



Brush-Rhap®

For control of a wide spectrum of annual, biennial, and perennial broadleaf weeds and brush in Conservation Reserve Program land; Certain Non-Crop Areas, Set-Aside Acres, and for Forest Management, Pastures, Rangeland and Grass (Hay, Silage), Sorghum, Sugarcane, and Wheat

ACTIVE INGREDIENT(S):	
3,6-Dichloromethoxybenzoic acid	18.28%
2,4-Dichlorophenoxyacetic acid	24.62%
INERT INGREDIENTS	57.10%
TOTAL	100.00%

Equivalent to: Dicamba Acid, 1.8 lbs./gal., 2,4-D Acid, 2.4 lbs./gal.
Isomer specific by AOAC Method 6.D01-5 (12th Ed.)

AD 011311

EPA Reg. No. 5905-568

EPA Est. No. 42750-MO-001

KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

SEE INSIDE LEAFLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND COMPLETE DIRECTIONS FOR USE.

NET CONTENTS:

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not store under conditions that might adversely affect the container or its ability to function properly. **PESTICIDE STORAGE:** Do not store below temperature of 32°F or above 100°F. Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. **PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. **CONTAINER DISPOSAL: NONREFILLABLE CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS):** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **NONREFILLABLE CONTAINER (GREATER THAN 5 GALLONS):** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. **REFILLABLE CONTAINER:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. When this container is empty, replace the cap and seal all openings that have been opened during use; and return the container to the point of purchase or to a designated location named at the time of purchase of this product in a bulk container. This container may only be refilled with this herbicide. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact ChemTrec at 1-800-424-9300 or Helena Chemical Company at 1-901-761-0050. If not returned to the point of purchase or to the designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with State and local regulations. **In Case of Spill:** In case of large-scale spillage regarding this product, call ChemTrec 1-800-424-9300. **Steps to be taken in case material is released or spilled:** Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

Manufactured For

HELENA CHEMICAL COMPANY

225 SCHILLING BOULEVARD, SUITE 300
COLLIERVILLE, TENNESSEE 38017

PEEL BACK BOOK HERE AND RESEAL AFTER OPENING



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EPA Reg. No. 5905-568
 EPA Est. No. 42750-MO-001

AD 011311

Manufactured For
HELENA CHEMICAL COMPANY
 225 SCHILLING BOULEVARD, SUITE 300 • COLLIERVILLE, TN 38017



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for Category A on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, flaggers and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Goggles or face shield
- Chemical resistant gloves
- Chemical-resistant apron when mixing, loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See "Engineering Controls" for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be re-used until it has been cleared.

ENGINEERING CONTROL STATEMENTS

When handlers use enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.



**Endangered Species Concerns:**

The use of any pesticide in a manner that may kill or otherwise harm and endangered species or adversely modify their habitat is a violation of Federal law.

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.

Unless otherwise directed in supplemented labeling, all applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition, et. al. v. EP, C01-0132C (W.D. WA). For further information, please refer to <http://www.epa.gov/espp/itstatus/wtc>.

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 48 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 worn over short-sleeved shirt and short pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant headgear for overhead exposure
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

USE REQUIREMENTS FOR PASTURES, PERENNIAL GRASSLANDS, RANGELAND, FALLOW LAND AND NON-CROP AREAS: Do not enter or allow others to enter treated areas until sprays have dried.



STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not store under conditions that might adversely affect the container or its ability to function properly.

PESTICIDE STORAGE: Do not store below temperature of 32°F or above 100°F. Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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In Case of Spill: In case of large-scale spillage regarding this product, call ChemTrec 1-800-424-9300.

Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.



I. PRODUCT INFORMATION

BRUSH-RHAP® is a postemergence herbicide for controlling a wide spectrum of annual, biennial, and perennial broadleaf weeds and brush in pastures, rangeland, and grass (hay, silage), sorghum, sugarcane, wheat, conservation reserve program land, postharvest, fallow, crop stubble, set-aside acres, general farmstead areas, certain noncrop areas, and for forest management.

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order of Injunctive Relief in Washington Toxics Coalition et al vs. EPA CO1-132C (W.D.WA.). For information, please refer to www.epa.gov/espp/litstatus/wtc.

Mode of Action

BRUSH-RHAP® contains two active ingredients uniquely formulated to be used alone or tank mixed with other listed products as well as liquid fertilizer solutions. **BRUSH-RHAP**® is readily absorbed by plants through shoot and root uptake, translocates throughout the plant's system, and accumulates in areas of active growth. **BRUSH-RHAP**® interferes with the plant's growth hormones (auxins) resulting in death of many broadleaf weeds.

For best results, thoroughly clean sprayer equipment (tank, lines and nozzles) immediately after use by flushing system with water and heavy duty detergent or other suitable tank cleaner.

II. APPLICATION INSTRUCTIONS

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. Apply **BRUSH-RHAP**® at the rates and growth stages listed in **Tables 1 and 2** as follows unless instructed differently by section on **Food/Feed Crop Specific Information** or **Non-Food/Feed Use (Land Not Harvested, Grazed or Foraged) – Specific Information**. **BRUSH-RHAP**® may be applied using water or sprayable fluid fertilizer as a carrier. The most effective application rate and timing varies based on the target weed species (refer to **Tables 1 and 2**). In mixed populations of weeds the correct rate is determined by the weed species requiring the highest rate. Delaying application permits weeds to exceed the maximum size and will prevent adequate control. For certain specified applications, liquid fertilizer or oil may replace part or all of the water as diluent. If dry flowable (DF), wettable powder (WP), or flowable (F) tank mix products are to be used, these should generally be added to the spray tank first. Refer to the mixing directions on the labels of the tank mix products.

Irrigation:

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth.

CHEMIGATION PROHIBITION

Do not apply this product through any type of irrigation system.

Do not apply in greenhouses.

Spray Coverage:

Weeds must be thoroughly covered with spray. Dense leaf canopies shelter smaller weeds and prevent adequate spray coverage.

Sensitive Crop Precautions:

BRUSH-RHAP® may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes and other broadleaf plants when contacting their roots, stems or foliage. At high temperatures (about 85 degrees or higher), vapors from this product may cause injury to the aforementioned susceptible crops. These plants are most sensitive to **BRUSH-RHAP**® during their development or growing stage. Do not treat areas where either possible downward movement into the soil or surface washing may cause contact of **BRUSH-RHAP**® with the roots of desirable trees and shrubs.





AERIAL APPLICATION METHODS AND EQUIPMENT

Water Volume: Use 3–10 gallons of water per acre. Use the higher spray volume when treating dense or tall vegetation.

Application Equipment: Select nozzles designed to produce minimal amounts of fine spray particles. Make applications at the lowest stage height to reduce the exposure of spray droplets to evaporation and wind. The applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable State and local regulations and ordinances.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind directions, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Droplet Size

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a coarse or coarser spray, apply only as a coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a medium or more fine spray, apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downward. If applying a medium spray, leave one swath unsprayed at the downwind edge of the treated field.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

Other State and Local Requirements

Applicators must follow all State and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

For aerial application:

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

For ground boom application:

Do not apply with a nozzle height greater than 4 feet above the crop canopy.



Table 1. Application Rate and Timing – Annual Weeds

(For use in non-food/feed crops only: the addition of liquid fertilizer (28-0-0, 32-0-0) solutions at 1/2 the GPA spray solution has shown to give increased efficacy.)

Weeds Controlled (including ALS- and triazine-resistant)	Rate Per Acre (according to weed growth stage)					
	1/3 pint	2/3 pint	1 pint	1-1/8 pints	1-2/3 pints	2 pints
Beebalm, Spotted	–	–	–	pre-bloom	post-bloom	–
Broomweed	1-3"	3" branching	–	branching	–	after branching
Buckwheat, Wild	–	1-6"	–	–	–	–
Buffalobur	–	–	–	1-6"	–	flowering
Burdock	–	pre-flower	–	–	–	–
Buttercup	–	pre-flower	–	early bloom	late bloom	–
Chickweed, Common	–	Seedling	1-3"	–	–	–
Cockle, Cow	–	< 3"	–	–	–	–
Cocklebur, Common	–	1-6"	6-12"	12-18"	–	–
Coreopsis, Plains	1-4"	1-6"	–	–	–	–
Croton, Woolly	–	4-12"	12-30"	–	–	–
Dogfennel	–	–	–	10-15"	–	–
Evening Primrose	–	< 2"	–	2-6"	–	–
Flax	–	< 2"	–	–	–	–
Fleabane, Annual	–	1-4"	4-8"	8"	–	–
Fixweed	–	< 3"	–	–	–	–
Henbit	–	–	pre-flower	–	flower	–
Knotweed spp.	–	< 3" runners	–	> 3" runners	–	actively growing
Kochia	–	1-6"	6-10"	10-20"	–	actively growing
Lambsquarters, Common	–	1-6"	6-10"	10-20"	–	actively growing
Mallow, Common	–	< 3"	–	–	–	–
Morningglory, Ivyleaf	–	pre-flower	–	–	–	–
Morningglory, Tall	–	pre-flower	–	post-flower	–	–
Mustards, Annual	–	rosette	–	early bolt	–	–
Mustards, Tansy	–	< 3"	–	–	–	–
Pennycress, Field	–	–	–	rosette	–	–
Pepperweed, Virginia	–	–	1-3"	3-6"	after branching	–
Pigweed, Prostrate	–	< 3"	–	–	–	–
Pigweed, Redroot	–	< 3"	3-10"	–	–	–
Pigweed, Smooth	–	< 3"	–	–	–	–
Pigweed, Tumble	–	< 3"	–	mature	–	–
Poorjoe	–	prior to flower	–	–	–	actively growing

(continued)

Table 1. Application Rate and Timing – Annual Weeds (cont.)

Weeds Controlled (including ALS- and triazine-resistant)	Rate Per Acre (according to weed growth stage)					
	1/3 pint	2/3 pint	1 pint	1-1/8 pints	1-2/3 pints	2 pints
Purslane, Common	–	< 3"	3-8"	–	–	–
Ragweed, Common	–	–	–	>10"	–	–
Ragweed, Western Ragweed, Lanceleaf	1-3"	3-6"	6-10"	actively growing	–	–
Sedge ¹	–	–	–	–	–	–
Shepherdspurse	–	rosette	–	–	–	–
Smartweed, Pennsylvania	–	< 4"	–	–	4-12"	–
Sneezeweed, Bitter	–	1-4"	prior to flower	flower	–	–
Sowthistle	–	rosette	–	bolting	–	–
Sunflower	–	1-3"	3-6"	6-24"	–	–
Thistle, Russian	–	–	–	rosette	–	–
Velvetleaf	–	< 6"	6-20"	> 20"	–	–

¹For use in non-food/feed crop only. Adding crop oil concentrate has shown to improve performance on actively growing annual sedge.

Table 2. Application Rate and Timing – Biennial and Perennial Weeds

(The addition of liquid fertilizer (28-0-0, 32-0-0) at 1/2 the GPA of the spray solution has proven to give increased suppression or control on certain species of weeds.)

Weeds Controlled	Rate Per Acre (according to weed growth stage)					
	1/3 pint	2/3 pint	1 pint	1-1/8 pints	1-2/3 pints	2-3-1/4 pints
Bindweed, Field	–	–	–	–	–	actively growing
Bittercress	–	2-3"	–	–	–	–
Buckeye species ¹	–	–	–	–	full leaf	–
Bullnettle ²	–	–	–	flower	–	–
Chicory	–	–	–	–	early bolting	–
Clove, Bur	–	–	pre-flower	–	–	–
Dandelion, Common	–	rosette	–	bolting	–	–
Dewberry, Southern ¹	–	–	–	–	–	spring or fall
Dock, Curly	–	–	prior to bolting	–	after bolting	–
Elderberry ²	–	–	–	–	–	actively growing
Goldenrod, Missouri	–	–	–	3-15"	flower	–
Groundsel, Texas	–	rosette	post-bolting	–	–	–
Honeysuckle, Hairy	–	–	–	–	spring or fall	–
Horsenettle, Carolina ¹	–	–	–	–	–	flower or berry
Ivy, Poison	–	–	–	after bloom	–	–
Knapweed, Black ²	–	–	–	–	–	actively growing

(continued)

Table 2. Application Rate and Timing – Biennial and Perennial Weeds (cont.)

Weeds Controlled	Rate Per Acre (according to weed growth stage)					
	1/3 pint	2/3 pint	1 pint	1-1/8 pints	1-2/3 pints	2-3-1/4 pints
Knapweed, Russian ²	–	–	–	–	–	actively growing
Knapweed, Spotted	–	–	–	–	–	actively growing
Marshelder	–	–	–	<12"	12"/pre-bloom	–
Mesquite ³	–	–	–	–	–	45-90 days after budbreak
Milkweed, Antelopehorn ²	–	–	–	pre-flower	–	flower
Nightshade, Silverleaf ¹	–	–	–	full flower	–	–
Nightshade, Black ¹	–	–	–	full flower	–	actively growing
Persimmon, Eastern ³	–	–	–	–	–	actively growing
Prickly, Lettuce	–	–	–	rosette	–	actively growing
Rabbitbrush ²	–	–	–	–	–	–
Ragwort, Tansy	–	–	–	rosette	–	actively growing
Redvine ²	–	–	–	–	–	actively growing
Sagebrush, Fringed ²	–	–	–	–	–	actively growing
Smartweed	–	–	–	–	–	–
Sorrel, Red	–	–	rosette	bolting	flower	actively growing
Sowthistle ²	–	–	–	–	–	actively growing
Spurge, Leafy ²	–	–	–	–	–	full leaf
Tallow Tree, Chinese ⁴	–	–	–	–	–	–
Thistle, Bull	–	–	rosette	bolting	–	actively growing
Thistle, Canada ²	–	–	–	–	–	–
Thistle, Musk	–	–	–	rosette/bolting	–	–
Thistle, Plumelless	–	–	rosette	bolting	–	–
Vetch, Hairy	–	1-4"	4-8"	8" full flower	–	–
Yankeeeweed	–	–	–	10-18"	–	rosette
Yellow Starthistle ¹	–	–	–	–	–	–

¹ May require repeat applications.
² Recommended rate will provide top growth suppression only.
³ For improved root kill or woody species such as mesquite and eastern persimmon, spray 2 pints per acre of **BRUSH-RHAP**® each year for 3 consecutive years.
⁴ Under dense populations, a second application may be needed the following growing season.
For increased control of weeds such as blackberry and dewberry, **BRUSH-RHAP**® may be tank mixed with Ally® herbicide (0.1–0.2 ounce per acre), if labeled for the use site.



Ground Application (Banding)

When applying **BRUSH-RHAP**® herbicide by banding, determine the amount of herbicide and water volume needed using the following formula:

$$\begin{array}{l} \text{Bandwidth in inches} \\ \text{Row width in inches} \end{array} \times \begin{array}{l} \text{Broadcast rate} \\ \text{per acre} \end{array} = \begin{array}{l} \text{Banding herbicide} \\ \text{rate per acre} \end{array}$$

$$\begin{array}{l} \text{Bandwidth in inches} \\ \text{Row width in inches} \end{array} \times \begin{array}{l} \text{Broadcast} \\ \text{volume per acre} \end{array} = \begin{array}{l} \text{Banding water} \\ \text{volume per acre} \end{array}$$

Ground Application (Broadcast)

Water volume: Use 10–25 gallons of spray solution per broadcast acre for optimal performance. Use the higher spray volume when treating dense or tall vegetation.

Application Equipment: Select nozzle design to produce minimal amounts of fine spray particles. Spray nozzles as close to the weeds as is practical for good weed coverage.

Spot or Small Area Application

BRUSH-RHAP® may be applied to individual clumps or small areas of undesirable vegetation using handgun or similar types of application equipment. Apply diluted sprays to allow complete wetting (up to runoff) of foliage and stems. For knapsack or other small capacity sprayers, prepare a solution of **BRUSH-RHAP**® in water according to **Table 3** (assuming that the spot treatment rate equates to 40 gallons per acre on the broadcast basis). Adding a surfactant (0.5% by volume) can help improve control.

Do not make spot treatments in addition to broadcast or band treatments.

Application equipment: Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

Table 3. Knapsack Sprayer Dilution Instructions

Sprayer Capacity (gallons of water)	Amount of BRUSH-RHAP ® to add to the spray tank
1 gallon	2/3 fluid ounce*
3 gallons	2 fluid ounces
5 gallons	3 fluid ounces

*1 fluid ounce = 2 tablespoons

III. ADDITIVES

To improve burndown of emerged weeds, surfactants and/or low use rates of liquid fertilizers (28-0-0, 32-0-0) or crop oil concentrate may be used with **BRUSH-RHAP**® herbicide or **BRUSH-RHAP**® tank mixes applied after the weeds have emerged. Crop oil concentrate is for non-food/feed crop uses only. Do not apply tank mixes that include Ammonium Sulfate or Crop Oil Concentrate to any food/feed crop use listed on this label. For food/feed crop use, do not use liquid fertilizers that contain Ammonium Sulfate (AMS) as a source of nitrogen as tolerances in commodities derived from the crop may contain residues that exceed established tolerances.

Oil Concentrate

A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be non-phytotoxic
- contain only EPA-exempt ingredients
- provide good mixing quality in the jar test, and
- be successful in local experience

The exact composition of suitable products will vary; however, vegetable oil and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For additional information, see **Compatibility Test for Mix Components**.





Nitrogen Source

Sprayable liquid fertilizers: Use 1/2 GPA of sprayable liquid fertilizers (28-0-0, 32-0-0) per acre. Do not use brass or aluminum nozzles when spraying fertilizers.

Non-ionic Surfactant

The standard label recommendation is 2–4 pints of an 80% active non-ionic spray surfactant per 100 gallons of water. (Rate will vary with the size and condition of weeds to be controlled. Use lowest rate per 100 gallons when weeds are small and actively growing. As weeds increase in size and/or become hardened off, the rate of non-ionic surfactant will have to be increased to give optimum coverage and control.)

Table 4. Additive Rate Per Acre

Additive ¹	Rate Additive Per Acre
Non-ionic Surfactant	2 – 4 pints per 100 gallons ²
Sprayable Liquid Fertilizers (28-0-0, 32-0-0)	1/2 GPA of spray solution
Crop Oil Concentrate	1 quart

¹ See manufacturer's label for specific rate recommendations.
² Use lowest rate per 100 gallons when weeds are small and actively growing. As weeds increase in size and/or become hardened off, the rate of non-ionic surfactant will have to be increased to give optimum coverage and control.

IV. GENERAL TANK MIXING INFORMATION

Tank Mix Partners/Components

Do not tank mix **BRUSH-RHAP** with any other product that contains 2,4-D and/or dicamba.

The following products may be tank mixed with **BRUSH-RHAP** according to the specific tank mixing instructions in this label and respective product labels.

- Aim™ (carfentrazone-ethyl)
- Ally® (metsulfuron-methyl)
- Amber® (triasulfuron)
- Asulox® (asulam)
- Atrazine
- Basagran® (bentazon)
- Bronate® (bromoxynil + MCPA)
- Buctril® (bromoxynil)
- Canvas® (thifensulfuron-methyl + tribenuron-methyl + metsulfuron-methyl)
- Cyclone® (paraquat)
- Dakota® (fenoxaprop-p-ethyl + MCPA)
- Evik® (ametryn)
- Express® (tribenuron-methyl)
- Finesse® (chlorsulfuron + metsulfuron-methyl)
- Glean® (chlorsulfuron)
- Gly Star™ Plus (glyphosate)
- Gramoxone® Extra (paraquat)
- Harmony® Extra (thifensulfuron-methyl + tribenuron-methyl)
- Karmex® (diuron)
- Kerb™ (pronamide)
- Laddok® S-12 (bentazon + atrazine)
- MCPA
- Paramount® (quinclorac)
- Peak® (prosofuron)
- Permit® (halosulfuron-methyl)
- Roundup® Ultra (glyphosate)
- Sencor® (metribuzin)
- Sinbar® (terbacil)
- Stinger™ (clopyralid)
- Tordon™ (picloram)
- Touchdown® (glyphosate)

Read and follow the applicable **Restrictions and Limitations** and **Directions for Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes. Physical incompatibility or reduced weed control may result from mixing **BRUSH-RHAP** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers.



Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test.

For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of specified label rate per acre.

Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is still incompatible, do not mix the ingredients in the same tank.

Mixing Order

If an inductor is used, rinse it thoroughly after each component has been added. Maintain constant agitation during application.

1. Water. Begin by agitating a thoroughly clean sprayer tank half full of clean water.
2. Agitation. Maintain constant agitation throughout mixing and application.
3. Products in PVA bags. Place any product contained in water-soluble bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
4. Water-dispersible products (such as dry flowables, wettable powders, suspension concentrates, and suspo-emulsions).
5. Water-soluble products (such as **BRUSH-RHAP**®).
6. Emulsifiable concentrates (such as oil concentrate, when applicable).
7. Water-soluble additives (such as liquid fertilizers [28-0-0, 32-0-0], when applicable).*
8. Remaining quantity of water.

*If sprayable fluid fertilizer is used as the carrier.

Always perform the **Compatibility Test** before mixing into the spray tank. Also, when using a sprayable fluid fertilizer as the carrier, any product contained in PVA bags must first be completely dissolved in water before the contents can be added to the fertilizer mix.

V. RESTRICTIONS AND LIMITATIONS

- Maximum seasonal use rate: Refer to **Table 5**.
- Preharvest Interval (PHI): Refer to **Food/Feed Crop Specific Information**.
- Restricted-Entry Interval (REI): 48 Hours
- **Arid (dry) conditions:** It is extremely important that the addition of a suitable Nonionic Surfactant, Oil, or sprayable fertilizer be used when applying **BRUSH-RHAP**®. The maximum allowable application rate of **BRUSH-RHAP**® may be needed to control susceptible weeds in this environment.
- **Rainfast Period:** Rainfall or irrigation occurring within 4 hours after postemergence applications may reduce effectiveness of **BRUSH-RHAP**®.
- **Stress:** Do not apply to crops under stress such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, as unsatisfactory control may result.
- Do not apply to crops that show injury (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.
- Do not apply this product through any type of irrigation equipment. Do not contaminate irrigation ditches or water used for domestic purposes.
- This product cannot be used to formulate or reformulate another pesticide product.

Crop Rotational Restrictions: The interval between application and planting rotational crop is given below. Always exclude counting days when the ground is frozen. Planting at intervals less than specified below may result in crop injury. Moisture is essential for the degradation of this herbicide in soil.



CROP	MINIMUM DAYS PLANTBACK INTERVAL (Areas > 1/2" rainfall or irrigation after application)*			MINIMUM DAYS PLANTBACK INTERVAL (Areas < 1/2" rainfall or irrigation after application)		
	2/3 – 1 pint/A	> 1 – 3-1/2 pints/A	> 3-1/2 pints/A	2/3 – 1 pint/A	> 1 – 3-1/2 pints/A	> 3-1/2 pints/A
Corn	14	21	120	30	60	120
Cotton	21	45	120	30	90	120
Barley, Oats, Wheat and other small grains	14	21	120	21	60	120
Sorghum	14	21	120	30	60	120
Soybean	30	45	120	45	90	120
All other crops	120	120	DO NOT ROTATE	120	120	DO NOT ROTATE

*NOTE: A cumulative 1/2 inch of rainfall or irrigation must occur in 2 or less rainfalls and/or irrigations before calculating plant-back interval.

VI. FOOD/FEED CROP-SPECIFIC INFORMATION

If grasses are grown for seed or for seed-down purposes, do not apply after grass reaches joint stage.

Table 5.

Crop	Maximum Rate Per Acre Per Application	Maximum Rate Per Acre Per Season	Livestock Grazing or Feeding ¹	Aircraft Application
Between Crop Applications	3-2/3 pints	4 pints	Yes	Yes
Pasture, Hay, Silage	2-1/2 pints	4 pints	Yes	Yes
Sorghum	2/3 pint	2/3 pint	Yes	Yes
Wheat	1-1/4 pints	2 pints	Yes	Yes
Sugarcane	4 pints	4 pints	Yes	Yes

¹Refer to specific crop sections for grazing and feeding restrictions.

PASTURES, RANGELAND and GRASS (Hay, Silage)

BRUSH-RHAP® is recommended for use for pasture (including pasture grown for hay), rangeland, grass grown for hay or silage, fallow systems, Conservation Reserve Programs, and general farmstead (non-cropland only).

Refer to **Tables 1** and **2** for rate selection based on targeted weed or brush species. Some weed species will require tank mixes for adequate control.

Rates above 2-1/2 pints of **BRUSH-RHAP**® per acre are for spot treatments only.

Retreatments may be made as needed; however, do not exceed a total of 4-3/4 pints of **BRUSH-RHAP**® per treated acre during a growing season. Do not reapply for a minimum of 30 days.

Uses described in this section also pertain to small grains (such as barley, corn, forage sorghum, oats, rye, sudangrass, or wheat) grown for pasture, hay, and silage only. Newly seeded areas including small grains grown for pasture or hay, may be injured if rates of **BRUSH-RHAP**® are greater than 1-1/4 pints per acre are applied.



In newly established hybrid Bermudagrass, Pangolagrass, and stargrasses (*Cynodon* spp.) use 1 to 2 pints of **BRUSH-RHAP**® per acre to control or suppress weeds after planting vegetative propagules (stolons) of hybrid bermudagrasses. In addition to the weeds listed in **Tables 1 and 2**, this rate of **BRUSH-RHAP**® will control or suppress annual sedges, broadleaf signalgrass, crabgrass, and goosegrass. Best results will be obtained if **BRUSH-RHAP**® is applied at the germinating stage of weeds. Under favorable conditions, this is usually 7–10 days after planting these grasses. Reduced control can be expected if weeds are allowed to reach 1" in height before application or if germination of weeds occurs 10 days after application.

Do not use on bentgrass, susceptible grass pastures (such as carpetgrass, buffalograss, or St. Augustine grass), lespedeza, wild winter peas, vetch, clover, and alfalfa pastures as injury will occur.

When perennial weeds are reaching maturity, mowing and allowing some regrowth will enhance control. Difficult-to-control weeds may require a repeat application.

For pasture renovations, wait 3 weeks per 1-1/4 pints of **BRUSH-RHAP**® used per acre before interseeding or injury may occur. Retreatments may be made as needed; however, do not exceed a total of 4-3/4 pints of **BRUSH-RHAP**® per treated acre during a growing season. Do not reapply for a minimum of 30 days.

Do not use on bentgrass, susceptible grass pastures (such as carpetgrass, buffalograss, or St. Augustine grass), lespedeza, wild winter peas, vetch, clover, and alfalfa pastures as injury will occur.

When perennial weeds are reaching maturity, mowing and allowing some regrowth will enhance control.

Difficult-to-control weeds may require a repeat application.

If grasses are grown for seed or for seed-down purposes, do not apply after grass reaches joint stage.

Grazing and Feeding Non-Lactating Animals: There is no waiting period between treatment and grazing for non-lactating animals. Do not permit meat animals being finished for slaughter to graze treated fields within 30 days of slaughter.

Grazing and Feeding Lactating Animals: Do not graze lactating dairy animals within 7 days of treatment.

Dry hay and Silage: Treated grasses may be harvested for dry hay or silage but do not harvest within 7 days of treatment.

Pasture and Rangeland Tank Mixes

BRUSH-RHAP® may be applied in tank mixes with one or more of the following herbicides:

Ally®
Amber®

Pastures, Rangeland, and Grass (Hay, Silage) Restrictions:

- PHI for grass forage: 0 days
- PHI for grass hay: 7 days
- Maximum of 2 applications per year.
- Minimum of 30 days between applications.
- Do not cut forage for hay within 7 days of application.

SORGHUM

Rates and Timings

Apply 2/3 pint of **BRUSH-RHAP**® per acre to sorghum in the 3- to 5-leaf stage (4"–8" tall). For best performance, apply when weeds are small (less than 3" tall).

Applications of **BRUSH-RHAP**® to sorghum during periods of rapid growth may result in temporary leaning of plants or rolling leaves. These effects are usually outgrown within 10–14 days. Sorghum growing under conditions of stress such as high moisture, low fertility, and abnormal temperature may be more sensitive to applications of **BRUSH-RHAP**®. Do not use surfactants or oils with postemergence applications of **BRUSH-RHAP**® on sorghum crops. Do not use **BRUSH-RHAP**® if the potential for sorghum injury is not acceptable.

If sorghum is grown for pasture, hay or silage, refer to **Pastures, Rangeland and Grass (Hay, Silage)** under **VI. Food/Feed Crop-Specific Information** for livestock grazing and feeding restrictions.

Do not apply **BRUSH-RHAP**® to sorghum grown for seed production.





Make no more than one postemergence application per growing season.

Do not make more than 1 application per crop cycle.

Do not harvest for grain or fodder within 30 days of application.

Sorghum Tank Mixes

BRUSH-RHAP® may be applied in tank mixes with one or more of the following herbicides:

Atrazine	Laddock® S-12	Peak®
Basagran®	Paramount®	Permit®
Buctril®		

Sorghum Restrictions:

- Do not permit meat or dairy animals to consume treated crop as fodder or forage for 30 days following application.
- PHI for sorghum grain and fodder: 30 days
- PHI for sorghum forage: 0 days

SUGARCANE

Applications of **BRUSH-RHAP**® can be made any time after the weeds have emerged and are actively growing but prior to the close-in stage of sugarcane. When possible, direct the spray beneath the sugarcane canopy in order to minimize the likelihood of crop injury. The use of directed sprays will also aid in maximizing spray coverage of weed foliage. Application rates and timing are given below. Use the higher level of listed rate ranges when treating dense vegetative growth.

- For control of listed **ANNUAL** broadleaf weeds, apply 1 quart of **BRUSH-RHAP**® per treated acre.
- For suppression of listed **PERENNIALS**, apply 1–2 quarts of **BRUSH-RHAP**® per treated acre.

Retreatments may be made as needed; however, do not exceed 4 quarts of **BRUSH-RHAP**® per treated acre during a growing season.

SUGARCANE Tank Mixes: **BRUSH-RHAP**® may be tank mixed with one or more of the following herbicides: Asulox, Atrazine, Evik, Sencor, Sinbar.

Sugarcane Restrictions:

- Do not harvest sugarcane prior to harvest maturity.
- Do not apply within 87 days of harvest.
- Do not graze lactating dairy animals within 7 days of treatment.
- Do not apply through any type of irrigation system.
- Do not make more than one preemergence application per crop cycle.
- Do not make more than one postemergence application per crop cycle.
- Do not exceed a total of 4 quarts of **BRUSH-RHAP**® per treated acre per crop cycle.
- If applied with other products containing 2,4-D, either as a tank mix or separately during same growing season, do not exceed 4.0 lbs. of 2,4-D acid equivalent per crop cycle.
- If applied with other products containing dicamba, either as a tank mix or separately during same growing season, do not exceed 2.0 lbs. of dicamba acid equivalent per crop cycle.

WHEAT (Fall- and Spring-Seeded)

If small grains are grown for pasture or hay only, refer to **Pastures, Rangeland and Grass (Hay, Silage)**. Do not graze or harvest for livestock feed prior to crop maturity.

Do not use **BRUSH-RHAP**® in wheat underseeded with legumes.

EARLY SEASON APPLICATION:

Apply 1.0 pint of **BRUSH-RHAP**® per acre to wheat unless using one of the wheat-specific programs below.

Early season applications to spring-seeded wheat must be made after tillering and before wheat reaches the 6-leaf stage.

Early season applications to fall-seeded wheat must be made after tillering and prior to the jointing stage. Care should be taken in staging early developing wheat varieties such as TAM 107, Madison, or Wakefield to be certain that the application occurs prior to the jointing stage.





SPECIFIC USE PROGRAMS FOR FALL-SEEDED WHEAT ONLY:

Up to 3/4 pint of **BRUSH-RHAP**® per acre may be applied on fall-seeded wheat after the wheat begins to tiller for suppression of perennial weeds, such as field bindweed. Applications may be made in the fall following a frost but before a killing freeze. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury. For fall applications only, do not use if the potential for crop injury is not acceptable.

PREHARVEST APPLICATIONS:

BRUSH-RHAP® can be used to control weeds that may interfere with harvest of wheat. Apply up to 1-1/4 pints of **BRUSH-RHAP**® per acre as a broadcast or spot treatment to annual broadleaf weeds when wheat is in the hard dough stage and the green color is gone from the nodes (joints) of the stem. Best results will be obtained if application can be made when weeds are actively growing but before weeds canopy. A waiting interval of 14 days is required before harvest. Do not use preharvest-treated wheat for seed unless a germination test is performed on the seed with an acceptable result of 95% germination or better. For control of additional broadleaf weeds or grasses, **BRUSH-RHAP**® may be tank mixed with other herbicides such as Ally® or GlyStar™ Plus that are registered for preharvest use in wheat.

Preharvest use of **BRUSH-RHAP**® is not registered for use in California.

Table 6. Wheat Tank Mixes

TANK MIX PARTNER	RATE PER ACRE
Aim™	0.3 ounce
Ally®	0.05 – 0.1 ounce
Amber®	0.14 – 0.28 ounce
Bronate®	0.75 – 1.5 pints
Buctril®	1 – 1.5 pints
Canvas®	0.2 – 0.4 ounce
Curtail™	2 – 2.67 pints
Dakota®	16 fluid ounces
Express®	0.083 – 0.167 ounce
Finesse®	0.167 – 0.33 ounce
Glean®	0.167 ounce
Harmony® Extra	0.167 – 0.33 ounce
Karmex®	0.5 – 1.5 pounds
Metribuzin (Sencor®)	0.25 – 0.375 pounds a.i.
Peak®	0.25 – 0.38 ounce
Stinger™	4 – 5.33 fluid ounces

¹ Do not use low rates of sulfonyleurea herbicide, such as Ally®, Amber®, Canvas®, Express®, Finesse®, Glean®, Harmony® Extra, and Peak® on more mature weeds or on dense vegetative growth.

² Do not use as a tank mix treatment with Dakota® or on durum wheat.

³ Tank mixes with Karmex® and metribuzin are for use in fall-seeded wheat only.

Fallow Systems, Conservation Reserve Programs, and General Farmstead

These uses are considered Food/Feed Crops when harvested, grazed or foraged. Consult section on **General Tank Mixing Information** for adjuvant restrictions and section on **Additives** for specific use directions.

Wheat Restrictions:

Postemergence:

- Limited to one postemergence application per crop cycle

Preharvest

- Limited to one preharvest application per crop cycle.





VII. NON-FOOD/FEED USE (Land Not Harvested, Grazed or Foraged) – SPECIFIC INFORMATION

BETWEEN CROP APPLICATIONS

PREPLANT DIRECTIONS (POSTHARVEST, FALLOW, CROP STUBBLE, SET-ASIDE) FOR BROADLEAF WEED CONTROL

BRUSH-RHAP® can be applied postharvest in the fall, spring, or summer during the fallow period or to crop stubble/set-aside acres. Apply to weeds after crop harvest (postharvest) and before a killing frost or in the fallow cropland or crop stubble the following spring or summer.

See **V. Restrictions and Limitations** for the specified interval between application and planting to prevent crop injury.

Rates and Timings:

Apply 1–3-2/3 pints of **BRUSH-RHAP**® per acre. Refer to **Tables 1 and 2** to determine use rates for specific targeted weed species. Retreatments may be made as needed; however, do not exceed a total of 4-3/4 pints of **BRUSH-RHAP**® per treated acre during a growing season. For best performance, apply **BRUSH-RHAP**® when annual weeds are less than 6" tall, when biennial weeds are in the rosette stage, and to perennial weed regrowth in late summer or fall following a mowing or tillage treatment. The most effective control of upright perennial broadleaf weeds such as Canada thistle and Jerusalem artichoke occurs if **BRUSH-RHAP**® is applied when the majority of weeds have at least 4–6" of regrowth or for weeds such as field bindweed and hedge bindweed that are in or beyond the full bloom stage. The addition of liquid fertilizers (28-0-0, 32-0-0) at 1/2 GPA has shown to increase efficacy.

Avoid disturbing treated areas following application. Treatments may not kill weeds that develop from seed or underground plant parts such as rhizomes or bulblets, after the effective period for **BRUSH-RHAP**®. For seedling control, a follow-up program or other cultural practices could be instituted.

There is a 30-day minimum application interval.

Between Crop Tank Mixes:

In tank mixes with one or more of the following herbicides, apply 1.0–1.25 pints of **BRUSH-RHAP**® per acre for control of annual weeds, or 1.25–4 pints of **BRUSH-RHAP**® per acre for control of biennial and perennial weeds.

- Aim™
- Ally®
- Amber®
- Atrazine
- Cyclone®
- Finesse®
- Glyphosate (GlyStar™ Plus)
- Gramoxone® Extra
- Kerb™
- Paramount®
- Sencor®
- Tordon™ 22K
- Touchdown®

APPLICATIONS TO FALLOW GROUND PRIOR TO PLANTING COTTON

Rates and Timings

Apply **BRUSH-RHAP**® as a broadcast or spot treatment to emerged and actively growing weeds at the rate of 1 to 3-2/3 pints per acre. The most effective control of weeds occurs if application is made when weeds are in the 2- to 4-leaf stage and rosettes are less than 2" across.

Cropping Restrictions

Refer to the **Crop Rotational Restrictions Table** in **Section V. RESTRICTIONS AND LIMITATIONS** for appropriate pre-plant application intervals for cotton.

Tank Mix Treatments

For control of grasses or additional broadleaf weeds, OUTLAW may be tank mixed with Caprol®, Gramoxone® Extra, and glyphosate herbicides.

Fallow Ground Restrictions:

- Only labeled crops can be planted within 30 days of treatment.
- Limited to 2 applications per year.
- Minimum of 30 days between applications.



FOREST MANAGEMENT

Do not apply under drip line of desirable trees or adjacent to desirable vegetation. Limited to one broadcast application per year.

Forest Site Preparation

Budbreak Spray: For control of alder, susceptible broadleaf weeds, and susceptible woody plants before planting forest seedlings, apply up to 2 quarts per acre in a minimum of 10 gallons spray mixture per acre. Apply as an oil spray (see **Mixing Instructions**) after alder buds break, but before foliage is 1/4 full size. A water spray including 2 to 4 quarts per acre of diesel oil, fuel oil, stove oil, or crop oil concentrate may also be used.

Foliage Spray: To control alder and susceptible woody plants before planting forest seedlings, apply up to 2 quarts per acre in a minimum of 10 gallons spray mixture per acre. If desired, apply as a water spray including up to 1 quart of diesel oil, fuel oil, stove oil, or crop oil concentrate per gallon of water (see **Mixing Instructions**). For best results, apply after alder foliage has reached full size.

Conifer Release: Some conifers are more susceptible to **BRUSH-RHAP**[®] than others. Prior to application, consult your local Forestry agency about use pattern and history of use. To control alder, susceptible broadleaf weeds, and susceptible woody plants in young conifer stands, apply up to 2 pints per acre in a minimum of 10 gallons spray mixture per acre. This spring foliage treatment should be applied as a water spray when 3/4 of the brush foliage has full-size leaves and before new conifer growth reaches 2 inches in length. Such stages usually occur between early May and mid-June, but application timing should be based on growth stages of brush and conifers. Application may cause leader deformation and other conifer injury, but trees should overcome it during the next growing season.

To control tanoak, madrone, ceanothus, canyon live oak, and manzanita, and to release Douglas fir, hemlock, Sitka spruce or grand fir, apply up to 3 pints per acre in a minimum of 10 gallons spray mixture per acre. This spring foliage treatment should be applied as a water spray including, if desired, up to 1 quart of diesel oil, fuel oil, stove oil, or crop oil concentrate per gallon of water (see **Mixing Instructions**). Make application before new growth on Douglas fir is 2 inches long. To release ponderosa pine from the same species, treat before new pine growth begins in the spring. Addition of oil or oil concentrate may cause unacceptable injury to pines. For dormant applications in late winter or early spring for control of susceptible woody species such as alder, willow, poplars, cherry, vine maple, ceanothus, tanoak, madrone, and manzanita, apply up to 3 pints per acre in a minimum of 10 gallons spray mixture per acre. This dormant treatment should be applied in diesel oil, fuel oil, stove oil, or other suitable diluent such as water plus crop oil concentrate (see **Mixing Instructions**). Do not use in plantations where pine and larch are among the desired crop species.

To control hazel brush in the Lake states, apply up to 2 pints per acre in a minimum of 10 gallons spray mixture per acre. Apply as a water spray when new shoot growth of hazel is complete (usually mid-July).

After conifer species such as white pine, ponderosa pine, jack pine, red pine, black spruce, white spruce, red spruce, and balsam fir cease growth and harden off and brush is still actively growing in late summer, apply up to 3 pints per acre in a minimum of 10 gallons spray mixture per acre. Apply as a water spray to control certain competing hardwoods such as alder, aspen, birch, hazel and willow. However, if possible injury cannot be tolerated, do not use since this treatment may cause conifer injury.

Forest Roadsides: To control susceptible broadleaf weeds and woody plants on forest roadsides, apply 1 to 3 pints per acre in a minimum of 10 gallons spray mixture per acre. Apply as a water spray and, if desired, include up to 3 quarts per acre of diesel oil, fuel oil, stove oil, or crop oil concentrate (see **Mixing Instructions**). Apply when sufficient foliage is present for absorption.



**ROADSIDES; MEDIANS; HIGHWAY, RAILROAD, UTILITY AND PIPELINE
RIGHTS-OF-WAY; VACANT LOTS; AROUND UTILITY INSTALLATIONS,
TRANSFORMERS, PUMP HOUSES, AND BUILDINGS; STORAGE AREAS;
FENCES; GUARDRAILS; LUMBER YARDS; INDUSTRIAL SITES; AIRPORTS;
TANK FARMS; FARMSTEADS; AND SIMILAR NONCROP AREAS**

Do not apply under drip line of desirable trees or adjacent to desirable vegetation.

For control of many broadleaf weeds and small woody plants, apply 2/3 to 2 pints per acre. Use the high rate for woody plants. Applications may be as broadcast sprays, small area sprays or spot treatments. For small areas or spot spraying, use 2 fluid ounces per gallon of water and spray weeds to runoff. Regardless of the method of application, use adequate spray volume for full coverage of weeds. Preferred application timing is in the early spring when sufficient weeds have emerged, and when weeds are small and actively growing, but before weeds are too mature. Summer applications to older, drought-stressed weeds are less effective. However, weeds are more susceptible again in the fall when cooler, wetter conditions support active growth before a killing frost. For fall treatment of mature weeds or perennial weed regrowth, use up to 1 pint per acre. Several seasons of spring plus fall treatments may be necessary to control certain perennials. Use of oil sprays or the addition of spray adjuvants increases the risk of damage to desirable ground covers.

Plant Response: Bentgrass, other warm season or southern grasses, alfalfa, clover, or other legumes may be killed or injured. Do not apply when grass is in boot to milk stage, or after heading begins, if grass production is desired. Do not apply to newly seeded areas until grass is well established. Reseeding is not recommended for at least 30 days following application.

Do not apply more than 4-3/4 pints/acre for a single application (equivalent to 1.4 lbs. 2,4-D acid and 1.1 lbs. dicamba acid per acre).

Non-Crop Area Restrictions:

Postemergence (annual and perennial weeds):

- Limited to 2 applications per year.
- Minimum of 30 days between applications.

Postemergence (woody plants):

- Limited to 1 application per year.

CONSERVATION RESERVE PROGRAMS AND GENERAL FARMSTEAD

BRUSH-RHAP[®] is recommended for use for Conservation Reserve Programs, general farmstead (non-cropland only), weed and brush control, or use in State Recognized Noxious Weed areas (non-cropland areas).

Refer to **Tables 1** and **2** for rate selection based on targeted weed or brush species. Some weed species will require tank mixes for adequate control.

Rates above 2-1/2 pints of **BRUSH-RHAP**[®] per acre are for spot treatments only.

Retreatments may be made as needed; however, do not exceed a total of 4 pints of **BRUSH-RHAP**[®] per treated acre during a growing season.

Limited to 2 applications per year. Minimum of 30 days between applications.

Farmstead and Fence-row Treatment Application Instructions

BRUSH-RHAP[®] may be applied using water or oil and water emulsions in spot application to control undesirable vegetation using handgun or similar types of application equipment. In addition to weed species listed in **Tables 1** and **2**, these treatments may be used to control or suppress woody plant species listed in **Table 7**.

To prepare soil and water emulsions, mix in the order and proportions indicated below.

The solution should remain milky colored without an oily layer on top when under agitation. If an oily layer forms, increase the amount of emulsifier or change to a more effective emulsifier.





Do not exceed 40 gallons of spray solution per treated acre per application. 4-3/4 pints of **BRUSH-RHAP®** in 40 gallons of spray solution contains 1.1 pounds acid equivalent of dicamba and 1.4 pounds acid equivalent of 2,4-D. Spray plants to wet. Do not allow this spray mix to contact desirable vegetation.

To control brush, briars, and weeds along fence-rows surrounding pasture and ranch lands, and fallow fields, use a tank mix of 1.5% **BRUSH-RHAP®**, 88.5% water, 10% diesel oil, and sufficient emulsifier (to mix the diesel and emulsifier). The diesel oil in this tank mix will damage or kill desirable grasses and should not be used in pastures or where damage to desirable species cannot be tolerated.

1. Water: Begin by agitating a thoroughly clean sprayer tank with the desired quantity of clean water. Maintain constant agitation during complete mixing procedure.
2. Emulsifier: Add 0.5% volume to volume of water.
3. **BRUSH-RHAP®**: add 1.5 gallons per 100 gallons of total intended solution.
4. Diesel Oil: Add 10 gallons per 100 gallons of total intended solution.

Maintain constant agitation during application. Under good agitation, the spray solution should be milky white with no oil layer on top. If oil layer forms, increase the amount of emulsifier or change to a more effective emulsifier.

FOR SPRAYING FOLIAR APPLICATIONS:

1. Spray when leaves have reached full size but have not hardened due to drought or maturity.
2. Spray individual plants to wet with handgun.
3. For larger stems (up to 3" in diameter) and hard-to-control species, direct spray stream to base of stems to wet the stem at soil surface in addition to wetting the foliage.
4. Do not apply under drip line of desirable trees or adjacent to desirable vegetation.

FOR DORMANT BASAL APPLICATIONS:

1. Increase diesel oil content to 15% or 15 gallons of diesel oil per 100 gallons of total solution.
2. Spray in late winter and early spring before plants break dormancy.
3. Spray the bottom 24" of the target stem to wet on all sides.
4. For larger stems (up to 3" in diameter) and hard-to-kill species, direct the spray solution to the base of target stems to wet the soil at the stem/soil junction in addition to wetting the stem.
5. Do not apply under drip line of desirable trees or adjacent to desirable vegetation.

FOR CUT SURFACE TREATMENTS:

Apply **BRUSH-RHAP®** in an undiluted state as a cut surface treatment to control unwanted trees and prevent sprouts of cut trees.

- **Frill or Girdle Treatments:** Make a continuous cut or a series of overlapping cuts using an axe to girdle tree trunk. Spray or paint the cut surface with **BRUSH-RHAP®**.
- **Stump Treatments:** Spray or paint freshly cut surface with **BRUSH-RHAP®**. The cambium layer (the area adjacent to the bark) should be thoroughly wet. Treat stumps within 6 hours after cutting.



Table 7. The following list of trees and vines can be controlled on farmsteads and fencerows as foliar, basal, or cut-surface treatments:

Alder	Creosotebush	Honeysuckle	Olive, Russian	Sassafras
Ash	Dewberry	Hornbeam	Persimmon, Eastern	Spruce
Aspen	Dogwood	Huckleberry	Pine	Sumac
Basswood	Elm	Huisache	Plum, Sand	Sweetgum
Beech	Grape	Ivy, Poison	(Wild Plum)	Sycamore
Blackberry	Greenbriar	Kudzu	Poplar	Tarbrush
Blackgum	Hawthorn	Locust, Black	Rabbitbrush	Willow
Cedar	(Thornapple)	Maple	Redcedar, Eastern	Witch hazel
Cherry	Hemlock	Mesquite	Rose, McCartney	Yaupon
Chinquapin	Hickory	Oak	Rose, Multiflora	Yucca
Cottonwood	Honeylocust	Oak, Poison	Sagebrush, Fringe	

Weeds listed in this label:

ANNUALS	
Common Name	Scientific Name
Beebalm, Spotted	<i>Monarda punctata</i>
Broomweed, Common	<i>Gutierrezia dracunculoides</i>
Buckwheat, Wild	<i>Polygonum convulvulus</i>
Buffalobur	<i>Solanum rostratum</i>
Burdock	<i>Arctium</i> spp.
Buttercup, Corn	<i>Ranunculus arvensis</i>
Chickweed, Common	<i>Stellaria media</i>
Cockle, Corn	<i>Agrostemma githago</i>
Cocklebur, Common	<i>Xanthium strumarium</i>
Coreopsis, Plains	<i>Coreopsis tinctoria</i>
Croton, Woolly	<i>Croton capitatus</i>
Devilsclaw	<i>Proboscidea luisianica</i>
Dogfennel (Cypressweed)	<i>Eupatorium capillifolium</i>
Evening primrose, Cutleaf	<i>Oenothera lacinata</i>
Flax	<i>Linum catharticum</i>
Fleabane, Annual	<i>Erigeron annuus</i>
Flixweed	<i>Descurainia sophia</i>
Henbit	<i>Lamium amplexicaule</i>
Knotweed, Prostrate	<i>Polygonum aviculare</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Lettuce, Prickly	<i>Lactuca serriola</i>
Mallow, Common	<i>Malva neglecta</i>
Morningglory, Ivyleaf	<i>Ipomea hederacea</i>
Morningglory, Tall	<i>Ipomea purpurea</i>
Mustard, Annual	<i>Brassica</i> spp.
Mustard, Tansy	<i>Descurainia pinnata</i>
Pennycress, Field	<i>Thlaspi arvense</i>
Pepperweed, Virginia	<i>Lepidium virginicum</i>
Pigweed, Prostrate	<i>Amaranthus blitoides</i>
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
Pigweed, Smooth	<i>Amaranthus hybridus</i>

(continued)



ANNUALS (cont.)	
Common Name	Scientific Name
Pigweed, Tumble	<i>Amaranthus albus</i>
Poorjoe	<i>Diodia teres</i>
Purslane, Common	<i>Portulaca oleracea</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Ragweed, Lanceleaf	<i>Ambrosia bidentata</i>
Ragweed, Western	<i>Ambrosia psilostachya</i>
Sedge	<i>Cyperus compressus</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Sneezeweed, Bitter	<i>Helenium amurum</i>
Sunflower, Common (wild)	<i>Helianthus annuus</i>
Thistle, Russian	<i>Salsola iberica</i>
BIENNIALS and PERENNIALS	
Common Name	Scientific Name
Bindweed, Field	<i>Convolvulus arvensis</i>
Bittercress	<i>Cardamine</i> spp.
Buckeye	<i>Aesculus</i> spp.
Bullnettle	<i>Cnidoculus stimulosus</i>
Chicory	<i>Cichorium intybus</i>
Clover, Hop	<i>Trifolium aureum</i>
Dandelion	<i>Taraxacum officinale</i>
Dock, Curly	<i>Rumex crispus</i>
Elderberry	<i>Sambucus canadensis</i>
Goldenrod, Missouri	<i>Solidago missouriensis</i>
Goldenweed, Common	<i>Isocoma coronopifolia</i>
Groundsel	<i>Senecio vulgaris</i>
Honeysuckle, Hairy	<i>Lonicera</i>
Horsenettle	<i>Solanum carolinense</i>
Ivy, Poison	<i>Rhus radicans</i>
Knapweed, Black	<i>Centaurea nigra</i>
Knapweed, Russian	<i>Centaurea repens</i>
Knapweed, Spotted	<i>Centaurea maculosus</i>
Marshelder	<i>Ina annua</i>
Mesquite	<i>Prosopis juliflora</i>
Milkweed, Antelopehorn	<i>Asclepius</i>
Nightshade, Silverleaf	<i>Solanum elaeagnifolium</i>
Nightshade, Black	<i>Solanum nigrum</i>
Persimmon, Eastern	<i>Diospyros virginiana</i>
Rabbitbrush	<i>Chrysanthemum pulchellus</i>
Ragwort, Tansy	<i>Senecio jacobia</i>
Redvine	<i>Brunnichia ovata</i>
Sagebrush, Fringed	<i>Artemisia frigida</i>
Smartweed, Swamp	<i>Polygonum coccineum</i>
Sorrel, Red (Sheep Sorrel)	<i>Rumex acetosella</i>
Sowthistle, Perennial	<i>Sonchus arvensis</i>
Spurge, Leafy	<i>Euphorbia esula</i>
Starthistle, Yellow	<i>Centaurea solstitialis</i>

(continued)





BIENNIALS and PERENNIALS (cont.)

Tallow Tree, Chinese
 Thistle, Bull
 Thistle, Canada
 Thistle, Musk
 Thistle, Plumeless
 Vetch
 Yankeeweed

Sapium sebiferum
Cirsium vulgare
Cirsium arvense
Carduus nutans
Carduus acanthoides
Vicia spp.
Eupatorium compositifolium

Food/Feed Crop Uses

This product can be used on the following:

- Conservation Reserve Program Land
- Fallow Systems (Between Crop Application)
- General Farmstead
- Grain Sorghum
- Grass (Hay or Silage)
- Pastures
- Rangeland
- Sugarcane
- Wheat

Look inside for complete **Restrictions and Limitations** and **Application Instructions**.

These crops are considered Food/Feed crops only when harvested, grazed, or foraged. Otherwise, they are considered non-Food/Feed uses.

CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR 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. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions or presence of other materials. All such risks shall be assumed by the Buyer.

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