses Grown for Seed: Use 1 to 2 pints per acre in 5 to 50 gallons of water by air or ground sprayer application. Use higher rate where weed stands are heavy. In established grasses, apply in Spring before head comes into boot stage and on seedling grass after grass has tillered.

NOTE: For weed control in grasses, repeat treatment may be needed for less susceptible weeds. White clover and other legumes may be temporarily injured or killed. In some areas, bent, buffalo, carpet, centipede, dichondra and St. Augustine may also be injured by the treatment.

NON-CROP SPRAYING: Canada thistle, White top and Meadow buttercup. (In Non-Crop Areas such as Roadsides, Fence rows, Rights-of-way and similar places): For spot treatment use 1/4 pint to 3 to 4 gallons of water or 3/4 gallon per acre in 12 to 20 gallons of water to give coverage for most extensive areas. Spray to wet weeds thoroughly when in bud to early bloom and again on Fall regrowth.

STORAGE AND DISPOSAL

STORAGE: Always store pesticides in a secured warehouse or storage building. Do not store near open containers of fertilizer, seed or other pesticides. Containers should be opened in well-ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If container is damaged or if pesticide has leaked, contain all spillage. Absorb and clean up all spilled material with granules or sand. Place in a closed labeled container for proper disposal.

CONTAINER DISPOSAL: 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.

Local conditions may affect the uses of this chemical as shown on this label. Consult State Experiment Station or Extension Service weed specialist for specific recommendations for local weed problems and for information on possible lower dosages.

WARRANTY

Nufarm warrants that this herbicide conforms to the chemical description on its label. When used in accordance with label directions under normal conditions, this herbicide is reasonably fit for its intended purposes. Since timing, method of application, weather, plant and soil conditions, mixture with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use. (RV 030703)