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## General Directions for Use

### 2, 4, 5-T AMINE BRUSH KILLER

Monsanto 2, 4, 5-T Amine Brush Killer is formulated to control certain herbaceous and woody plants resistant to 2, 4-D, growing on rights-of-way, fence rows, industrial areas and ditches. It is designed for application after dilution only with water. Although this product is non-volatile, care must be exercised as outlined in the Warning to prevent drift while spraying. Do not use in any manner other than recommended on the label.

Monsanto 2, 4, 5-T Amine Brush Killer produces best results when applied to weeds and brush growing rapidly. Lack of moisture may cause less effective control. Thorough coverage is important. Amine brush killers sometimes work more slowly and thoroughly on brush than esters, and final extent of kill may not be completely apparent until the year after application.

### 2, 4, 5-T ESTER BRUSH KILLER

2, 4, 5-T Ester Brush Killer effectively controls many woody plants resistant to 2, 4-D formulations. Lack of moisture may cause less effective control. When used in food crops, do not apply after edible portion of crop has begun to form. It is applied after dilution with water or oil, and may be used in ground equipment or in airplane sprayers. Add Monsanto 2, 4, 5-T Ester Brush Killer to spray tanks while filling, and mix thoroughly.

### 2, 4, 5-T LOW VOLATILE ESTER BRUSH KILLER

2, 4, 5-T Low Volatile Ester Brush Killer effectively controls many woody plants resistant to 2, 4-D formulations. Lack of moisture may cause less effective control. It is much less volatile than either isopropyl or butyl esters, but should always be used with care as recommended in the warning. Monsanto 2, 4, 5-T Low Volatile Ester Brush Killer is applied after dilution with water or oil, and may be used in ground equipment or in airplane sprayers. Add 2, 4, 5-T to spray tanks while filling, and mix thoroughly.

### BRUSH BLITZ

#### 6 POUNDS ACTIVE ESTER BRUSH KILLER

BRUSH BLITZ is one of the most highly concentrated brush killers available: Six pounds of active brush killer concentrate per gallon. Covers 50% more ground than ordinary "4-pound/gallon" brush killers — costs less per acre to use.

BRUSH BLITZ effectively controls many woody plants resistant to 2, 4-D formulations. Lack of moisture may cause less effective control. It is much less volatile than either isopropyl or butyl esters, but should always be used with care as recommended in the warning. Monsanto BRUSH BLITZ is applied after dilution with water or oil, and may be used in ground equipment or in airplane sprayers. Add to spray tanks while filling, and mix thoroughly.

The instructions given below should be considered as specific recommendations regarding application, dosages, and timing of spray. Use of this product may be governed in certain areas by local regulations.

FOR USE AS	AMOUNT TO USE	TIME TO USE	PRECAUTIONS
FOLIAGE SPRAY	4 quarts per 100 gallons of water. For small areas, use 3 tablespoonfuls per gallon of water.	Spring and summer.	Avoid spraying where drift may injure susceptible crops. Because Monsanto 2, 4, 5-T Amine Brush Killer works more slowly than ester sprays, it is best to wait until the following year before re-treating any species which may at first appear to be only slightly affected. This slower kill often permits more chemical to move to the roots, which eventually results in less regrowth. On species of brush which prove to be truly resistant, a basal spray or stump treatment with Monsanto 2, 4, 5-T Ester Brush Killer is recommended.
FOLIAGE SPRAY	Ground Equipment: 3 quarts per 100 gallons of water. For small areas, use 2 tablespoonfuls per gallon of water. Aerial Spray: Check with competent local authorities.	Late spring or summer. Check with competent local authorities.	Avoid spraying where drift or volatility may injure susceptible crops. Best results are usually obtained when plants are growing actively. Lack of moisture may cause less effective control. Re-treat missed areas and the more resistant species the following season.
BASAL SPRAY	1 gallon in 25 gallons diesel oil or kerosene. (In dormant seasons, reduce oil to 15 to 20 gallons.) For small areas, use $\frac{1}{2}$ pint per gallon of oil.	Any season.	Avoid spraying where drift or volatility may injure susceptible crops. Drench bark on all sides from ground line up to 3 feet. For best results, allow treated brush to stand for at least a year before cutting.
STUMP TREATMENT	1-2 gallons in 50 gallons diesel oil or kerosene. For small areas, use $\frac{1}{4}$ pint per gallon of oil.	Any season.	Avoid spraying where drift or volatility may injure susceptible crops. Drench top and sides of stump and any exposed roots.
FOLIAGE SPRAY	Ground Equipment: 3 quarts per 100 gallons of water. For small areas use 2 tablespoonfuls per gallon of water. Aerial Spray: Check with competent local authorities.	Late spring or summer. Check with competent local authorities.	Avoid spraying where drift may injure susceptible crops. Best results are usually obtained when plants are growing actively. Lack of moisture may cause less effective control. Re-treat missed areas and the more resistant species the following season.
BASAL SPRAY	1 gallon in 25 gallons diesel oil or kerosene. (In dormant seasons, reduce oil to 15 to 20 gallons.) For small areas, use $\frac{1}{2}$ pint per gallon of oil.	Any season.	Avoid spraying where drift may injure susceptible crops. Drench bark on all sides from ground line up to 3 feet. For best results, allow treated brush to stand for at least a year before cutting.
STUMP TREATMENT	1-2 gallons in 50 gallons diesel oil or kerosene. For small areas, use $\frac{1}{4}$ pint per gallon of oil.	Any season.	Avoid spraying where drift may injure susceptible crops. Drench top and sides of stump and any exposed roots.
FOLIAGE SPRAY	Ground Equipment: 2 quarts per 100 gallons of water. For small areas, use 1 tablespoonful per gallon of water.	Late spring or summer. Check with competent local authorities.	Avoid spraying where drift may injure susceptible crops. Best results are usually obtained when plants are growing actively. Lack of moisture may cause less effective control. Re-treat missed areas and the more resistant species the following season.
BASAL SPRAY	5 to 6 pints in 25 gallons diesel oil or kerosene. (In dormant seasons, reduce oil to 15 to 20 gallons.) For small areas, use $\frac{1}{4}$ pint per gallon of oil.	Any season.	Avoid spraying where drift may injure susceptible crops. Drench bark on all sides from ground line up to 3 feet. For best results, allow treated brush to stand for at least a year before cutting.
STUMP TREATMENT	5 to 6 pints in 50 gallons diesel oil or kerosene. For small areas, use $\frac{1}{4}$ pint per gallon of oil.	Any season.	Avoid spraying where drift may injure susceptible crops. Drench top and sides of stump and any exposed roots.

## **Warning**

Extreme care must be used when applying 2, 4, 5-T to prevent injuring desirable plants and crops. 2, 4, 5-T should not be used in susceptible crops such as cotton, tomatoes, vegetables, grapes, fruit trees, soybeans, tobacco, or beans. Do not allow spray mist to drift on to such plants, since even minute quantities of spray may cause severe injury. Use low pressures when spraying to produce coarse sprays which are less likely to drift. Esters of 2, 4, 5-T produce vapors after application which may injure susceptible plants in the vicinity.

Do not use on newly seeded lawns. Creeping grasses, such as bent, are injured by 2, 4, 5-T and should not be sprayed unless spot applications are made on weeds and localized turf injury can be tolerated. White clover or other legumes are damaged by 2, 4, 5-T.

Do not use in greenhouses.

Large amounts of 2, 4, 5-T in soil may temporarily inhibit seed germination. Never use more 2, 4, 5-T than recommended.

Avoid contamination of irrigation water with this material.

Keep containers closed when not in use, and do not reuse for other purposes.

It is safest to use a separate sprayer for application of 2, 4, 5-T herbicides. If the same sprayer must be used for other crop spraying, it should be flushed thoroughly with water immediately after use. Next, fill equipment with water containing one volume household ammonia to 100 volumes of water, and allow to stand for one day. Then flush equipment thoroughly, including hoses and nozzles, several times with water.

"Nothing contained herein is to be construed as a recommendation to use any product in conflict with any patent. MONSANTO MAKES NO WARRANTIES AS TO THE FITNESS OR MERCHANTABILITY OF ANY PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations, and disclaims all liability for any resulting loss or damage."

MONSANTO AGRICULTURAL DIVISION • ST. LOUIS, MISSOURI 63166

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9-854-1267 LITHO IN U.S.A.

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# 24-D//24-E

## BUTYL ESTER

**FORMATION**  
Butyl Ester is formulated  
in soluble herbicides and mostly  
as herbicides, insecticides  
and pestries. It is designed  
to be mixed with other water or oil.

14-0-24-5-1 Butyl Esters

Conc. Herbicides

Herbicides

Insecticides

Pesticides

Oils

Other organic

Paints

Solvents

Stains

Waxes

Formulations for control of broad leaf plants.

Formulations for control of grasses.

Formulations for control of weeds.

Formulations for control of trees.

Formulations for control of shrubs.

Formulations for control of vines.

Formulations for control of flowers.

Formulations for control of fruits.

Formulations for control of roots.

Formulations for control of stems.

Formulations for control of leaves.

Formulations for control of buds.

Formulations for control of flowers.

Formulations for control of roots.

Formulations for control of stems.

Formulations for control of leaves.

Formulations for control of buds.

Formulations for control of flowers.

Formulations for control of roots.

Formulations for control of stems.

Formulations for control of leaves.

Formulations for control of buds.

Formulations for control of flowers.

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Formulations for control of buds.

Formulations for control of flowers.

Formulations for control of roots.

Formulations for control of stems.

Formulations for control of leaves.

Formulations for control of buds.

Formulations for control of flowers.

Formulations for control of roots.

**WARNING—Extreme care must be used when applying 24-D and 24-E to prevent injuring desirable plants and crops. 24-D and 24-E should not be used in susceptible crops such as cotton, beans, vegetables, grapes, fruit trees, soybeans, tobacco, or beans. Do not dilute spray and to drift on to such plants, since even minute quantities of spray may cause severe injury. Use low pressures when spraying to produce coarse spray which is less likely to drift. Do not spray on windy days. Effects of 24-D and 24-E last longer after application which may injure susceptible plants in the vicinity.**

**Do not use on severely damaged leaves. Crossing blossoms, such as those injured by 24-D and 24-E, and should not be sprayed unless spray applications are made on winds and localized leaf injury can be observed. White clover or other legumes are damaged by 24-D and 24-E.**

**Do not use in greenhouses.**

**Large amounts of 24-D and 24-E will kill any temperature inhibiting seed germination. Never use more than recommended.**

**Large amounts of 24-D and 24-E will kill any temperature inhibiting seed germination. Never use more than recommended.**

**Do not apply to tubers, ponds and streams. Do not apply to any area not specified on the label.**

**Keep containers closed and not in use, and do not reuse for other purposes.**

**Do not use in any manner other than recommended on the label to avoid possible crop injury or reduction of harvest.**

**It is best to use a separate sprayer for application of 24-D and 24-E herbicides. If the same sprayer must be used for other crop sprays, it should be flushed thoroughly with water immediately after use. Next, fill equipment with water containing 1 volume household ammonia to 10 volumes of water, and allow to stand for 1 day. Then flush equipment thoroughly, including hoses and nozzles, several times with water.**

### DIRECTIONS FOR USE

The recommended rates for specific crops should be considered as a guide. Consult your local agricultural extension agent, station or extension service and sprayer or local nurseryman for specific information on rates for your particular crop.

**FOAMING SPRAY—For spraying foliage with ground equipment at 10-15 gals. per acre. Use 1 part of spray to 10 parts of water.**

**24-0-24-5-1 Butyl Ester Brush Sprayer** (which includes 1 part of spray to 10 parts of water) or 1 part of spray to 10 parts of water for small areas, and 2 tablespoons per gallon of water. Wash thoroughly all surfaces of brush after use. Do not use on sensitive plants and hair is required for good results. Best results are usually obtained when using 24-0-24-5-1 on small areas.

**minimize any chance of skin irritation. The brush must be cleaned after use.**

**If large trees are present it may be desirable to employ a basal spray or trunk spray; 24-0-24-5-1.**

**This product may be applied up to 1 gallon of the product per acre by ground equipment or 1 part of spray to 10 parts of water.**

**24-0-24-5-1 Butyl Ester Brush Sprayer** (which includes 1 part of spray to 10 parts of water) or 1 part of spray to 10 parts of water for small areas, and 2 tablespoons per gallon of water. Wash thoroughly all surfaces of brush after use. Do not use on sensitive plants and hair is required for good results. Best results are usually obtained when using 24-0-24-5-1 on small areas.

**Basal Spray—Basal spray treatments may be made at any time during winter or summer. The treatment is particularly useful for large stands of trees, or recent natural growth. Use 1 part of spray to 10 parts of water.**

**Brush Sprayer—Use 1 part of spray to 10 parts of water.**

**For small areas, use 1/2 pint per gallon of oil.**

**For best results, allow brush to stand for at least a year before cutting.**

**STUMP TREATMENT—Cut stumps may be treated at any season to prevent regrowth. Use 1 part of spray to 10 parts of water.**

**24-0-24-5-1 Butyl Ester Spray** (which includes 1 part of spray to 10 parts of water) or 1 part of spray to 10 parts of water for small areas.

**Thoroughly treat top and sides of stump and any exposed roots. Use 1/2 pint per gallon of oil.**

**For small areas, use 1/2 pint per gallon of oil.**

**For best results, allow stump to stand for at least a year before cutting.**

**DO NOT USE ON CROPS.**

**DO NOT USE ON FOLIAGE.**

**DO NOT USE ON BARK.**

**DO NOT USE ON LEAVES.**

**DO NOT USE ON BUDS.**

**DO NOT USE ON FLOWERS.**

**DO NOT USE ON ROOTS.**

**DO NOT USE ON STEMS.**

**DO NOT USE ON LEAVES.**

**DO NOT USE ON BUDS.**

**DO NOT USE ON FLOWERS.**

### NOTICE

**Not all material contained in this label is necessarily fit for the uses indicated. The product is not intended for use on any plant or crop. The buyer assumes all risk of loss or damage to any plant, such as one or more of the above, which may result from use of the product. The manufacturer, the seller, or any other persons or institutions involved in the sale or use of this product, shall not be liable for any damages resulting from use of the product, except to the extent of the liability of Monsanto Company for any and all losses suffered by any user arising out of or resulting from the use of this product. The user agrees to hold the manufacturer, the seller, and any other persons or institutions involved in the sale or use of this product, harmless from any and all claims, demands, suits, expenses, costs, and attorney's fees arising out of or resulting from the use of this product.**

**14-0-24-5-1 Butyl Ester**

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