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ACCEPTED
FEB 25 1987
24-796

CHOPPER®herbicide
TREE STUMP AND BASAL HERBICIDE

ACTIVE INGREDIENT:

Isopropylamine salt of Imazapyr(2- 4,5-dihydro-4-methyl-4-(1-methylethy)-5-oxo-1H-imidazol-2-yl -3-pyridinecarboxylic acid)*.	27.6%
INERT INGREDIENT	72.4%
TOTAL.	100.0%

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

EPA Reg.No.241-

EPA Est.No.

KEEP OUT OF REACH OF CHILDREN

CAUTION!

See side Panel for Other Warnings

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.

Net Contents: Bulk

D-40

AMERICAN CYANAMID COMPANY
AGRICULTURAL DIVISION
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. 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 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 any body of water. DO NOT contaminate water by cleaning of equipment or disposal of waste.

DIRECTIONS FOR USE

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

CHOPPER® should be used in accordance with the recommendations in the CHOPPER® label leaflet.

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.

DISCLAIMER

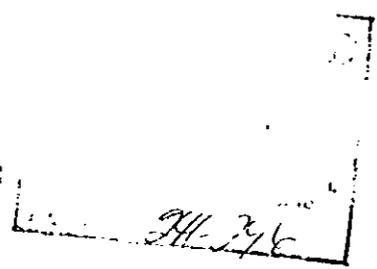
American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use.

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 or 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. User assumes the risk of any use contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable by American Cyanamid Company.

4/21

CHOPPER® herbicide
TREE STUMP AND BASAL HERBICIDE



ACTIVE INGREDIENT:

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

INERT INGREDIENT 72.4%

TOTAL. 100.0%

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

EPA Reg.No.241-

EPA Est.No.

KEEP OUT OF REACH OF CHILDREN

CAUTION!

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PRECAUCION

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Net Contents: 5 gallons
(18.90 liters)

D-40

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AGRICULTURAL DIVISION
WAYNE, NJ 07470

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

CAUTION!

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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 any body of water. DO NOT contaminate water by cleaning of equipment or disposal of waste.

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 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 on lawns, walks, driveways, tennis courts, or similar areas. 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 and/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.

CHOPPER® herbicide is readily absorbed through bark and roots 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 on the leaflet label attached to the container. 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 and pipeline rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, nonirrigation ditchbanks, and other similar areas.

CUT STUMP TREATMENTS

Mix 8.0-12.0 fluid ounces of CHOPPER® in one gallon of water*, diesel oil, No. 1 or No. 2 fuel oil, kerosene and/or pentetrating 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 and the bark of the cut stump. Insure that the cambium area, the wood next to the bark, is thoroughly wetted with the CHOPPER® solution.

Do not over apply cause 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, No. 1 or No. 2 fuel oil, kerosene and/or pentetrating oil such as Cide-Kick(1), Cide-Kick II(2) or Arborchem basal oil (3)

Using standard injection equipment, apply 1 mil. 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 temperature 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, No. 1 or No. 2 fuel oil, kerosene and/or pentetrating 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.

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

(3) Registered Trademark of Arborchem Products Co.

LOW VOLUME BASAL BARK TREATMENTS

Mix 8.0 - 12.0 fluid ounces of CHOPPER® in one gallon of diesel oil, No. 1 or No. 2 fuel oil, kerosene and/or penetrating oil such as Cide-Kick(1), Cide-Kick II(2) or Arborchem basal oil(3).

To control mixed brush species up to a 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.

DO NOT over apply causing dripping or puddling.

CHOPPER® herbicide will control the following species.

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

DISCLAIMER

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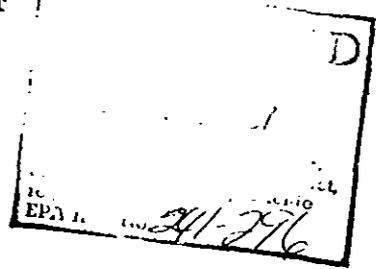
Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values of any other special or indirect damages.

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

100621

LEAFLET

CHOPPER® herbicide
TREE STUMP AND BASAL 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 INGREDIENT 72.4%

TOTAL. 100.0%

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

EPA Reg. No. 241-

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN
CAUTION!
See side Panel for Other Warnings

PRECAUCION

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D-40

AMERICAN CYANAMID COMPANY
AGRICULTURAL DIVISION
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

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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 any body of water. DO NOT contaminate water by cleaning of equipment or disposal of waste.

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 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 on lawns, walks, driveways, tennis courts, or similar areas. 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 and/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.

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

130621

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 on the leaflet label attached to the container. 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 and pipeline rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, nonirrigation ditchbanks, and other similar areas.

CUT STUMP TREATMENTS

Mix 8.0-12.0 fluid ounces of CHOPPER® in one gallon of water*, diesel oil, No. 1 or No. 2 fuel oil, kerosene and/or pentetrating 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 and the bark of the cut stump. Insure that the cambium area, the wood next to the bark, is thoroughly wetted with the CHOPPER® solution.

Do not over apply causes 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, No. 1 or No. 2 fuel oil, kerosene and/or pentetrating oil such as Cide-Kick(1), Cide-Kick II(2) or Arborchem basal oil (3).

Using standard injection equipment, apply 1 mil. 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.

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FRILL OR GIRDLE TREATMENTS

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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.

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

(3) Registered Trademark of Arborchem Products Co.

LOW VOLUME BASAL BARK TREATMENTS

Mix 8.0 - 12.0 fluid ounces of CHOPPER® in one gallon of diesel oil, No. 1 or No. 2 fuel oil, kerosene and/or penetrating oil such as Cide-Kick(1), Cide-Kick II(2) or Arborchem basal oil(3).

To control mixed brush species up to a 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.

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CHOPPER® herbicide will control the following species.

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| Ash (<u>Fraxinus</u> spp.) | Poplar (<u>Populus</u> spp.) |
| Cherry (<u>Prunus</u> spp.) | Prickly wild rose (<u>Rosa arkansana</u>) |
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| Hickory (<u>Carya</u> spp.) | Sassafrass (<u>Sassafrass albidum</u>) |
| Maple (<u>Acer</u> spp.) | Sumac (<u>Rhus</u> spp.) |
| Mulberry (<u>Morus</u> spp.) | Sweetgum (<u>Liquidambar styraciflua</u>) |
| Multiflora rose (<u>Rosa multiflora</u>) | Willow (<u>Salix</u> spp.) |
| Oak (<u>Quercus</u> spp.) | |

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CHOPPER®herbicide

TREE STUMP AND BASAL HERBICIDE

21/296

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 INGREDIENT 72.4%

TOTAL. 100.0%

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EPA Reg.No.241-

EPA Est.No.

KEEP OUT OF REACH OF CHILDREN

CAUTION!

See side Panel for Other Warnings

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Net Contents: 1 gallon
(3.78 liters)

D-40

AMERICAN CYANAMID COMPANY
AGRICULTURAL DIVISION
WAYNE, NJ 07470

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

CAUTION!

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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

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ENVIRONMENTAL HAZARDS

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STORAGE AND DISPOSAL

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CUT STUMP TREATMENTS

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TREE INJECTION TREATMENTS

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FRILL OR GIRDLE TREATMENTS

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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.

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LOW VOLUME BASAL BARK TREATMENTS

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- | | |
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| Hawthorn (<u>Crataegus</u> spp.) | Red Maple (<u>Acer rubrum</u>) |
| Hickory (<u>Carya</u> spp.) | Sassafrass (<u>Sassafrass albidum</u>) |
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| Multiflora rose (<u>Rosa multiflora</u>) | Willow (<u>Salix</u> spp.) |
| Oak (<u>Quercus</u> spp.) | |

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