

BEO-KIL-I
~~2% BROMACIL LIQUID WEED KILLER~~

ACCEPTED
DEC - 2 1985
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 30948-34

WATER SOLUBLE LIQUID

ACTIVE INGREDIENT:

Lithium salt of bromacil (5-bromo-3-sec-butyl-6-methyluracil) 2%

INERT INGREDIENTS 98%

U.S. Patents 3,235,357 & 3,352,862

EPA Reg. No. ~~352-XXX~~

EPA ST NO ~~30948-34-1~~

~~30948-34~~

KEEP OUT OF REACH OF CHILDREN

WARNING! HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE. CAUSES EYE IRRITATION. MAY IRRITATE NOSE, THROAT, AND SKIN.

Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist. Keep away from heat and open flame. Wash thoroughly after handling.

In case of contact, flush eyes or skin with plenty of water; for eyes, get medical attention.

IMPORTANT

Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply, 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. Prevent drift of spray to desirable plants. Do not contaminate domestic waters. Keep from contact with fertilizers, insecticides, fungicides, and seeds. Thoroughly clean all traces of 2% Bromacil Liquid Weed Killer from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

Product will freeze at temperatures below 32° F.

Do not re-use container; crush and bury when empty.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

GENERAL INFORMATION

2% Bromacil Liquid Weed Killer is a water soluble liquid to be sprayed undiluted on noncropland areas. It is an effective general herbicide for control of brush and many annual and perennial weed, and is particularly useful for control of perennial grasses. Effects are slow to appear and may not become apparent until the chemical has been carried into the root zone of the weeds by moisture. The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall, and other conditions.

2% Bromacil Liquid Weed Killer is non-volatile, non-flammable, and non-corrosive to metals except aluminum. Do not use with aluminum spray nozzles.

DIRECTIONS

Apply 2% Bromacil Liquid Weed Killer just before or during the period of active growth of plants to be controlled when rainfall can be expected for soil activation. If dense growth is present, results will be improved if vegetation is removed before treatment. Do not apply when ground is frozen.

Before spraying, calibrate equipment to uniformly apply the product. Use a fixed-boom power sprayer properly calibrated to a constant speed and rate of delivery. For application with a hand-gun sprayer, be careful to obtain even distribution of the herbicide to the soil. For treating small areas, a tank-type hand sprayer may be used.

WEED CONTROL: To control most weeds for an extended period of time on noncropland areas such as RAILROAD, HIGHWAY AND PIPELINE RIGHT-OF-WAYS, PETROLEUM TANK FARMS, LUMBERYARDS, STORAGE AREAS, and INDUSTRIAL PLANT SITES:

Apply 15 to 35 gals. 2% Bromacil Liquid Weed Killer per acre to control ANNUAL WEEDS and GRASSES such as bromegrass, cheatgrass, crabgrass, foxtail, lambsquarters, orchardgrass, puncturevine, ragweed, ryegrass, turkey mullein, and wild oats. When applied just prior to or after emergence of annuals, rates as low as 10 gals. per acre control many annual weeds and grasses in low rainfall areas and give short-term control in higher rainfall areas.

Apply 35 to 65 gals. 2% Bromacil Liquid Weed Killer per acre to control PERENNIAL WEEDS and GRASSES such as aster, bahiagrass, bluegrass, broomsedge, dandelion, dogfennel, goldenrod, plantain, purpletop, quackgrass, redtop, smooth brome, and wild carrot. In areas with low or seasonal rainfall, rates as low as 25 gals. per acre control many perennial weeds and grasses.

Apply 65 to 130 gals. 2% Bromacil Liquid Weed Killer per acre to control JOHNSON-GRASS; use at the same rate for OTHER HARD-TO-KILL PERENNIAL WEEDS and GRASSES such as bermudagrass, bouncingbet, bracken fern, dallisgrass, dogbane, horsetail, nutsedge, saltgrass, and vaseygrass. Where limited rainfall (usually less than 4 inches) occurs during the active growth period, such as some areas of the West, 2% Bromacil Liquid Weed Killer will not provide satisfactory control of hard-to-kill, deep-rooted perennial weeds such as johnsongrass.

Use the higher levels of the dosage ranges on adsorptive soils (usually those high in organic matter or carbon).

Retreatment - Apply 10 to 35 gals. 2% Bromacil Liquid Weed Killer per acre when annual weeds and grasses reappear on sites where weed growth has been controlled.

For small areas - 5 qts. of 2% Bromacil Liquid Weed Killer per 1,000 sq. ft. is approximately 54 gals. per acre.

BRUSH CONTROL: To control undesirable woody plants on noncropland areas such as RAILROAD RIGHT OF WAYS, STORAGE AREAS, INDUSTRIAL PLANT SITES, and DRAINAGE DITCHES:

Apply in spring or summer as a broadcast or basal (soil) treatment; for use on drainage ditches, apply as a basal (soil) treatment only.

Note: For effective brush control and prevention of damage to desirable vegetation, do not apply to brush standing in water; do not use water from treated ditches for irrigation; do not use in irrigation ditches nor on right-of-ways or other sites where marketable timber or other desirable trees or shrubs are immediately adjacent to the treated area.

Broadcast Treatment - Apply 25 to 55 gals. per acre to control oak, pine, sweet gum, and willow; apply 65 to 130 gals. per acre to control brush such as American elm, cottonwood, hackberry, sumac, and winged elm. Use the higher levels of the dosage ranges on adsorptive soils (those high in organic matter or carbon).

Basal (Soil) Treatment - Apply at the rate of 2 to 4 fl. oz. per stem 2" to 4" in basal diameter; wet base of stem to run-off. Treatment controls woody plants such as cottonwood, hackberry, maple, oak, poplar, red bud, sweet gum, wild cherry, willow, and winged elm.

NOTICE OF WARRANTY

Seller warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. 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 manner of use or application, all of which are beyond the control of the seller. In no case shall the seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Seller makes no warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

November 25, 1981

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GENERAL INFORMATION

2% Bromacil Liquid Weed Killer is a water soluble liquid to be sprayed undiluted on noncropland areas. It is an effective general herbicide for control of brush and many annual and perennial weeds, and is particularly useful for control of perennial grasses. Effects are slow to appear and may not become apparent until the chemical has been carried into the root zone of the weeds by moisture. The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall, and other conditions.

2% Bromacil Liquid Weed Killer is non-volatile, non-flammable, and non-corrosive to metals except aluminum. Do not use with aluminum spray nozzles.

DIRECTIONS

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **Storage:** Do not store above 100°F (37.8°C). Store in a cool dry place away from heat or open flame. Keep container sealed when not in use.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess Pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency of the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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.

WEED CONTROL

To control most weeds for an extended period of time on noncropland areas such as RAILROAD, HIGHWAY AND PIPELINE RIGHT-OF-WAYS, PETROLEUM TANK FARMS, LUMBERYARDS, STORAGE AREAS, and INDUSTRIAL PLANT SITES:

Apply 15 to 35 gals. 2% Bromacil Liquid Weed Killer per acre to control ANNUAL WEEDS and GRASSES such as bromegrass, cheatgrass, crabgrass, foxtail, lamb-quarters, orchardgrass, puncturevine, ragweed, ryegrass, turkey mullein, and wild oats. When applied just prior to or after emergence of annuals, rates as low as 10 gals. per acre control many annual weeds and grasses in low rainfall areas and give short-term control in higher rainfall areas.

Apply 35 to 65 gals. 2% Bromacil Liquid Weed Killer per acre to control PERENNIAL WEEDS and GRASSES such as aster, bahagrass, bluegrass, broomsedge, dandelion, dogfennel, goldenrod, plantain, purpletop, quackgrass, redtop, smooth brome, and wild carrot. In areas with low or seasonal rainfall, rates as low as 25 gals. per acre control many perennial weeds and grasses.

(Continued on right panel)

BRO-KIL I

WATER SOLUBLE LIQUID

Active Ingredient:
Lithium salt of bromacil (5-bromo-3 sec-butyl-6-methyluracil)

Inert Ingredients:

U.S. Patents 3,235,357 & 3,352,862
EPA Reg. No. 30948-34 EPA Est. No. 30948-

KEEP OUT OF REACH OF CHILDREN

WARNING! Harmful or fatal if swallowed. Combustible. Causes eye irritation. May irritate nose, throat, and skin.

Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist. Keep away from heat and open flame. Wash thoroughly after handling.

In case of contact, flush eyes or skin with plenty of water; for eyes, seek medical attention.

IMPORTANT

Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply, 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. Prevent drift of spray to desirable plants. Do not contaminate domestic waters. Keep from contact with fertilizers, insecticides, fungicides, and seeds. Thoroughly clean all traces of 2% Bromacil Liquid Weed Killer from application equipment immediately after use. Flush tank, pump, hose, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

Product will freeze at temperatures below 32° F.

Keep Container Closed.

In Accordance with EPA Reg. No. 30948-34
Based on Draft Label Revision 12-2-85

NET CONTENTS

GALL

Manufactured By
BIO-NOMICAL CHEMICALS AND SERVICES, INC.
1003 Pineville Road
Chattanooga, TN 37405

BEST AVAILABLE

INERT INGREDIENTS 92.5%

U.S. Patents 3,235,357 & 3,352,862

EPA Reg. No. ~~352-1001~~

EPC REG NO 30948-TV-

30948-

KEEP OUT OF REACH OF CHILDREN

WARNING! HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE. CAUSES EYE IRRITATION. MAY IRRITATE NOSE, THROAT, AND SKIN.

Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist. Keep away from heat and open flame. Wash thoroughly after handling.

In case of contact, flush eyes or skin with plenty of water; for eyes, get medical attention.

IMPORTANT

) Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply, 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. Prevent drift of spray to desirable plants. Do not contaminate domestic waters. Keep from contact with fertilizers, insecticides, fungicides, and seeds. Thoroughly clean all traces of 2.5% Bromacil Liquid Weed Killer from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

Product will freeze at temperatures below 32° F.

Do not re-use container; crush and bury when empty.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

GENERAL INFORMATION

7.5% Bromacil Liquid Weed Killer is a water soluble liquid to be sprayed undiluted on noncropland areas. It is an effective general herbicide for control of brush and many annual and perennial weeds, and is particularly useful for control of perennial grasses. Effects are slow to appear and may not become apparent until the chemical has been carried into the root zone of the weeds by moisture. The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall, and other conditions.

7.5% Bromacil Liquid Weed Killer is non-volatile, non-flammable, and non-corrosive to metals except aluminum. Do not use with aluminum spray nozzles.

DIRECTIONS:

Apply 7.5% Bromacil Liquid Weed Killer just before or during the period of active growth of plants to be controlled when rainfall can be expected for soil activation. If dense growth is present, results will be improved if vegetation is removed before treatment. Do not apply when ground is frozen.

Before spraying, calibrate equipment to uniformly apply the product. Use a fixed-boom power sprayer properly calibrated to a constant speed and rate of delivery. For application with a hand-gun sprayer, be careful to obtain even distribution of the herbicide to the soil. For treating small areas, a tank-type hand sprayer may be used.

WEED CONTROL

To control most weeds for an extended period of time on noncropland areas such as RAILROAD, HIGHWAY, and PIPELINE RIGHT-OF-WAYS, PETROLEUM TANK FARMS, LUMBERYARDS, STORAGE AREAS, and INDUSTRIAL PLANT SITES, apply 4 to 8 gals. of 7.5% Bromacil Liquid Weed Killer per acre to control ANNUAL WEEDS and GRASSES such as brome grass, cheatgrass, crabgrass, foxtail, lambsquarters, orchardgrass, puncturevine, ragweed, ryegrass, turkey mullein, and wild oats. When applied just prior to or after emergence of annuals, rates as low as 2 gals. per acre control many annual weeds and grasses in low rainfall areas and give short-term control in higher rainfall areas.

Apply 8 to 16 gals. of 7.5% Bromacil Liquid Weed Killer per acre to control PERENNIAL WEEDS and GRASSES such as aster, bahiagrass, bluegrass, broomsedge, dandelion, dogfennel, goldenrod, plantain, purpletop, quackgrass, redtop, smooth brome, and wild carrot. In areas with low or seasonal rainfall, rates as low as 20 gals. per acre control many perennial weeds and grasses.

Apply 16 to 32 gals. of 7.5% Bromacil Liquid Weed Killer per acre to control JOHNSONGRASS; use at the same rate for OTHER HARD-TO-KILL PERENNIAL WEEDS and GRASSES such as bermudagrass, bouncingbet, bracken fern, dallisgrass, dogbane, horsetail, nutsedge, saltgrass, and vaseygrass. Where limited rainfall (usually less than 4 inches) occurs during the active growth period, such as some areas of the West, 7.5% Bromacil Liquid Weed Killer will not provide satisfactory control of hard-to-kill, deep-rooted perennial weeds such as johnsongrass.

Use the higher levels of the dosage ranges on adsorptive soils (usually those high in organic matter or carbon).

Retreatment - Apply $\frac{1}{2}$ to $\frac{8}{8}$ gals. of 7.5% Bromacil Liquid Weed Killer per acre when annual weeds and grasses reappear on sites where weed growth has been controlled.

For small areas - 1 gal. per 1,000 square feet is approximately 44 gals. per acre.

BRUSH CONTROL

To control undesirable woody plants on noncropland areas such as RAILROAD RIGHT-OF-WAYS, STORAGE AREAS, INDUSTRIAL PLANT SITES, and DRAINAGE DITCHES:

Apply in spring or summer as a broadcast or basal (soil) treatment; for use on drainage ditches, apply as a basal (soil) treatment only.

Note: For effective brush control and prevention of damage to desirable vegetation: do not apply to brush standing in water; do not use water from treated ditches for irrigation; do not use in irrigation ditches nor on right of ways or other sites where marketable timber or other desirable trees or shrubs are immediately adjacent to the treated area.

Broadcast Treatment - Apply 6 to 12 gals. per acre to control oak, pine, sweet gum, and willow; apply 48 to 96 gals. per acre to control brush such as American elm, cottonwood, hackberry, sumac, and winged elm. Use the higher levels of the dosage ranges on adsorptive soils (those high in organic matter or carbon).

Basal (Soil) Treatment - Apply at the rate of $\frac{2}{3}$ to $1\frac{1}{3}$ fl. oz. per stem 2" to 4" in basal diameter; wet base of stem to run-off. Treatment controls woody plants such as cottonwood, hackberry, maple, oak, poplar, red bud, sweet gum, wild cherry, willow, and winged elm.

NOTICE OF WARRANTY

Seller warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. 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 manner of use or application, all of which are beyond the control of the seller. In no case shall the seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Seller makes no warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

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NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

November 25, 1981

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