



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

JAN 25 1994

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OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 09/02/93 in Response to PR Notice 93-7  
EPA Reg. No. 241-296  
CHOPPER HERBICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy-Canada Ink on paper that  
contains at least 50% recycled fiber

Leaflet

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

KEEP OUT OF REACH OF CHILDREN

JAN 25 1994

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

CAUTION/PRECAUCION

241-296

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

- IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

See Next Page for Additional Precautions

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

Registered Trademark of American Cyanamid Company

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS**

**CAUTION!**

May be a skin sensitizer. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

**Personal Protective Equipment (PPE):**

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

Users should:

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

**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.

### 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 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
- waterproof gloves
- shoes plus socks

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

### 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.

#### 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.

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.

#### 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

No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is directly injected into agricultural plants.

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.)

Poplar (Populus spp.)  
Prickly wild rose (Rosa arkansana)  
Privet (Ligustrum vulgare)

- Hawthorn (Crataegus spp.)
- Hickory (Carya spp.)
- Maple (Acer spp.)
- Mulberry (Morus spp.)
- Multiflora rose (Rosa multiflora)
- Oak (Quercus spp.)
- 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 values 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.