

PAL 25

241-296 1786

MAY 21 1993

Dr. Mark W. Galley
American Cyanamid Co.
P.O. Box 400
Princeton, NJ 08543

Dear Dr. Galley:

Subject: Minor Label Change
CHOPPER® HERBICIDE
EPA Reg. No. 241-296
Your letter dated May 4, 1993

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

Sincerely yours,

Robert J. Taylor
Product Manager 25
Fungicide-Herbicide Branch
Registration Division (H7505C)

RD:RTaylor:eja:5/21/93:3056800

CHOPPER® herbicide

ACTIVE INGREDIENT:

Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)*.....27.6%

INERT INGREDIENTS.....72.4%

TOTAL.....100.0%

*Equivalent to 22.6% (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-3-yl]-3-pyridinecarboxylic acid) or 2 pounds acid per gallon.

EPA Reg. No. 241-296

ACCEPTED
with COMMENTS
in EPA Letter Dated:

MAY 21 1993

KEEP OUT OF REACH OF CHILDREN

CAUTION!

See Next Page for Additional Precautions

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this pesticide
is registered.

241-296

PRECAUCION

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

In case of an emergency endangering life or property involving this product, call collect, day or night, Area Code 201-835-3100.

AMERICAN CYANAMID COMPANY
AGRICULTURAL PRODUCTS DIVISION
VEGETATION AND PEST CONTROL
WAYNE, NJ 07470

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

CAUTION!

May be a skin sensitizer. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

IF ON SKIN: Wash with plenty of soap and water.

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

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of CHOPPER should be mixed, stored, and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

DO NOT mix, store, or apply CHOPPER or spray solutions of CHOPPER in unlined steel (except stainless steel) containers or spray tanks.

ENVIRONMENTAL HAZARDS

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 washwaters.

IMPORTANT

DO NOT use on food or feed crops. DO NOT apply on ditches used to transport irrigation water. DO NOT apply where runoff water may flow onto agricultural land as injury to crops may result. Keep from contact with fertilizers, insecticides, fungicides, and seeds. DO NOT apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. DO NOT use in California.

Thoroughly clean application equipment after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

GENERAL INFORMATION

CHOPPER herbicide is an emulsifiable concentrate mixable with water or fuel and penetrating oils. CHOPPER is to be mixed with a penetrating oil and applied as a spray to cut stumps, the basal areas of brush and trees and frilling cuts for the control of brush in noncrop areas. Prior to actual tank mixing with other products, compatibility testing in small containers is recommended.

CHOPPER herbicide is readily absorbed through bark and is translocated rapidly throughout the plants. In dormant plants, leaf-out is prevented and dieback occurs as the plant depletes its energy stores.

DIRECTIONS FOR USE

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

CHOPPER herbicide should be used only in accordance with recommendations in this leaflet label. Keep containers closed to avoid spills and contamination.

An application of CHOPPER is recommended for control of brush in noncropland areas such as railroad, utility, highway, and pipeline rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, non-irrigation ditchbanks and other similar areas. CHOPPER is also recommended for woody vegetation control in forestry sites and wildlife habitats.

STORAGE AND DISPOSAL

PROHIBITIONS: DO NOT store below 10°F. 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.

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

CUT STUMP TREATMENTS

Mix 8.0-12.0 fluid ounces of CHOPPER in one gallon of water*, diesel oil, or a penetrating oil such as CIDE-KICK(1), CIDE-KICK II(2), or ARBORCHEM BASAL OIL(3).

Spray or brush the CHOPPER solution onto the cambium area of the freshly cut stump surface. Insure that the CHOPPER solution thoroughly wets the cambium area, the wood next to the bark, of the stump.

DO NOT over apply causing puddling.

*Note: Use water as a diluent only when temperatures are sufficient to prevent freezing.

TREE INJECTION TREATMENTS

Mix 8.0-12.0 fluid ounces of CHOPPER in one gallon of water*, diesel oil, or a penetrating oil such as CIDE-KICK(1), CIDE-KICK II(2), or ARBORCHEM BASAL OIL(3).

Using standard injection equipment, apply 1 ml. of CHOPPER solution at each injection site around the tree with no more than 1 inch intervals between cut edges. Insure that the injector completely penetrates the bark at each site.

*Note: Use water as a diluent only when temperatures are sufficient to prevent freezing.

FRILL OR GIRDLE TREATMENTS

Mix 8.0-12.0 fluid ounces of CHOPPER in one gallon of water*, diesel oil, or a penetrating oil such as CIDE-KICK(1), CIDE-KICK II(2), or ARBORCHEM BASAL OIL(3).

Using an axe or machete, make cuts through the bark and completely around the tree with no more than 2 inch intervals between cut edges. Spray or brush the CHOPPER solution into each cut until thoroughly wet.

*Note: Use water as a diluent only when temperatures are sufficient to prevent freezing.

LOW VOLUME BASAL BARK TREATMENTS

Mix 8.0-12.0 fluid ounces of CHOPPER in one gallon of diesel oil or a penetrating oil such as CIDE-KICK(1), CIDE-KICK II(2), or ARBORCHEM BASAL OIL(3).

To control mixed brush species up to 4 inches DBH (tree diameter at breast height) spray to wet the lower 12-18 inches of the plant stem with the CHOPPER oil mixture (include the root collar area).

DO NOT over apply causing dripping or puddling.

(1 and 2) Registered Trademark of JLB International Chemical, Inc.

(3) Registered Trademark of Arborchem Products

CHOPPER herbicide will control the following species:

- Ash (Fraxinus spp.)
- Cherry (Prunus spp.)
- Dogwood (Cornus spp.)
- Hawthorn (Crataegus spp.)
- Hickory (Carya spp.)
- Maple (Acer spp.)
- Mulberry (Morus spp.)
- Multiflora rose (Rosa multiflora)
- Oak (Quercus spp.)
- Poplar (Populus spp.)
- Prickly wild rose (Rosa arkansana)
- Privet (Ligustrum vulgare)
- Red Maple (Acer rubrum)
- Sassafras (Sassafras albidum)
- Sumac (Rhus spp.)
- Sweetgum (Liquidambar styraciflua)
- Willow (Salix spp.)

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use of application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions of use, subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or value, of any other special or indirect damages.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.