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

OCT 1 0 2008

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Kimberly S. Gilbert DOW AgroSciences 9330 Zionsville Road Indianapolis, IN 46268

Dear Ms. Gilbert:

Subject:

Rawhide

Label Amendment

EPA Registration No. 62719-448 Submission Dated: July 15, 2008

The labeling referred to above, submitted in accordance with registration under the Federal Insecticide, Fungicide, and Rodenticide act, as amended is acceptable provided the following revisions is made:

1. Under the heading Warranty Disclaimer, revise to read as follows:

To the extent consistent with applicable law, DOW AgroSciences makes no other express ... or implied warranty.

2. Submit 1 (one) copy of your final printed labeling before you release the product for shipment. A stamped copy of the label is enclosed for your records.

Sincerely, Vanne J. Miller

Joanne I. Miller

Product Manager (23)

Herbicide Branch

Registration Division (7505P)

{Editor's note: The "A" portion contains non-crop and industrial uses.]

(Base label for rigid containers 5 gal or less): (Base label for refillable rigid containers larger than 5 gal): (Base label for nonrefillable rigid containers larger than 5 gal):

Rawhide[®]

Herbicide

A herbicide for preemergence and systemic postemergence control or suppression of broadleaf weeds and grasses in ornamental nurseries and noncrop and industrial sites

IMPORTANT: This product is phytotoxic to plant foliage. Apply as a coarse spray to the soil surface and target weeds. Do not allow spray or spray mist to contact foliage, green stems and exposed non-woody roots of desirable plants, as severe plant injury or destruction may result.

Active	Ingredients:
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Contains 2 lb of oxyfluorfen and 2 lb of glyphosate isopropylamine salt per gallon

ACCEPTED with COMMENTS In EPA Letter Dated:

OCT 10 2008

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

62119-448

Keep Out of Reach of Children CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful If Inhaled

Avoid breathing spray mist.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category **C** on an EPA chemical resistance category selection chart.

Mixers, loaders and applicators using engineering controls (see Engineering Controls requirements below) must wear:

- Long-sleeved shirt and long pants
- Shoes plous socks
- Chemical-resistant gloves made from any waterproof material such as butyl rubber, nitrile rubber or polyvinyl chloride when mixing and loading
- Chemical-resistant apron when mixing and loading

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

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant footwear plus socks
- · Chemical-resistant gloves
- Chemical-resistant headgreat when exposed overhead
- Chemical-resistant apron when exposed to the concentrate

Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standards (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/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.

First Aid

If inhaled: 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: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

Environmental Hazards

This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water, or areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. See Directions for Use for additional restrictions. Do not contaminate water when cleaning equipment or disposing equipment washwaters.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

Do not mix, store or apply this product or spray solutions of this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR

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part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Storage and Disposal

Do not contaminated water, food or feed by storage or disposal

Pesticide Storage: Keep from Freezing. Store above 32°F.

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

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank to 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.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

Shake Well Before Using

In case of emergency endangering health or the environment	
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Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

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Produced for Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

EPA Reg. No. 62719-448

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EPA Est.

(cover):

Rawhide[®]

Herbicide

A herbicide for preemergence and systemic postemergence control or suppression of broadleaf weeds and grasses in ornamental nurseries and noncrop and industrial sites

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Active Ingredients:

Contains 2 lb of oxyfluorfen and 2 lb of glyphosate isopropylamine salt per gallon

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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Shake Well Before Using

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

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EPA Reg. No. 62719-448

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9330 Zionsville Road Indianapolis, IN 46268

Net Contents____

(Page 1 through end):

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if Inhaled

Avoid breathing spray mist.

Personal Protective Equipment (PPE)

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Mixers, loaders and applicators using engineering controls (see Engineering Controls requirements below) must wear:

- Long-sleeved shirt and long pants
- Shoes plous socks
- Chemical-resistant gloves made from any waterproof material such as butyl rubber, nitrile rubber or polyvinyl chloride when mixing and loading
- · Chemical-resistant apron when mixing and loading

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

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant footwear plus socks
- · Chemical-resistant gloves
- Chemical-resistant headgreat when exposed overhead
- Chemical-resistant apron when exposed to the concentrate

Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standards (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/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.

First Aid

If inhaled: 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: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

Environmental Hazards

This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water, or areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. See Directions for Use for additional restrictions. Do not contaminate water when cleaning equipment or disposing equipment washwaters.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

Do not mix, store or apply this product or spray solutions of this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Application Restrictions

All ornamentals: liquid application rate of 3 pt (1.5 lbs/ai oxufluorfen)/application and 1 gal (4.5 lbs/ai oxyfluorfen)/season.

Shake Well Before Using

General Application Restrictions

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.

Spray Drift Buffer Restrictions

A 25 foot vegetative buffer strip must be maintained between all areas treated with this product and lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

Do not allow spray to drift from the application site and contact people, structures people may occupy at any time and the associated property, parks and reaction areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy when wind speed is 10 mph or less at the application site as measured by an anemometer.

Use coarse spray according to ASAE 572 definition for standard nozzles or VMD of 475 microns for spinning atomizer nozzles.

The applicator also must use all other measures necessary to control drift.

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 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 enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 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 from any waterproof material
- Shoes plus socks

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.

Do not enter or allow others to enter until sprays have dried.

Storage and Disposal

Do not contaminated water, food or feed by storage or disposal **Pesticide Storage**: Keep from Freezing. Store above 32°F.

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

Nonrefillable containers 5 gallons or less:

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. 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 containers larger than 5 gallons:

Container Reuse: 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 a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical,

agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Nonrefillable containers larger than 5 gallons:

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank to 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.

ORNAMENTAL NURSERIES, LANDSCAPES, CHRISTMAS TREES, GENERAL NON-CROP AREAS AND INDUSTRIAL SITES

Rawhide herbicide provides postemergence and residual preemergence control of susceptible annual grass and broadleaf weeds in ornamental and plant nurseries and Christmas tree plantings, fence rows, landscape beds, industrial sites, lumber yards, manufacturing sites, ornamental nurseries, parking areas, railroads, roadsides, other areas and similar industrial and non-crop areas. Apply Rawhide as a post-directed spray around established woody and ornamental species or use to trim and edge around trees, buildings, sidewalks, roads, potted plants and other objects. This product may be used to remove unwanted vegetation and eliminate unwanted weeds in established shrub or ornamental beds, around objects and in cracks in sidewalks, driveways, roads, patios and athletic courts. Rawhide may be used in landscaped areas over the root zones without harming ornamental plants.

Cultural Practices for Optimum Weed Control

Preemergence Weed Control: For optimal preemergence activity, beds or soil surfaces to be treated with Rawhide should be smooth and free of crop and weed trash (decaying leaves, clippings, dead weeds, etc.). Leaves and trash may be removed or thoroughly mixed into the soil by prior to application. For best results, the herbicide should be activated by at least one-quarter inch (1/4 inch) of irrigation or rainfall should occur within 3 to 4 weeks after application. Preemergence weed control occurs when germinating weeds come in contact with soil-applied herbicide during emergence. For best results, treated soil surfaces should be left undisturbed during the period of time for which weed control is desired. Disturbance or redistribution of the soil surface will disrupt the herbicidal barrier in the soil surface and reduce effectiveness of Rawhide as a preemergence herbicide.

For optimum control in landscaped areas, apply Rawhide before spreading [putting down] mulch around trees and shrubs.

Postemergence Weed Control: Thorough and uniform spray coverage is essential for optimum postemergence activity. Heavy rainfall immediately after application may wash this product off weed foliage and reduce effectiveness. Avoid application if rainfall is expected within 2 to 4 hours after application. Refer to the Weeds Table for recommendations for specific weeds. The most effective postemergence weed control is achieved when Rawhide is applied to seedling weeds at the recommended growth stage. Higher rates of this product per acre within the recommended range may be necessary for control of certain weed species or when weed growth is dense or in an advanced growth stage.

General Use Precautions and Restrictions

Around established woody ornamentals, apply Rawhide only as a directed spray. Do not allow sprays or spray mist to contact foliage or stems with green bark.

IMPORTANT: This product is phytotoxic to plant foliage. Apply as a coarse spray to the soil surface and target weeds. Do not allow spray contact or mist to contact foliage, green stems and exposed non-woody roots of desirable plants, as severe plant injury or destruction may result. A shield made of plastic or cardboard is recommended to prevent spray contact with foliage or green stems of desirable ornamental plants. Do not apply when weather conditions favor drift.

DO NOT APPLY THIS PRODUCT AS AN OVER-THE-TOP SPRAY ON ORNAMENTALS AND CHRISTMAS TREES. Desirable plants may be protected from spray solution by using spray shields or a hand-held shield made of cardboard or other impermeable material. Occasionally after the use of Rawhide, spotting, crinkling, or flecking may appear on foliage of conifer and deciduous tree species.

Use Restrictions

- Rawhide is phytotoxic to plant foliage and green stems. Do not apply when weather conditions favor drift. Avoid drift to all non-target areas.
- · Do not apply to residential lawns.
- Do not apply Rawhide to exposed roots of desirable plants.
- Do not use plants treated with Rawhide for feed or forage.
- Do not allow animals to graze on areas treated with Rawhide.
- Do not treat ditch banks or waterways with Rawhide. Do not contaminate irrigation water or water used for domestic purposes.
- Do not apply Rawhide in or around an enclosed greenhouse structure as injury to plant foliage may result.
- Aerial Application: Do not aerially apply Rawhide.
- Chemigation: Do not apply this product through any type of irrigation system.

IMPORTANT: Do not attempt seeding of treated areas within 6 months after application. Treated soil must be thoroughly incorporated (mixed) to a depth of 4 inches before attempting to seed or establish transplants in a treated area. Failure to achieve thorough and complete incorporation may result in crop injury, stand reduction and/or reduction in vigor of seedlings or transplants.

Mixing Directions

Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the recommended amount of herbicides to the spray tank. The order of addition to the spray tank should be wettable powders first, flowables second and liquids last. Complete filling of the spray tank with water. For all applications of Rawhide where postemergence weed control is desired, add 2 to 4 pints of an 80% active nonionic surfactant cleared for application to growing crops per each 100 gallons of spray. The addition of 4 pints of nonionic surfactant per 100 gallons of spray is recommended to enhance postemergence activity when hard water (greater than 600 ppm) is used as carrier. Maintain agitation until spraying is completed.

Tank Mixing

Rawhide may be applied in tank mix combination with labeled rates of other products provided (1) the tank mix product is labeled for the timing and method of application for the crop or use site to be treated; (2) tank mixing with Rawhide (oxyfluorfen or glyphosate) is not prohibited by the label of the tank mix product; and (3) the tank mix combination is compatible as determined by a "jar test" described in the following "Tank Mix Compatibility Testing" section.

Tank Mixing Precautions:

- When tank mixing, read and follow all applicable use directions, precautions, and limitations on the
 respective tank mix product labels. In interpreting all labels for the tank mixture, the most restrictive
 limitations must apply.
- Do not exceed recommended application rates. Do not tank mix with another pesticide product that contains the same active ingredient as this product unless the label of either tank mix partner specifies the maximum dosages that may be used.

Tank Mix Compatibility Testing: A jar test is recommended prior to tank mixing to ensure compatibility of this product with other pesticides. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Sprayer Cleanout: Residual Rawhide remaining in spray equipment may damage other crops. Thoroughly flush spray equipment (tank, pump, hoses and boom) with clean water before and after each use. To assist removal of Rawhide residues in spray equipment, a non-ionic surfactant may be added at the rate of 1 quart per 100 gallons of water during flushing.

Application Directions

Use conventional ground spray equipment with flat fan nozzles at the manufacturer's recommended pressure. For directed applications to the soil surface, apply in a spray volume of 15 or more gallons of water per acre. Increase the spray volume to ensure thorough coverage and optimum postemergence control of existing weeds. Check calibration of spray equipment before use.

Directed Applications in Woody Ornamentals: Apply Rawhide as a directed spray to the soil beneath and surrounding woody plants. Spray shields are suggested for use in young trees to prevent spray contact with greens stems or foliage.

Band Application: Dosages listed on this label are for broadcast application. For banded application, the amount of Rawhide used per acre should be reduced according to the following formula:

<u>Band Width (in inches)</u> X Rate per = Amount Needed per Acre Row Width (in inches) = Broadcast Acre for Banded Application

Spot Application

To prevent misapplication, spot treatments should be applied with a calibrated boom or with hand sprayers using a fixed spray volume per 1,000 sq ft as indicated below.

Hand-Held Sprayers: Hand-held sprayers may be used for spot applications. Care should be taken to apply the spray uniformly and at a rate equivalent to a broadcast application. Application rates in the table are based on the application rate for an area of 1,000 sq ft. The amount of Rawhide (fl oz or ml corresponding to the desired broadcast rate) mixed in 0.5 to 2 gallons of water is sufficient to treat 1000 sq ft. To calculate the amount of Rawhide needed to treat larger areas, multiply the table value (fl oz or ml) by the thousands of sq ft to be treated. An area of 1000 sq ft is approximately 10.5 X 10.5 yards in size.

Rate Conversion Table for Spot Treatment:

Label Broadcast Rate (pt/acre)								
1	2	3	4	5	6	8		
	Equivalent Amount of Rawhide per 1000 sq ft							
0.37 fl oz	0.75 fl oz	1 fl oz	1.5 fl oz	1.84 fl oz	2.2 fl oz	2.94 fl oz		
. (11 ml)	(22 ml)	(33 ml)	(44 ml)	(55 ml)	(66 ml)	(88 ml)		

[†] Conversion factors: 1fl oz = 29.6 (30) ml

Application Rates

When determining an appropriate use rate where a rate range is provided, use higher rates where heavy weed pressure is anticipated, or for medium and fine soil textures with high organic matter.

Application Rates for Residual Weed Control:

45-day residual	90-day residual	120-day residual
3 pt/acre	6 pt/acre	8 pt/acre
1.0 fl oz/1000 sq ft	2.5 fl oz/1000 sq ft	2.94 fl oz/1000 sq ft

Ornamental Species

The following ornamental species are tolerant to directed applications of this product. Do not allow spray contact with foliage, green bark or exposed roots.

Deciduous Tree Species	
almond (1)	Prunus spp.
apple (1)	Malus X domestica
apricot (1)	Prunus spp.
ash, green	Fraxinus pennsylvanica
ash, white	Fraxinus americana
birch, river	Betula nigra
cherry (1)	Prunus spp.
chestnut (1)	Castanea spp.
crabapple (1)	Malus spp.
dogwood	Cornus florida
eucalyptus	Eucalyptus viminalis
	Eucalyptus pulverulenta
	Eucalyptus camaldulensis
filbert (1)	Corylus spp.
lilac	Syringa vulgaris
locust, black	Robinia pseudoacacia
maple, black (2)	Acer nigrum
maple, red (2)	Acer rubrum
maple, sugar (2)	Acer saccharum
myrtle, crepe	Lagerstroemia indica
nectarine (1)	Prunus spp.
nut, hickory (1)	Carya sp.
nut, macadamia (1)	Macadamia ternifola
oak, chestnut	Quercus prinus.
oak, pin	Quercus palustris
oak, red	Quercus. rubra
oak , water	Quercus nigra
oak, willow	Quercus phellos
olive, Russian	Elaeagnus angustifolia
poplar	Populus spp.
poplar, tulip	Liriodendron tulipifera
peach (1)	Prunus persica
pear (1)	Pyrus spp.
pecan (1)	Carya spp.
pistachio (1)	Pistacia vera
plum (1)	Prunus spp.
prune (1)	Prunus spp.
redbud	Cercis canadensis
sweetgum	Liquidambar styraciflua
sycamore	Platanus occidentalis
walnut, black (1)	Juglans nigra

Evergroops	
Evergreens	
Douglas fir	Pseudotsuga menziesii
fir:	
fraser	Abies fraseri
grand	Abies grandis
noble	Abies procera
hemlock:	
eastern hemlock	Tsuga canadensis
pine:	
Austrian	Pinus nigra
eastern white	Pinus strobus
Himalayan	Pinus wallichiana
jack	Pinus banksiana
lobiolly	Pinus taeda
lodgepole	Pinus contorta
longleaf	Pinus palustris
monterey	Pinus radiata
mugo	Pinus mugo
ponderosa	Pinus ponderosa
scotch	Pinus sylvestris
shortleaf	Pinus echinata
slash	Pinus elliottii
Virginia	Pinus virginiana
spruce:	
blue	Picea pungens
dwarf Alberta	Picea glauca Conica
Norway	Picea abies
Sitka	Picea sitchensis
eucalyptus	E. viminalis
	E. pulverulenta
	E. camaldulensis
arborvitae	Thuja occidentalis
•	Thuja orientalis
juniper	Juniperus species.
red cedar	Juniperus virginiana
western hemlock	Tsuga heterophylla
yew	Taxus species
75	1 razas species

- (1) Apply as directed to nonbearing trees. For bearing treefruit, nut and vine crops, refer to the **Tree/Nut/Vine** section of this label for use directions.
- (2) Do not apply to maple trees used for production of maple sap or maple syrup.

Weeds Controlled

Refer to use directions for a specific crop'for application timing and rates.

Weeds Controlled by Preemergence Application of Rawhide:

ageratum amaranth, spiny barnyardgrass bedstraw, catchweed beggarweed, florida bittercress, lesser bluegrass, annual buckwheat, wild burclover buttercup, smallflower buttonweed camphorweed carpetweed cheeseweed (malva) clover, red clover, white cocklebur, common crabgrass crotalaria cudweed, narrowleaf cupgrass, southwest cupgrass, woolly eveningprimrose, cutleaf fiddleneck, coast filaree, broadleaf filaree, redstem filaree, whitestem fireweed (from seed) flixweed foxtail foxtail, giant foxtail, green

foxtail, robust purple

foxtail, yellow

geranium, Carolina goosegrass groundcherry, cutleaf groundcherry, Wright groundsel, common henbit iimsonweed johnsongrass, seedling knotweed, prostrate ladysthumb lambsquarters, common lettuce, prickly mayweed minerslettuce morningglory (Ipomoea spp.) mustard, blue mustard, common yellow mustard, hedge mustard, tumble mustard, tumble (Jim hill mustard) mustard, wild nettle, burning nightshade, American black nightshade, black nightshade, hairy oats, wild orach, red oxalis oxalis (bermuda buttercup)

panicum, Texas pepperweed, Virginia pepperweed, yellowflower pigweed, prostrate pigweed, redroot pimpernel, scarlet poinsettia, wild purslane, common pusley, florida ragweed, common redmaids rocket, London ryegrass, Italian sandbur, field sandspurry, red shepherdspurse sida, prickly (teaweed) signalgrass, broadleaf smartweed, pennsylvania sorrel, red (from seed) sowthistle, annual sowthistle, common speedwell, birdseye spurge, garden spurge, prostrate spurge, spotted spurry, corn tansymustard thistle, bull thistle, Russian velvetleaf witchgrass woodsorrel, yellow

Weeds Controlled by Postemergence Applications of Rawhide:

panicum, fall

	Rate	of Rawhide (pt	acre)
Weed Species	1-2	3-4	5-8
	Maxim	um Height/Leng	gth Inches)
amaranth, palmer	1-4	-	-
amaranth, spiny	1-4		<u>-</u>
balsamapple	1-4	-	-
barnyardgrass	1-4 ^{††}	3-8	9-12
bedstraw, catchweed	1-4	-	-
bermudagrass	1-4 ^{††}	1-4 ^{††}	-
bittercress, lesser	1-4	-	-
bluegrass, annual	1-4 ^{††}	8-12	-
buckwheat, wild	1-4	-	-
burclover	1-4	_	-
buttercup, smallflower	1-4	12-24	-
canarygrass (annual)	1-4	-	-
Carolina geranium	1-4	2-4	5-9
carpetweed	1-4 ^{††}	6-12	-

Chickweed 1-4 ^{††} 12-24	cheeseweed (malva parviflora)	1-4	3-6	6-9
Clover, red		1_11		
Clover, white				
1.4 12.24				
crabgrass 1-4 6-24 - croton, tropic 1-4 - - cudwed, narrowleaf 1-4 ^{††} - - cudwed, narrowleaf 1-4 ^{††} - - cuded evening primrose 1-4 ^{††} 4-6 7-12 filaree, evenidestem 1-4 ^{††} - 6-12 filaree, whitestem 1-4 ^{††} - 6-12 filaree, whitestem 1-4 ^{††} - 6-12 fileabane, hairy 1-4 ^{††} - 6-9 (conyza bonariensis) 1-4 ^{††} - 6-9 fleabane, hairy 1-4 ^{††} - 6-9 (conyza bonariensis) 1-4 ^{††} - - 6-9 flaabane, hairy 1-4 ^{††} - - - 6-9 (conyza bonariensis) 1-4 ^{††} 3-12 - - - - - - - - - - - - - - - - - - <				
croton, tropic 1-4 - - cudweed, narrowleaf 1-4 ^{††} - - cutleaf evening primrose 1-4 ^{††} - - fiddleneck, coast 1-4 ^{††} 4-6 7-12 filaree, broadleaf 1-4 ^{††} - 6-12 filaree, redstem 1-4 ^{††} - 6-12 filaree, whitestem 1-4 ^{††} - - filaree, whitestem 1-4 ^{††} - - - filaree, whitestem 1-4 ^{††} - - - - - - - -				
culdweed, narrowleaf 1-4 ^{††} - - </td <td></td> <td></td> <td></td> <td></td>				
cutleaf evening primrose 1-4 ^{††} 4-6 7-12 fiddleneck, coast 1-4 ^{††} 4-6 7-12 filaree, broadleaf 1-4 ^{††} - 6-12 filaree, redstem 1-4 ^{††} - 6-12 filaree, whitestem 1-4 ^{††} - 6-12 fine fescue 1-4 ^{††} - 6-12 fine fescue 1-4 ^{††} - - 6-12 fine fescue 1-4 ^{††} - - - fleabane, nairy 1-4 ^{††} - - - fleabane, nairy 1-4 ^{††} 3-12 - - florida pusley 1-2 - - - foxtail, gaint 1-4 ^{††} - - - foxtail, gaint 1-4 ^{††} - - -		1-4		
fildeleneck, coast		1-4''	<u> </u>	
filaree, broadleaf filaree, redstem filaree, whitestem filaree, whitestem fine fescue fleabane, hairy (conyza bonariensis) fleabane, rough florida pusley flexit, green foxtail, green foxtail, green foxtail, yellow geranium, Carolina groundcherry, cutleaf groundcherry, Wright targoundcherry, Wright herbit horseweed/ marestail (conyza canadensis) jimsonweed florida pusley florida pusley floxidail, green foxtail, yellow geranium, Carolina floxidail, green floxtail, yellow geranium, Carolina floxidail, green floxtail, yellow floxidail, green floxtail, green floxtail, green floxtail, green floxtail, yellow floxidail, green floxtail, gree				
filaree, redstem filaree, whitestem filarei, default filaree, whitestem filaree, whitestem filaree, whitestem filaree, whitestem filaree, whitestem filaree, whitestem filarei, default filaree, whitestem filaree, of -12 - 5-6 for 12 - 12				
filaree, whitestem fine fescue fine fescue fleabane, hairy (conyza bonariensis) fleabane, rough florida pusley floxtail, green foxtail, green foxtail, yellow geranium, Carolina groundcherry, cutleaf groundcherry, Wright flenbit fleabane fleabane fleabane fleabane, rough florida pusley florida pusley floxtail, green foxtail, green foxtail, green foxtail, yellow floxtail, green flo		1-4''		
fine fescue fleabane, hairy (conyza bonariensis) fleabane, rough florida pusley florida pusley floxtail, giant foxtail, giant foxtail, yellow geranium, Carolina goosegrass flowedrry, cutleaf florida pusley florida pusley floxtail, green foxtail, yellow geranium, Carolina floxtail, yellow floxtail, yellow floxtail, yellow floxtail, yellow floxtail, yellow floxtail, yellow floxtail, green floxtail, yellow floxtail, green floxtail, yellow floxtail, green floxtail, gree		1-4 ^{TT}	-	
Teabane, hairy	filaree, whitestem	1-4 ^{††}	-	6-12
(conyza bonariensis) 1-4 ^{††} 3-12 - florida pusley 1-2 - 5-6 foxtail, giant 1-4 ^{††} - - foxtail, green 1-4 ^{††} - - foxtail, yellow 1-4 ^{††} - - geranium, Carolina 1-4 ^{††} - - goosegrass 1-4 ^{††} - - groundcherry, Carolina 1-4 ^{††} - - groundcherry, Uright 1-4 6-12 - groundcherry, Wright 1-4 6-12 - groundsel, common 1-4 ^{††} 6-12 - henbit 1-4 4-6 7-20 horseweed/ marestail 1-4 ^{††} 6-12 - (conyza canadensis) jimsonweed 1-4 ^{††} 4-6 7-12 johnsongrass, seedling 1-4 ^{††} 4-6 7-12 johnsongrass, seedling 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} 3-8 9-12		1-4 ^{††}	-	-
fleabane, rough florida pusley flori	fleabane, hairy	1-4 ^{††}	-	6-9
1-2	(conyza bonariensis)			
foxtail, giant 1-4 ^{1†} - - foxtail, green 1-4 ^{1†} - - foxtail, yellow 1-4 ^{1†} - - geranium, Carolina 1-4 ^{1†} - - goosegrass 1-4 ^{1†} 3-8 9-18 groundcherry, cutleaf 1-4 6-12 - groundcherry, Wright 1-4 6-12 - hembit 1-4 6-12 - hembit 1-4 4-6 7-20 horseweed/ marestail 1-4 ^{1†} 6-12 - (conyza canadensis) jimsonweed 1-4 ^{1†} 4-6 7-12 johnsongrass, seedling 1-4 ^{1†} 3-8 9-12 Kentucky bluegrass 1-4 ^{1†} 3-12 13-20	fleabane, rough	1-4**	3-12	-
foxtail, green 1-4 ^{††} - - foxtail, yellow 1-4 ^{††} - - geranium, Carolina 1-4 ^{††} - - geranium, Carolina 1-4 ^{††} - - goosegrass 1-4 ^{††} 3-8 9-18 groundcherry, cutleaf 1-4 6-12 - groundcherry, Wright 1-4 6-12 - groundcherry, Wright 1-4 6-12 - groundsel, common 1-4 ^{††} 6-12 - hembit 1-4 ^{††} - 5-8 henbit 1-4 ^{††} - 5-8 henbit 1-4 ^{††} - - horseweed/ marestail 1-4 ^{††} 6-12 - (conyza canadensis) jimsonweed 1-4 ^{††} 4-6 7-12 johnsongrass, seedling 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} 3-12 13-20	florida pusley	1-2	-	5-6
foxtail, green 1-4 ^{††} - - foxtail, yellow 1-4 ^{††} - - geranium, Carolina 1-4 ^{††} - - goosegrass 1-4 ^{††} - - groundcherry, cutleaf 1-4 6-12 - groundcherry, Wright 1-4 6-12 - groundsel, common 1-4 ^{††} 6-12 - hembit 1-4 ^{††} - 5-8 henbit 1-4 ^{††} - 5-8 henbit 1-4 ^{††} - - horseweed/ marestail 1-4 ^{††} 6-12 - (conyza canadensis) jimsonweed 1-4 ^{††} 4-6 7-12 johnsongrass, seedling 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} 3-12 13-20 ladysthumb 1-4 - - ladysthumb 1-4 - - ladysthumb		1-4 ^{††}	-	
foxtail, yellow 1-4 ^{ff} - - geranium, Carolina 1-4 ^{ff} - - goosegrass 1-4 ^{ff} 3-8 9-18 groundcherry, cutleaf 1-4 6-12 - groundcherry, Wright 1-4 6-12 - groundsel, common 1-4 ^{ff} 6-12 - hemp sesbania 1-4 ^{ff} - 5-8 henbit 1-4 4-6 7-20 horseweed/ marestail (conyza canadensis) 1-4 ^{ff} 6-12 - jimsonweed 1-4 ^{ff} 4-6 7-12 johnsongrass, seedling 1-4 ^{ff} 3-8 9-12 Kentucky bluegrass 1-4 ^{ff} 3-8 9-12 Kentucky bluegrass 1-4 ^{ff} - - knotweed 1-4 ^{ff} 3-12 13-20 ladysthumb 1-4 - - 1-4 ^{ff} 3-12 13-20 ladysthumb 1-4 ^{ff} 6-12 13-20 mayweed 1-4 ^{ff}		1-4 ^{††}	-	
geranium, Carolina 1-4 ^{††} - - goosegrass 1-4 ^{††} 3-8 9-18 groundcherry, cutteaf 1-4 6-12 - groundsel, common 1-4 ^{††} 6-12 - hemp sesbania 1-4 ^{††} 6-12 - hemp sesbania 1-4 ^{††} - 5-8 henbit 1-4 ^{††} 6-12 - horseweed/ marestail (conyza canadensis) 1-4 ^{††} 6-12 - jimsonweed 1-4 ^{††} 4-6 7-12 johnsongrass, seedling (conyza canadensis) 1-4 ^{††} 12-24 - jimsonweed 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} 3-8 9-12 kentucky bluegrass 1-4 ^{††} - - knotweed 1-4 ^{††} - - ladysthumb 1-4 - - ladysthumb 1-4 - - lambsquarters 1-4 ^{††} 6-12 13-20 mayweed <td></td> <td></td> <td>-</td> <td><u>.</u></td>			-	<u>.</u>
goosegrass 1-4 ^{††} 3-8 9-18 groundcherry, cutleaf 1-4 6-12 - groundcherry, Wright 1-4 6-12 - groundsel, common 1-4 ^{††} 6-12 - hemb sesbania 1-4 ^{††} - 5-8 henbit 1-4 ^{††} - 5-8 henbit 1-4 ^{††} 6-12 - horseweed/ marestail 1-4 ^{††} 6-12 - (conyza canadensis) 1 - - jimsonweed 1-4 ^{††} 4-6 7-12 johnsongrass, seedling 1-4 ^{††} 12-24 - junglerice 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} - - kentucky bluegrass 1-4 ^{††} - - kentucky bluegrass 1-4 ^{††} - - ladysthumb 1-4 - - - ladysthumb 1-4 - - - lambsquarters			-	-
groundcherry, cutleaf 1-4 6-12 - groundcherry, Wright 1-4 6-12 - groundsel, common 1-4 ^{††} 6-12 - hemp sesbania 1-4 ^{††} 6-12 - henbit 1-4 ^{††} 6-12 - horseweed/ marestail 1-4 ^{††} 6-12 - (conyza canadensis) 1 6-12 - jimsonweed 1-4 ^{††} 4-6 7-12 johnsongrass, seedling 1-4 ^{††} 12-24 - junglerice 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} - - knotweed 1-4 ^{††} - - ladysthumb 1-4 - -			3-8	9-18
groundcherry, Wright groundsel, common 1-4 ^{ff} 6-12 - hemp sesbania 1-4 ^{ff} 1-4 4-6 7-20 horseweed/ marestail (conyza canadensis) jimsonweed jimsonweed 1-4 ^{ff} 1-2-24 - johnsongrass, seedling 1-4 ^{ff} 1-2-24 - kentucky bluegrass 1-4 ^{ff} 1-4 1-7 1-8 1-8 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9 1-9				
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horseweed/ marestail (conyza canadensis) jimsonweed 1-4 ^{††} 4-6 7-12 johnsongrass, seedling 1-4 ^{††} 12-24 - junglerice 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} knotweed 1-4 ^{††} 3-12 13-20 ladysthumb 1-4 lambsquarters 1-4 ^{††} 6-12 13-20 mayweed 1-4 minerslettuce 1-4 ^{††} 6-20 - lettuce, prickly 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} mustard, blue 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 -				
imsonweed 1-4 ^{††} 4-6 7-12 johnsongrass, seedling 1-4 ^{††} 12-24 - junglerice 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} - - knotweed 1-4 ^{††} 3-12 13-20 ladysthumb 1-4 - - lambsquarters 1-4 ^{††} 6-12 13-20 mayweed 1-4 - - elttuce, prickly 1-4 ^{††} 6-20 - London rocket 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 6-12 - mustard, common yellow 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 -				
jimsonweed 1-4 ^{††} 4-6 7-12 johnsongrass, seedling 1-4 ^{††} 12-24 - junglerice 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} knotweed 1-4 ^{††} 3-12 13-20 ladysthumb 1-4 lambsquarters 1-4 ^{††} 6-12 13-20 mayweed 1-4 minerslettuce 1-4 ^{††} 6-20 - lettuce, prickly 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 1 mustard, black 1-4 ^{††} 1 mustard, blue 1-4 ^{††} 1 mustard, hedge 1-4 ^{††} 1 mustard, tansy 1-4 ^{††} 1 mustard, tumble 1-4 ^{††} 1 mustard, wild 1-4 ^{††} 6-18 -	i f	1-4	0-12	-
johnsongrass, seedling		1-177	4-6	7-12
junglerice 1-4 ^{††} 3-8 9-12 Kentucky bluegrass 1-4 ^{††} - - knotweed 1-4 ^{††} 3-12 13-20 ladysthumb 1-4 - - lambsquarters 1-4 ^{††} 6-12 13-20 mayweed 1-4 - - minerslettuce 1-4 ^{††} - - lettuce, prickly 1-4 ^{††} 6-20 - London rocket 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} - - mustard, hedge 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 -				
Kentucky bluegrass 1-4 ^{††} - - knotweed 1-4 ^{††} 3-12 13-20 ladysthumb 1-4 - - lambsquarters 1-4 ^{††} 6-12 13-20 mayweed 1-4 ^{††} 6-12 13-20 mayweed 1-4 ^{††} - - minerslettuce 1-4 ^{††} - - lettuce, prickly 1-4 ^{††} - - London rocket 1-4 ^{††} 6-20 - London rocket 1-4 ^{††} 6-12 - mustard, common yellow 1-4 ^{††} 2-4 5-6 mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} - - mustard, hedge 1-4 ^{††} - - mustard, tansy 1-4 ^{††} - - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 -				0.12
knotweed 1-4 ^{††} 3-12 13-20 ladysthumb 1-4 - - lambsquarters 1-4 ^{††} 6-12 13-20 mayweed 1-4 ^{††} 6-12 1- minerslettuce 1-4 ^{††} - - lettuce, prickly 1-4 ^{††} 6-20 - London rocket 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - - -		1 411	3-0	3-12
ladysthumb 1-4 - - lambsquarters 1-4 ^{††} 6-12 13-20 mayweed 1-4 - - minerslettuce 1-4 ^{††} - - lettuce, prickly 1-4 ^{††} 6-20 - London rocket 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -		1 4 1 1	2 12	12.20
lambsquarters 1-4 ^{††} 6-12 13-20 mayweed 1-4 - - minerslettuce 1-4 ^{††} - - lettuce, prickly 1-4 ^{††} 6-20 - London rocket 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -			3-12	13-20
mayweed 1-4 - - minerslettuce 1-4 ^{††} - - lettuce, prickly 1-4 ^{††} 6-20 - London rocket 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard, tansy 1-4 ^{††} - - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -			6 10	12.20
minerslettuce 1-4 ^{††} - - lettuce, prickly 1-4 ^{††} 6-20 - London rocket 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard species 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -			0-12	13-20
lettuce, prickly 1-4 ^{††} 6-20 - London rocket 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard species 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -		1-4	-	
London rocket 1-4 ^{††} 6-12 - morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard species 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -		1-4		-
morningglory (ipomoea spp.) 1-4 ^{††} 2-4 5-6 mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard species 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -		1-4''		
mustard, common yellow 1-4 ^{††} - - mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard species 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -	·····			
mustard, black 1-4 ^{††} - - mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard species 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -			2-4	5-6
mustard, blue 1-4 ^{††} 6-18 - mustard, hedge 1-4 ^{††} - - mustard species 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -				
mustard, hedge 1-4 ^{††} - - mustard species 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -	mustard, black	1-4''		
mustard species 1-4 ^{††} - - mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -		1-4''	6-18	
mustard, tansy 1-4 ^{††} 6-18 - mustard, tumble 1-4 ^{††} 6-18 - mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4 - -		1-4''		-
mustard, tumble $1-4^{\dagger\dagger}$ $6-18$ - mustard, wild $1-4^{\dagger\dagger}$ $6-18$ - nettle, burning $1-4$				
mustard, wild 1-4 ^{††} 6-18 - nettle, burning 1-4				
nettle, burning 1-4		1-4 ^{††}		
	mustard, wild	1-4 ^{††}	6-18	-
nightshade, American black 1-4 ^{††} 6-18 -	nettle, burning		•	
	nightshade, American black	1-4 ^{ff}	6-18	-



nightshade, black	1-4 ^{ff}	6-18	-
oxalis	1-4 ^{††}		-
pepperweed, Virginia	1-4 ^{††}	12-18	_
perennial ryegrass	1-4 ^{††}	- :	_
pigweed, prostrate	1-4 ^{††}	12-24	-
pigweed, redroot	1-4 ^{††}	-	<u> </u>
pimpernel, scarlet	1-4	_	-
poison ivy	-	1-5 ^{††}	_
poinsettia, wild	1-4	-	_
puncturevine	1-4	-	-
purslane	1-4	4-6	7-12
pusley, florida	1-4 ^{††}	-	_
ragweed, common	1-4	-	
redmaids	1-4	6-12	·
rocket, London	1-4		-
ryegrass, common	1-4 ^{††}	4-6	7-18
sage, lanceleaf	1-4	-	-
sandbur, field	1-4	-	-
sandspurry, red	1-4	-	-
shepherdspurse	1-4 ^{††}	6-12	-
sicklepod	1-4 ^{††}	-	5-8
signalgrass, broadleaf	1-4 ^{††}	-	-
smartweed, ladysthumb	1-4	4-8	9-12
smartweed, Pennsylvania	1-4 ^{††}	4-8	9-12
sowthistle, annual	1-4	4-6	7-12
spurge, prostrate	1-4 ^{††}	6-20	-
spurge, garden	1-4 ^{††}	6-20	-
spurge, spotted	1-4 ^{††}	6-20	-
teaweed/ prickly sida	1-4 ^{ff}		4-6
velvetleaf south	1-4		· 5-8
north	1-4	3-12	-

[†] Application to weeds beyond the designated size may result in partial control.

Terms and Conditions of Use

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Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

^{††} The higher rate and/or multiple applications maybe required.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

- 1. Refund of purchase price paid by buyer or user for product bought, or
- 2. Replacement of amount of product used

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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[Editor's note: The "B" portion contains residential uses.]

Rawhide[®]

Herbicide

Kills existing broadleaf weeds and grasses and prevents new weeds from sprouting for up to 4 months in such areas as:

- In or around driveways, patios and sidewalks
- Along fences walkways, curbs and gutters
- · Cracks in driveways, patios and sidewalks
- Around established woody ornamentals
- Over root zones in landscaped areas without harming ornamental plants

[Editor's Note: See appendix for consolidated listing of label claims.]

IMPORTANT: This product is phytotoxic to plant foliage. Apply as a coarse spray to the soil surface and target weeds. Do not allow spray or spray mist to contact foliage, green stems and exposed non-woody roots of desirable plants, as severe plant injury or destruction may result.

Active Ingredients: oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy) 4-(trifluoromethyl) benzene

 isopropylamine salt.
 20.3%

 Other Ingredients
 59.4%

 Total
 100.0%

Contains 2 lb of oxyfluorfen and 2 lb of glyphosate isopropylamine salt per gallon

Keep Out of Reach of Children

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful if inhaled. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- · Shoes plus socks

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Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove contaminated clothing and wash clothing before reuse.

First Aid

If inhaled: 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: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

Environmental Hazards

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

Physical or Chemical Hazards

Spray solutions of this product should be mixed and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

Shake Well Before Using

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

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Produced for Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

EPA Reg. No. 62719-448

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Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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.

Do not allow people or pets eo enter treated area until sprays have dried.

Storage and Disposal

Pesticide Storage: Store in a cool dry place out of the reach of children and domestic animals. Store this product in the original container only. Do not allow this product to freeze.

Container Reuse: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available

Shake Well Before Using

General Information

Rawhide® herbicide kills existing broadleaf weeds and grasses and prevents new weeds from sprouting for up to 4 months in such areas as:

- In or around driveways, patios and sidewalks
- · Along fences walkways, curbs and gutters
- Cracks in driveways, patios and sidewalks
- Around established woody ornamentals
- Over root zones in landscaped areas without harming ornamental plants

[Editor's Note: See appendix for consolidated listing of label claims.]

General Use Precautions and Restrictions

IMPORTANT: Contact with sprays of this product will injury of kill desirable plants. Apply as a coarse spray to the soil surface. Do not allow spray or spray mist to contact foliage, green stems and exposed non-woody roots of desirable plants, as severe plant injury or destruction may result. A shield made of plastic or cardboard is recommended to prevent spray contact with foliage or green stems of desirable ornamental plants. Groundcovers and bedding plants may be transplanted into treated areas if root systems are backfilled with untreated soil. Use in or around established ground covers or bedding plants may result in unavoidable plant injury and is not recommended.

Do not apply this product in a way that will contact people or pets.

For optimum results do not disturb the soil surface of the treated area for the period of time for which weed control is desired. Do not attempt to seed or transplant into the treated area unless soil is thoroughly mixed to a depth of 4 inches.

For optimum control in landscaped areas, apply Rawhide before spreading [putting down] mulch around trees and shrubs.

- Do not apply to any body of water.
- Do not apply to exposed roots of desirable plants.

Rawhide is phytotoxic to plant foliage. Do not apply under windy conditions or when wind is blowing from treated area toward non-target plants.

Control of Existing Weeds: Uniformly wet target weed foliage and soil surface using a coarse low pressure spray. For best results, apply when emerged weeds are small and actively growing.

Long-term Weed Control: Rawhide prevents new weeds from growing in treated areas for up to 4 months. For best results, soil surfaces should be smooth and free of leaves, clippings, etc., and receive at least one-quarter inch (1/4 inch) of irrigation or rainfall within a few weeks after application. Use a higher rate in the rate range where heavy weed growth is expected or where long-term weed prevention is desired.

Application Directions

Hand-Held Sprayers: Use hand-held tank or back-pack sprayers may be used. A trigger sprayer may be used for treatment of small areas, cracks in sidewalks, etc. Apply the spray uniformly to the soil surface and target weeds (avoid generating mist). Use rates in table below to control existing weeds and to prevent new weeds from sprouting. Use higher rate in rate range when extended weed control for up to 4 months is desired.

If using a trigger sprayer, mix 2 to 4 tsp (10 to 20 ml) of Rawhide in 1 quart of water. A trigger sprayer can be used to treat small areas (avoid generating mist). Adjust the sprayer nozzle to produce a narrowed spray pattern or straight stream for application in confined areas, for trimming or edging around landscaped areas, walkways or driveways, or to control weeds in cracks in patios, sidewalks or driveways.

Note: Do not allow sprays or spray mist to contact foliage of desirable plants or woody plants with green stems. Use a shield made of cardboard or plastic, if necessary, to prevent spray contact with foliage of desirable plants.

Application Rates for Residual Weed Control:

45-day residual	90-day residual	120-day residual
1.0 fl oz/1000 sq ft	1.84 fl oz/1000 sq ft	2.94 fl oz/1000 sq ft
3 ml/100 sq ft	6 ml/100 sq ft	9 ml/100 sq ft

Conversion factors: 1 fl oz = 30 ml

1 fl oz = 2 tablespoons 1 fl oz = 6 teaspoons 1 tablespoon = 15 ml 1 teaspoon = 5 m.

Sprayer Cleanout: Thoroughly flush sprayer with clean water before and after each use. Residual Rawhide remaining in spray equipment can cause severe plant injury during subsequent use. To assist removal of residues in spray equipment, add a few drops of liquid detergent to the rinse water. Dispose of rinse water on bare soil surface in treatment area.

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Warranty Disclaimer

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Inherent Risks of Use

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Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Seller's election, one of the following:

- 1. Refund of purchase price paid by buyer or user for product bought, or
- 2. Replacement of amount of product used

Seller shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Seller be liable for consequential or incidental damages or losses.

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Appendix 1: Consolidated List of Label Claims

Kills existing broadleaf weeds and grasses and prevents new weeds from sprouting for up to 4 months in such areas as:

- In or around driveways, patios and sidewalks
- . Along fences walkways, curbs and gutters
- Cracks in driveways, patios and sidewalks
- Around established woody ornamentals
- Over root zones in landscaped areas without harming ornamental plants
- Long-lasting weed and grass control
- Kills existing weeds and keeps weeds from germinating for up to 4 months
- · Use before spreading [putting down] mulch
- Kills unwanted weeds and grasses, roots and all
- Works two ways; kills existing weeds and keeps treated area weed-free for up to 4 months
- · Prevents new weeds from sprouting for up to 4 months
- Kills weeds in landscape beds and around fences, trees, shrubs, driveways, walkways and shrubs, in and around fences, patios, paths, sidewalks, cracks and walkways
- Economical mix 2 to 6 tablespoons (1 to 3 fl oz) per gallon [1.5 to 4.5 teaspoons per guart]
- Concentrated for extra value
- Economical concentrate
- Completely kills even the toughest weeds and grasses and keeps them from coming back for up to 4
 months
- Prevents weeds from growing in cracks in sidewalks and driveways
- Multipurpose grass and broadleaf weed control
- Visible results in 7 days
- Works for up to 4 months
- Prevents weeds from germinating for up to 4 months

Ready to use product can also list the following:

Easy to use