

7969-133

3/25/2008

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

25 MAR 2008

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Dave G Bolin
BASF Corporation
P.O. Box 13528
Research Triangle Park, NC 27709-3528

Dear Mr. Bolin:

Subject: Revised Labeling
Weedmaster Herbicide
EPA Registration No. 7969-133
Your Submission Dated March 13, 2008

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Modify the first sentence in the Environmental Hazard Statement to read "This product is toxic to fish and aquatic invertebrates". Delete the duplicate statement in the next paragraph.
 - b. Delete "Do not discharge effluent....Regional Office of the EPA". These statements are only applicable to manufacturing use products.
2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

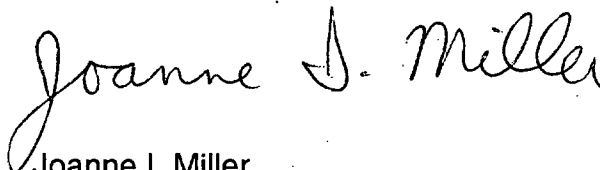
A stamped copy of the labeling is enclosed for your records.

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If you have any questions concerning this letter please contact Mr. James Stone at 703-305-7391.

Sincerely yours,

A handwritten signature in cursive script that reads "Joanne I. Miller". The signature is written in black ink and is positioned above the typed name.

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505P)

cc: Julia Stokes
Special Review and Reregistration Division (7508P)

3 8 20



The Chemical Company

ACCEPTED
with COMMENTS
in EPA Letter Dated
25 MAR 2008

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

7969-133

Weedmaster[®]

herbicide

For use on Conservation Reserve Program Land, Fallow Systems (Between Crop Applications), General Farmstead, Grass (Hay or Silage), Pastures, Rangeland, Sorghum, Sugarcane, and Wheat

Active Ingredients:

Dimethylamine salt of dicamba (3,6-dichloro-o-anisic acid)*	12.4%
Dimethylamine salt of 2,4-dichlorophenoxyacetic acid**	35.7%
Other Ingredients:	<u>51.9%</u>
Total:	100.0%

*This product contains 10.3% dicamba or 1 pound per gallon (120 grams per liter) and 29.6% 2,4-D or 2.87 pounds per gallon (344 grams per liter).

**Isomer specific by AOAC method 978.05, 15th Edition.

EPA Reg. No. 7969-133

EPA Est. No.

**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).

See inside for complete **First Aid, Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.**

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).</p>	

Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER. Corrosive. Causes irreversible eye damage. **DO NOT** get in eyes or on clothing. Wear goggles. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are butyl rubber, nitrile rubber, and neoprene rubber. If you want more options, follow the instructions for **Category A** on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators, flaggers, and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks
- protective eyewear
- chemical-resistant gloves when applying postharvest dips or sprays to citrus, applying with any handheld nozzle equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate
- chemical-resistant apron when applying postharvest dips or sprays to citrus, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate

See **Engineering Controls Statement** for additional requirements.

Mixers and loaders who DO NOT use a mechanical system (probe and pump) must wear:

- coveralls
- chemical-resistant apron

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's

concentrate. **DO NOT** reuse them. Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

Engineering Controls Statement

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)]. When handlers use closed systems, 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.

- **For containers of 5 gallons or more: DO NOT** open pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

- **For containers greater than 1 gallon but less than 5 gallons:** When handlers use a mechanical system (probe and pump), 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.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- 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 product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. For terrestrial uses, **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

This chemical is toxic to fish and aquatic invertebrates. **DO NOT** discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. **DO NOT** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an 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.

DO NOT allow people or pets to enter the treated area until sprays have dried.

Unless otherwise directed in supplemental 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.

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
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Storage and Disposal

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Storage: DO NOT store below 32° F or above 100° F. Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Avoid cross contamination with other pesticides.

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 mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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.

Triple rinse containers too large to shake (capacity > 5 gallons) 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. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: 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% 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; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. **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 transport. **DO NOT** transport if this container is damaged

or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container 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
BASF Corporation 1-800-832-HELP (4357)

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 reuse. Keep the spill out of all sewers and open bodies of water.

General Information

Weedmaster® herbicide is a selective postemergence herbicide for controlling a wide spectrum of annual, biennial, and perennial broadleaf weeds and brush in grass forages and selected row crops.

Mode of Action

Weedmaster contains two active ingredients: dicamba and 2,4-D. **Weedmaster** is readily absorbed by plants through shoot and root uptake, translocates throughout the plant's system, and accumulates in areas of active growth. **Weedmaster** interferes with the plant's growth hormones (auxins) resulting in death of many broadleaf weeds.

Cleaning Spray Equipment

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions, and then triple rinsing the equipment before and after applying this product.

Application Instructions

Apply **Weedmaster** at the rates and growth stages listed in **Table 1** and **Table 2** as follows unless instructed differently by **Food/Feed Crop-specific Information** or **Nonfood/Feed Use Specific Information**. Applications can be made to actively growing weeds as aerial, broadcast, band, or spot spray applications. **Weedmaster** may be applied using water or sprayable fluid fertilizer as a carrier. Sprayable fluid fertilizer may be used as the carrier in preplant or preemergence uses for all crops listed on this label. Postemergence uses with sprayable fluid fertilizer may be made on pasture, hayland, or wheat crops only.

The most effective application rate and timing varies based on the target weed species (refer to **Table 1** and **Table 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 stated and will prevent adequate control.

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

Irrigation

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

Spray Coverage

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

Sensitive Crop Precautions

Weedmaster® herbicide 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. These plants are most sensitive to **Weedmaster** 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 **Weedmaster** with the roots of desirable plants such as trees and shrubs.

Avoid making applications when spray particles may be carried by air currents to areas where sensitive crops and plants are growing. **DO NOT** spray near sensitive plants if wind is gusty or in excess of 5 mph and moving in the direction of nearby sensitive crops, or if a temperature inversion exists. However, always make applications when there is some air movement to determine the direction and distance of possible spray drift. Leave an adequate buffer zone between area to be treated and sensitive plants. Coarse sprays are less likely to drift out of the target area than fine sprays. Agriculturally-approved drift-reducing additives may be used.

DO NOT use aerial equipment or apply **Weedmaster** when sensitive crops and plants are growing in the vicinity of area to be treated.

Recommendations to Avoid Herbicide Drift

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

Use coarse sprays (volume median diameter of 400 microns or more) to avoid potential herbicide drift. Select nozzles that are designed to produce minimal amounts of fine spray particles (less than 200 microns). Examples of nozzles designed to produce coarse sprays via ground applications are **Delavan® Raindrops, Spraying Systems XR** (excluding 110 tips) flat fans, **Turbo TeeJet®, Turbo FloodJet®**, or large capacity flood nozzles such as D10, TK10, or greater capacity tips.

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 downwind.

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.

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

Aerial Application Methods and Equipment

Water Volume: Use 3 to 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 safe height to reduce the exposure of spray droplets to evaporation and wind.

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.

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.

DO NOT use aerial equipment if spray particles can be carried by the wind into areas where sensitive crops or plants are growing or when temperature inversions exist.

Table 1. Application Rate and Timing

Annual Weeds

Weeds Controlled (including ALS- and triazine-resistant)	Weedmaster® herbicide Rate Per Acre (according to weed growth stage)					
	0.5 pint	1 pint	1.5 pints	2 pints	3 pints	4 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, corn	—	pre-flower	—	early bloom	late bloom	—
Chickweed, common	—	seedling	1-3"	—	—	—
Cockle, cow	—	< 3"	—	—	—	—
Cocklebur, common	—	1-6"	6-12"	12-18"	—	—
Coreopsis, plains	—	1-6"	—	—	—	—
Croton, woolly	1-4"	4-12"	12-30"	—	—	—
Devil's claw	—	—	—	< 8"	—	—
Dogfennel	—	—	—	10-15"	—	—
Eveningprimrose, cutleaf	—	< 2"	—	2-6"	—	—
Falseflax, smallseed	—	< 2"	—	—	—	—
Fleabane, annual	—	1-4"	4-8"	8"	—	—
Flixweed	—	< 3"	—	—	—	—
Henbit	—	—	pre-flower	—	flower	—
Knotweed spp.	—	< 3" runners	—	> 3" runners	—	—
Kochia	—	1-6"	6-10"	10-20"	—	—
Lambsquarters, common	—	1-6"	6-10"	10-20"	—	—
Mallow, common	—	< 3"	—	—	—	—
Morningglory, ivyleaf	—	pre-flower	—	—	—	—
Morningglory, tall	—	pre-flower	—	post flower	—	—
Mustard, annual	—	rosette	—	early bolt	—	—
Mustard, tansy	—	< 3"	—	early bolt	—	—
Nightshade, black	—	—	—	full flower	—	actively growing
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
Purslane, common	—	< 3"	3-8"	—	—	—

Table 1. Application Rate and Timing

Annual Weeds (continued)

Weeds Controlled (including ALS- and triazine-resistant)	Weedmaster® herbicide Rate Per Acre (according to weed growth stage)					
	0.5 pint	1 pint	1.5 pints	2 pints	3 pints	4 pints
Ragweed, common	1-3"	3-6"	6-10"	> 10"	—	—
Ragweed, giant	1-3"	3-6"	6-10"	actively growing	—	—
Ragweed, lanceleaf	1-3"	3-6"	6-10"	> 10"	—	—
Ragweed, Western	1-3"	3-6"	6-10"	> 10"	—	—
Sedge ¹	—	—	—	< 4 leaves	—	—
Shepherdspurse	—	rosette	—	—	—	—
Smartweed, Pennsylvania	—	< 4"	—	—	4-12"	—
Sneezeweed, bitter	—	1-4"	prior to flower	flower	—	—
Sowthistle, annual	—	rosette	—	bolting	—	—
Sunflower	—	1-3"	3-6"	6-24"	—	—
Thistle, Russian	—	—	—	< 3"	—	—
Velvetleaf	—	< 6"	6-20"	> 20"	—	—

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

Table 2. Application Rate and Timing

Biennial and Perennial Weeds

Weeds Controlled	Weedmaster® herbicide Rate Per Acre (according to weed growth stage)					
	0.5 pint	1 pint	1.5 pints	2 pints	3 pints	4 pints
Bindweed, field	—	—	—	—	—	actively growing
Bittercress ⁵	—	2-3"	—	—	—	—
Buckeye ¹	—	—	—	—	full leaf	—
Bullnettle ^{2,5}	—	—	—	flowering	—	—
Chicory	—	—	—	rosette	early bolting	—
Clover, spp.	—	—	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	—
Goldenweed, common	—	—	—	—	—	actively growing
Groundsel	—	rosette	post-bolting	—	—	—
Honeysuckle	—	—	—	—	spring or fall	—
Horsenettle ¹	—	—	—	—	—	flower or berry
Ivy, poison	—	—	—	after bloom	—	—
Knapweed, black ²	—	—	—	—	—	actively growing
Knapweed, Russian ²	—	—	—	—	—	actively growing
Knapweed, spotted	—	—	—	—	—	actively growing
Lettuce, prickly	—	—	—	rosette	—	actively growing
Marshelder ⁵	—	—	—	< 12"	12"/pre-bloom	—
Mesquite ³	—	—	—	—	—	45-90 days after bud-break
Milkweed ^{1,5}	—	—	—	pre-flower	—	flower
Nightshade, silverleaf ¹	—	—	—	—	—	full flower
Persimmon, Eastern ³	—	—	—	—	—	actively growing
Rabbitbrush ²	—	—	—	—	—	actively growing
Ragwort, tansy	—	—	—	rosette	—	actively growing
Redvine ²	—	—	—	—	—	actively growing
Sagebrush, fringed ²	—	—	—	—	—	actively growing
Smartweed, swamp	—	—	—	—	—	actively growing
Sorrel, red	—	—	rosette	bolting	flower	—
Sowthistle, perennial ²	—	—	—	—	—	actively growing
Spurge, leafy ²	—	—	—	—	—	full leaf
Starthistle, yellow ¹	—	—	—	—	—	rosette

Table 2. Application Rate and Timing

Biennial and Perennial Weeds (continued)

Weeds Controlled	Weedmaster® herbicide Rate Per Acre (according to weed growth stage)					
	0.5 pint	1 pint	1.5 pints	2 pints	3 pints	4 pints
Tallow Tree, Chinese ^{4,5}	—	—	—	—	—	actively growing
Thistle, bull	—	—	rosette	bolting	—	—
Thistle, Canada ²	—	—	—	—	—	actively growing
Thistle, musk	—	—	—	rosette/bolting	—	—
Thistle, plumeless	—	—	rosette	bolting	—	—
Vetch, hairy	—	1-4"	4-8"	8" full flower	—	—
Yankee weed	—	—	—	10-18"	—	—

¹ May require repeat applications.

² Recommended rate will provide top growth suppression only.

³ For improved root kill of woody species such as mesquite, spray 4 pints **Weedmaster** per acre each year for 3 consecutive years. For increased control of weeds such as blackberry and dewberry, **Weedmaster** may be tank mixed with **Ally® herbicide** (0.1 to 0.2 ounce per acre), if labeled for the use site.

⁴ Under dense populations, a second application may be needed the following growing season.

⁵ **Not for use in California.**

Ground Application (Banding)

When applying **Weedmaster** by banding, determine the amount of herbicide and water volume needed using the following formula:

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \text{Broadcast rate per acre} = \text{Banding herbicide rate per acre}$$

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \text{Broadcast volume per acre} = \text{Banding water volume per acre}$$

Ground Application (Broadcast)

Water Volume: Use 5 to 40 gallons of spray solution per broadcast acre for optimal performance. Use the higher spray volume when treating dense or tall vegetation.

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.

Spot or Small Area Application

Weedmaster 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 **Weedmaster** in water according to **Table 3** (assuming that the spot treatment rate equates to 60 gallons per acre on the broadcast basis). Adding a surfactant (0.5% by volume) can help improve control.

For example, 5 gallons (40 pints or 640 fluid ounces) of herbicide solution would require 0.2 pints (3.2 fluid ounces) of surfactant.

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 Weedmaster® herbicide to add to the spray tank
1 gallon	1 fluid ounce*
3 gallons	3 fluid ounces
5 gallons	5 fluid ounces

*1 fluid ounce = 2 tablespoons

Additives

To improve burndown of emerged weeds, surfactants and/or low use rate of liquid fertilizers (28-0-0, 32-0-0) or crop oil concentrate (COC) may be used with **Weedmaster** or **Weedmaster** 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 (AMS) or crop oil concentrate to any food/feed crop use listed on this label. For food/feed crop uses, **DO NOT** use liquid fertilizers that contain AMS as a source of nitrogen because tolerances in commodities derived from the crop may contain residues that exceed established tolerances. Consult your local BASF representative for recommendations for your area. For additional information, see **Compatibility Test for Mix Components**.

Oil Concentrate

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

- Nonphytotoxic
- Contain only EPA-exempt ingredients
- Provide good mixing quality in the jar test
- Successful in local experience

The exact composition of suitable products will vary; however, vegetable 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**.

Adjuvants containing crop oil concentrates may be used for preplant, preemergence and between cropping applications. **DO NOT** use crop oil concentrate for postemergence applications in **food/feed crops (i.e., sorghum, grass (hay or silage), pastures, rangeland, sugarcane and wheat)**.

Nitrogen Source

Sprayable liquid fertilizers: Use one quart of sprayable liquid fertilizers (28-0-0, 32-0-0) per acre. **DO NOT** use brass or aluminum nozzles when spraying fertilizers.

Nonionic Surfactant

The standard label recommendation is 2 to 4 pints of an 80% active nonionic spray surfactant per 100 gallons of water. For certain weeds, use a higher spray surfactant rate.

Table 4. Additive Rate Per Acre

Additive	Rate Per Acre
Nonionic surfactant	2 to 4 pints per 100 gallons
Sprayable liquid fertilizers (28-0-0, 32-0-0)	2 to 4 quarts
Crop oil concentrate	1 quart*

*See manufacturer's label for specific rate recommendations.

General Tank Mixing Information

Tank Mix Partners/Components

The following products may be tank mixed with **Weedmaster** according to the specific tank mixing instructions in this label and respective product labels:

- **Aim®** (carfentrazone-ethyl)
- **Ally®** (metsulfuron-methyl)
- **Amber®** (triasulfuron)

The following products may be tank mixed with **Weedmaster** herbicide according to the specific tank mixing instructions in this label and respective product labels:

- **Basagran®** (bentazon)
- **Bronate®** (bromoxynil + MCPA)
- **Buctril®** (bromoxynil)
- **Clarity®** (dicamba)
- **Curtail®** (clopyralid + 2,4-D)
- **Distinct®** (diflufenzopyr + dicamba)
- **Evik®** (ametryn)
- **Express®** (thifensulfuron + tribenuron-methyl)
- **Finesse®** (chlorsulfuron + metsulfuron-methyl)
- **Glean®** (chlorsulfuron)
- glyphosate (e.g. **Roundup®**)
- **Gramoxone® Extra** (paraquat)
- **Harmony® Extra** (thifensulfuron + tribenuron-methyl)
- **Karmex®** (diuron)
- **Kerb®** (pronamide)
- **Laddok® S-12** (bentazon + atrazine)
- **Landmaster®** (glyphosate + 2,4-D)
- MCPA
- **Overdrive®** (diflufenzopyr + dicamba)
- **Paramount®** (quinclorac)
- **Peak®** (prosulfuron)
- **Permit®** (halosulfuron-methyl)
- **Rave®** (dicamba + triasulfuron)
- **Sencor®** (metribuzin)
- **Sinbar®** (terbacil)
- **Stinger®** (clopyralid)
- **Tordon®** (picloram)
- 2,4-D

See **Crop-specific Information** for more details. 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, reduced weed control, or crop injury may result from mixing **Weedmaster® herbicide** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF-recommended tank mixes.

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 **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended 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 then compatible, use the compatibility agent as directed on its label. 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 1/2 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 PVA 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, or suspensions).
- 5) **Water-soluble products**. (such as **Weedmaster**).
- 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, **Weedmaster** must be diluted with a minimum of 5 parts water to 1 part **Weedmaster**. Then add 0.25% to 0.5% volume/volume of a nonionic surfactant to the dilution before adding it to the sprayable fluid fertilizer to reduce the concern for compatibility problems with this mix. Always perform the **Compatibility Test for Mix Components** 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.

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**
- **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. If dry weather prevails, use cultivation to allow herbicide contact with moist soil.

Planting/replanting restrictions for Weedmaster applications of 6 pints per acre or less: No rotational cropping restrictions apply at 120 days or more following application. Additionally, for annual crop uses in this label including sorghum, follow the preplant use directions in **Food/Feed Crop-specific Information**. For barley, oat, wheat, and other grass seedings, the interval between application and planting is 10 days per pint per acre.

Planting/replanting restrictions for applications of more than 6 pints and up to 8 pints of Weedmaster per acre: Sorghum, cotton (east of the Rocky Mountains) and all other crops grown in areas with 30" or more of annual rainfall may be planted 120 days or more after application. Barley, oat, wheat, and other grass seedings may be planted if the interval from application to planting is 10 days per pint per acre east of the Mississippi River and 15 days per pint per acre west of the Mississippi River. For all other crops in areas with less than 30" of annual rainfall, the interval between application and planting is 180 days or more.

Rainfast period: Rainfall or irrigation occurring within 4 hours after postemergence applications may reduce the effectiveness of **Weedmaster**.

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, because 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 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** any other pesticide product.

Table 5. Crop-specific Restrictions and Limitations

Crop	Maximum Rate Per Acre Per Application	Maximum Rate Per Acre Per Season	Livestock Grazing or Feeding ¹	Aircraft Application
Between Crop Applications	6 pints	8 pints	Yes	Yes
Pasture, Hay, Silage	4 pints	8 pints	Yes	Yes
Sorghum	1 pint	1 pint	Yes	Yes
Sugarcane	5.5 pints	11 pints	Yes	Yes
Wheat	1.4 pints	3.33 pints	Yes	Yes

¹Refer to **Food/Feed Crop-specific Information** for grazing and feeding restrictions.

Food/Feed Crop-specific Information

Pastures, Rangeland and Grass (Hay, Silage)

Weedmaster® herbicide is recommended for use for pasture (including pasture grown for hay), rangeland and grass grown for hay or silage.

If grass is to be cut for hay. **Agricultural Use Requirements** for the Worker Protection Standard are applicable.

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

Rates above 4 pints of **Weedmaster** per acre are for spot treatments only.

Limited to 2 applications per year, **DO NOT** exceed a total of 8 pints, 2.0 lbs ae 2,4-D, of **Weedmaster** per treated acre during a growing season. Minimum of 30 days is required between applications.

Uses described in this section also pertain to small grains (such as barley, 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 **Weedmaster** greater than 2 pints per acre are applied.

In newly established hybrid Bermudagrass, Pangolagrass, and stargrasses (*Cynodon* spp.), use 2 to 4 pints of **Weedmaster** per acre to control or suppress weeds after planting vegetative propagules (stolons) of hybrid Bermudagrasses. In addition to the weeds listed in **Table 1** and **Table 2**, this rate of **Weedmaster** will control or suppress annual sedges, broadleaf signalgrass, crabgrass, and goosegrass.

Best results will be obtained if **Weedmaster** is applied at the germinating stage of weeds. Under favorable conditions, this is usually 7 to 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. Augustinegrass), 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 and brush may require repeat applications.

For pasture renovations, wait 3 weeks per quart (2 pints) of **Weedmaster** used per acre before interseeding or injury may occur.

If grasses are grown for seed or for seed-down purposes, **DO NOT** apply after grass reaches the joint stage.

For program lands, such as Conservation Reserve Program, consult program rules to determine whether grass or hay may be used. The more restrictive requirements of the program rules or this label must be followed.

Grazing and Feeding Nonlactating Animals

There is no waiting period between treatment and grazing for nonlactating 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 37 days of treatment.

Pasture and Rangeland Tank Mixes

Weedmaster® herbicide may be applied in tank mixes with one or more of the following herbicides:

- Ally®
- Amber®
- Clarity®
- Rave®

Sorghum

Rates and Timings

Apply 1 pint of **Weedmaster** per acre to sorghum in the 3-leaf to 5-leaf stage (4" to 8" tall). For best performance, apply **Weedmaster** when weeds are small (less than 3" tall).

Applications of **Weedmaster** to sorghum during periods of rapid growth may result in temporary leaning of plants or rolling of leaves. These effects are usually outgrown within 10 to 14 days. Sorghum growing under conditions of stress, such as high moisture, low fertility, and abnormal temperature, may be more sensitive to applications of **Weedmaster**.

DO NOT use surfactants or oils with postemergence applications of **Weedmaster** on sorghum crops.

DO NOT use **Weedmaster** if the potential for sorghum injury is not acceptable.

The preharvest interval (PHI) is **30 days**.

DO NOT permit meat or dairy animals to consume treated crop as fodder or forage for 30 days following application.

If sorghum is grown for pasture, hay, or silage, refer to **Pasture and Rangeland and Grass (Hay, Silage) in Crop-specific Information** for livestock grazing and feeding restrictions.

DO NOT apply **Weedmaster** to sorghum grown for seed production.

Make no more than one postemergence application per growing season.

Sorghum Tank Mixes

Weedmaster may be applied in tank mixes with one the following herbicides:

- atrazine
- Buctril®
- Paramount®
- Permit®
- Basagran®
- Laddok® S-12
- Peak®

Sugarcane

Applications of **Weedmaster** 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. **DO NOT** harvest cane prior to crop maturity.

Rate

- For control of listed annual broadleaf weeds, apply 2 pints of **Weedmaster** per treated acre.
- For suppression of listed perennial weeds, apply 1 to 5.5 pints of **Weedmaster** per treated acre.

Limited to one preemergence and one postemergence application, **DO NOT** exceed 11 pints of **Weedmaster** per treated acre during a growing season.

Sugarcane Tank Mixes

Weedmaster may be applied in tank mixes with one or more of the following herbicides:

- Asulox®
- atrazine
- Evik®
- Sencor®
- Sinbar®

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 **Weedmaster** in wheat underseeded with legumes.

Early Season Applications

Apply 0.5 to 1 pints of **Weedmaster® herbicide** 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 1.33 pints of **Weedmaster** 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

Weedmaster can be used to control weeds that may interfere with harvest of wheat. Apply up to 1.4 pints of **Weedmaster** 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, **Weedmaster** may be tank mixed with other herbicides such as **Ally®** or glyphosate (e.g. **Roundup®**) that are registered for preharvest use in wheat.

Preharvest use of Weedmaster is not registered for use in California.

Wheat Tank Mixes

Table 6.

Tank Mix Partner	Rate Per Acre
Aim®	0.3 ounce
Ally®	0.05 to 0.1 ounce ¹
Amber®	0.14 to 0.28 ounce ¹
Bronate®	0.75 to 1.5 pints
Buctril®	1 to 1.5 pints
Curtail®	2 to 2.67 pints
Express®	0.083 to 0.167 ounce ¹
Finesse®	0.167 to 0.33 ounce ¹
Glean®	0.167 ounce ¹
Harmony® Extra	0.167 to 0.33 ounce ¹
Karmex®²	0.5 to 1.5 pounds
2,4-D amine	4 to 20 fluid ounces ³
Sencor®²	0.25 to 0.375 pound ai
Peak®¹	0.25 to 0.38 ounce
Stinger®	4 to 5.33 fluid ounces

¹**DO NOT** use low rates of sulfonylurea herbicides, such as **Ally®**, **Amber®**, **Canvas®**, **Express®**, **Finesse®**, **Glean®**, **Harmony® Extra**, and **Peak®** on more mature weeds or on dense vegetative growth.
²Tank mixes with **Karmex®** and **Sencor®** are for use in fall-seeded only.
³**Weedmaster** contains 0.36 pound a.e. of 2,4-D per pint. When tank mixing with 2,4-D, **DO NOT** exceed 0.5 pound a.e. of 2,4-D.

Between Crop Applications, Conservation Reserve Programs, General Farmstead and Fallow Systems

These uses are considered food/feed crops when harvested, grazed or foraged. Consult **Additives** for adjuvant restrictions and **Nonfood/Feed Use (Land not Harvested, Grazed or Foraged) Specific Information** for specific use directions.

Nonfood/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
Weedmaster can be applied either postharvest in the fall, spring, or summer during the fallow period or to crop stubble/set-aside acres. Apply **Weedmaster** as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (postharvest) and before a killing frost, or in the fallow cropland or crop stubble the following spring or summer.

See **Crop Rotational Restrictions in Restrictions and Limitations** for the recommended interval between application and planting to prevent crop injury.

Rates and Timings

Apply 0.5 to 6 pints of **Weedmaster**® herbicide per acre. Refer to **Table 1** to determine use rates for specific targeted weed species. Limited to 2 applications per year, **DO NOT** exceed a total of 8 pints of **Weedmaster** per treated acre during a growing season. A minimum of 30 days is required between applications. For best performance, apply **Weedmaster** 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 **Weedmaster** is applied when the majority of weeds have at least 4" to 6" of regrowth or for weeds such as field bindweed and hedge bindweed that are in or beyond the full-bloom stage.

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 **Weedmaster**. For seedling control, a follow-up program or other cultural practices could be instituted.

Between-crop Tank Mixes

In tank mixes with one or more of the following herbicides, apply 0.5 to 2 pints of **Weedmaster** per acre for control of annual weeds, or 2 to 8 pints of **Weedmaster** per acre for control of biennial and perennial weeds.

- **Aim**®
- **Ally**®
- **Amber**®
- atrazine
- **Curtail**®
- **Distinct**®
- **Finesse**®
- glyphosate
- **Gramoxone**® Extra
- **Kerb**®
- **Landmaster**® BW
- **Paramount**®
- **Sencor**®
- **Tordon**® 22K
- **Touchdown**®
- 2,4-D

Conservation Reserve Programs and General Farmstead

Weedmaster is recommended for use for Conservation Reserve Programs, general farmstead (noncropland only), weed and brush control, or use in State Recognized Noxious Weed areas (noncropland areas).

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

Rates above 4 pints of **Weedmaster** per acre are for spot treatments only.

Limited to 2 applications per year, **DO NOT** exceed a total of 5.5 pints of **Weedmaster** per treated acre during a growing season.

A minimum of 30 days between applications is required.

Farmstead and Fencerow Treatment Application Instructions

Weedmaster 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 **Table 1** and **Table 2**, these treatments may be used to control or suppress woody plant species listed in **Table 7**.

To prepare oil 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. Forty gallons of spray solution contains 1.0 pound acid equivalent of dicamba and 2.87 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 fencerows surrounding pasture and ranch lands and fallow fields, use a tank mix of 2.5% of **Weedmaster**, 87.5% 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.
3. **Weedmaster.** Add 2.5 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 an oil layer forms, increase the amount of emulsifier or change to a more effective emulsifier.

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.

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.

Cut-surface Treatments

Apply **Weedmaster® herbicide** 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 **Weedmaster**.

Stump Treatments: Spray or paint freshly cut surface with **Weedmaster**. 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	Kudzu
Ash	Locust, Black
Aspen	Maple
Basswood	Mesquite
Beech	Oak
Blackberry	Oak, Poison
Blackgum	Olive, Russian
Cedar	Persimmon, Eastern
Cherry	Pine
Chinquapin	Plum, Sand (Wild Plum)
Cottonwood	Poplar
Creosotebush	Rabbitbrush
Dewberry	Redcedar, Eastern
Dogwood	Rose, McCartney
Elm	Rose, Multiflora
Grape	Sagebrush, Fringe
Greenbriar	Sassafras
Hawthorn (Thornapple)	Spruce
Hemlock	Sumac
Hickory	Sweetgum
Honeylocust	Sycamore
Honeysuckle	Tarbush
Hornbeam	Willow
Huckleberry	Witchhazel
Huisache	Yaupon
Ivy, Poison	Yucca

Weeds Listed in this Label	
Common Name	Scientific Name
ANNUALS	
Beebalm, spotted	<i>Monarda punctata</i>
Broomweed	<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, cow	<i>Agrostemma githago</i>
Cocklebur, common	<i>Xanthium strumarium</i>
Coreopsis, plains	<i>Coreopsis tinctoria</i>
Croton, woolly	<i>Croton capitatus</i>
Devil's claw	<i>Proboscidea louisianica</i>
Dogfennel	<i>Eupatorium capillifolium</i>
Eveningprimrose, cutleaf	<i>Oenothera lacinata</i>
Falseflax, smallseed	<i>Linum catharticum</i>
Fleabane, annual	<i>Erigeron annuus</i>
Flixweed	<i>Descurainia sophia</i>
Henbit	<i>Lamium amplexicaule</i>
Knotweed spp.	<i>Polygonum aviculare</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, common	<i>Chenopodium album</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>
Nightshade, black	<i>Solanum nigrum</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>
Pigweed, tumble	<i>Amaranthus albus</i>
Poorjoe	<i>Diodia teres</i>
Purslane, common	<i>Portulaca oleracea</i>
Ragweed, common	<i>Ambrosia artemisiifolia</i>
Ragweed, giant	<i>Ambrosia trifida</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>
Sowthistle, annual	<i>Sonchus oleraceus</i>
Sunflower	<i>Helianthus annuus</i>
Thistle, Russian	<i>Salsola iberica</i>
Velvetleaf	<i>Abutilon theophrasti</i>

Weeds Listed in this Label (continued)

Common Name	Scientific Name
BIENNIALS AND PERENNIALS	
Bindweed, field	<i>Convolvulus arvensis</i>
Bittercress	<i>Cardamine</i> spp.
Buckeye	<i>Aesculus</i> spp.
Bullnettle	<i>Cnidoscopus stimulosus</i>
Chicory	<i>Cichorium intybus</i>
Clover spp.	<i>Trifolium aureum</i>
Dandelion, common	<i>Taraxacum officinale</i>
Dewberry, Southern	<i>Rubus trivialis</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	<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>
Lettuce, prickly	<i>Lactuca scariola</i>
Marshelder	<i>Iva annua</i>
Mesquite	<i>Prosopis juliflora</i>
Milkweed	<i>Asclepias</i>
Nightshade, silverleaf	<i>Solanum elaeagnifolium</i>
Persimmon, Eastern	<i>Diospyros virginiana</i>
Rabbitbrush	<i>Chrysanthemus 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>
Tallow Tree, Chinese	<i>Sapium sebiferum</i>
Thistle, bull	<i>Cirsium vulgare</i>
Thistle, Canada	<i>Cirsium arvense</i>
Thistle, musk	<i>Carduus nutans</i>
Thistle, plumeless	<i>Carduus acanthoides</i>
Vetch	<i>Vicia</i> spp.
Yankeeeweed	<i>Eupatorium compositifolium</i>

Food/Feed Crop Uses

This product can be used on the following:

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

See 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 as non-Food/Feed uses.

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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 must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

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