

71995-29

10-31-2001

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

71995-29

Date of Issuance:

OCT 31 2001

NOTICE OF PESTICIDE:

 x Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

MON 78307 Herbicide

Name and Address of Registrant (include ZIP Code):

Monsanto Company
600 13th Street, N.W. Suite 660
Washington, DC 20005

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, at his option, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit the storage stability and corrosion characteristics study once it is completed.
2. Submit/cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
3. Add the phrase "EPA Registration No. 71995-29" before you release the product for shipment.
4. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of this product constitutes acceptance of these conditions.

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

Signature of Approving Official:

Date:

10-31-01

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[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims/instructions]

MON 78307 Herbicide

Active Ingredient
Glyphosate, isopropylamine salt 18.0 %
Diquat dibromide..... 0.73 %
Other Ingredients81.27 %

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel booklet for additional precautionary statements.
(Read precautions and directions on back label.)

NET [xxx]

ACCEPTED
OCT 31 2001
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 71995-29

MON 78307 Herbicide
EPA Reg No. 71995-EO

Product Facts	
Treats up to xx sq ft (approx. size of XX tennis courts) [When calculating coverage, one gallon treats 300 sq ft and a tennis court is 2,106 sq ft.]	
KILLS WEEDS	[Illustrate grassy, broadleaf and woody weeds] ALL TYPES OF WEEDS & GRASSES
WHERE TO USE	<ul style="list-style-type: none"> • On patios, walkways, driveways, gravel or mulch beds • Around flowers, shrubs or trees • Along fences • Other areas in your yard
AMOUNT TO USE	For best results • 6 fl oz (12 Tbs) per gallon of water
[phone icon] Questions, Comments or Medical Information call 1-800-225-2883 www.roundup.com (call 1-888-Roundup)	

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MIXING INSTRUCTIONS

[optional tank sprayer illustration]

Tank Sprayer (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel. *(Do not (mix, store or) apply with (in) a galvanized or unlined steel sprayer.)*

- (For tough established weeds / For best results,) add 6 fl oz (12 Tbs) to 1 gallon of water.
- (For easy to kill weeds such as small seedlings, add 3 fl oz (6 Tbs) to 1 gallon of water.)
- (Spot treat)

1 Tablespoon (Tbs) = 3 teaspoons (tsp)

1 fl oz = 2 Tbs

Do not (mix, store or) apply with (in) a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

USER SAFETY RECOMMENDATIONS *[optional illustration]*

- Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separate from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing immediately if product gets inside; then wash thoroughly and put on clean clothing.

HOW TO APPLY *[optional illustration]*

- Spray the weeds or grasses you want to kill until thoroughly wet.
- When spot treating weeds around desirable plants, shield plants from drift with a sheet (piece) of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

IMPORTANT: Do not spray plants or grasses you like - they may die too. Not recommended for spot weed control in lawns since MON 78307 (Roundup) kills lawn grasses.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application.

WHEN TO APPLY *[optional illustration]*

- Use anytime weeds and grasses are actively growing. (Apply when weeds are actively growing.)
- For best results, apply during warm, sunny weather (above 60° F) to accelerate systemic movement from foliage to roots.
- Apply when air is calm to prevent drift to desirable plants.
- (RAIN-PROOF:) Rain or watering 2 hours (30, 60, or 90 minutes) after application will not wash away effectiveness.
- (Apply when weeds are small and before seeds form. Established (Hard to kill) weeds may require a repeat application.)

ADDITIONAL TIPS *[optional illustration]*

- **To Kill Vines**
 - If vines are growing up poles, fences, or tree trunks with mature bark, cut vines to a height of 3 to 4 feet and spray vines thoroughly.
 - If vines are climbing shrubs or tree trunks with green bark, cut vines at base and

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treat as directed for stumps or spray regrowth. If spraying regrowth, shield shrubs and green bark from spray drift with a sheet (piece) of cardboard or plastic.

- **To Kill Stumps**

- Cut living stump close to ground.
- Drive 4 to 5 holes into freshly cut stump.
- Immediately pour undiluted product into holes.

- **Kudzu**

For best results, apply in mid to late summer when vines are mature and actively growing.

- **Wild Blackberry**

Spray anytime plants are actively growing. Dead canes should be cut down and removed. Reapplication is often required to kill deep roots.

- **Poison Ivy & Poison Oak**

Contact with these plants anytime of the year can cause an allergic reaction. Spray anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply, if new growth appears. Handle dead plants with rubber gloves. Dispose of plants and rubber gloves in tightly sealed garbage bags

WHEN TO REPLANT *[optional illustration]*

- All ornamental flowers, trees and shrubs may be planted **2 days after** application.
- Lawn grasses may be planted **7 days after** application.

HOW IT WORKS *[optional illustration]*

MON 78307 (Roundup) enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Any product (Roundup) not absorbed by plants will be deactivated after it hits the soil. Weeds usually yellow and wilt within hours with complete kill in 1 to 2 weeks.

KILLS ALL TYPES OF WEEDS & GRASSES *[optional illustration]*

Weeds (including): Artichoke thistle, beggarweed, black medic, blue mustard, blue toadflax, brassbuttons, broadleaf plantain, burclover, buttercup, Canada thistle, cattail, chickweed, cocklebur, common groundsel, common mullein, common plantain, common ragweed, creeping beggarweed, creeping-charlie, curly dock, dandelion, dog fennel, evening primrose, false dandelion, fiddleneck, field bindweed (wild morningglory), field pennycress, filaree, Florida pusley, garden spurge, henbit, horsenettle, horseradish, horseweed/ maretail, iceplant, knapweed, knotweed, lambsquarters, lantana, little

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bittercress, London rocket, mallow, mayweed, milkweed, mouseear chickweed, narrowleaf (buckhorn) plantain, nightshade (silverleaf), oldenlandia, oxalis, Pennsylvania smartweed, pennywort, poison hemlock, prickly lettuce, primrose, prostrate spurge, puncturevine, ragweed, red clover, redroot pigweed, shepherdspurse, smooth catsear, smooth pigweed, sowthistle, spotted spurge, tansy ragwort, tansymustard, teaweed, trumpetcreeper, tumble mustard, Virginia creeper, white clover, whitetop, wild barley, wild mustard, wild oats, wild sweet potato, yellow starthistle, and other broadleaf weeds

Grasses (including): Annual bluegrass, annual ryegrass, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, bromegrass, Cogongrass, crabgrass, creeping bentgrass, dallisgrass, fall panicum, fescue, field sandbur, foxtail, goosegrass, guineagrass, Johnsongrass, Kentucky bluegrass, kikuyugrass, lovegrass, maidencane, nimblewill, nutsedge, orchardgrass, pampas grass, perennial ryegrass, purple nutsedge, quackgrass, sandspur, smooth bromegrass, sprangletop, St. Augustinegrass, tall fescue, Texas panicum, Timothy, torpedograss, vaseygrass, witchgrass, yellow nutgrass, zoysia and other grassy weeds

Brush (Tough Weeds), Unwanted Trees, Shrubs & Vines (including):

Alder, ash, (quacking) aspen, blackberry, bluegum eucalyptus, broom (French, Scotch), buckwheat, ceanothus, chamise, cherry, coyote brush, dewberry, elderberry, elm, eucalyptus, giant reed, hawthorn, hazel, honeysuckle, kudzu, locust, madrone, maple, oak, persimmon, poison oak, poison ivy, poplar, raspberry, sage, sagebrush, salmonberry, saltcedar, sassafras, sumac, sweetgum, tan oak, thimbleberry, tree tobacco, wild rose (multiflora) willow and other tough weeds

STORAGE AND DISPOSAL *[trash can illustration]*

STORAGE: Store in original container in a safe place.

DISPOSAL: Empty Container: Put in trash. (Recycle where available.) **Partially Full Container:** Call your local waste disposal service (1-800-CLEANUP). If local laws permit, put partially full container in trash. Never pour product down any drain.

HOW TO REFILL ROUNDUP READY-TO-USE CONTAINERS

• **24 fl oz Roundup Weed & Grass Killer¹ Ready-To-Use:**

To empty container add 2 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

• **½ Gallon Roundup Weed & Grass Killer¹ Ready-To-Use:**

To empty container add 5 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

• **Gallon Roundup Weed & Grass Killer¹ Ready-To-Use:**

To empty container add 10 oz of MON 78307 (Roundup Concentrate) then fill with

water very slowly to avoid foaming.

• **1.33 Gallon Roundup PNS (II):**

To empty container add 13 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

• **6L Roundup Weed & Grass Killer¹ Ready-To-Use:**

To empty container add 16 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

• **2 Gallon Roundup Weed & Grass Killer¹ Ready-To-Use:**

To empty container add 20 fl oz of MON 78307 (Roundup Concentrate) then fill with water very slowly to avoid foaming.

PRECAUTIONARY STATEMENTS *[optional illustration]*

[re-entry icon] People and pets may enter treated area after spray has dried.

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION:

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

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

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing. • Call a poison control center (1-800-225-2883 or 1-888-768-6387 or 1-888-Roundup) 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 (1-800-225-2883 or 1-888-768-6387 or 1-888-Roundup) or doctor for treatment advice.
Emergency Medical Information	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-225-2883 (1-888-768-6387 or 1-888-Roundup) for emergency medical treatment information.	

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ENVIRONMENTAL HAZARDS: This product is toxic to aquatic invertebrates. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

This product is protected by U.S. Patents No. 5,683,958 and No. 5,703,015 and No. 6,063,733 and No. 6,121,199 and No. 6,121,200. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered if for reformulation or repackaging.

<p>[phone icon] Questions, Comments or Medical Information call 1-800-225-2883 www.roundup.com (call 1-888-Roundup)</p>
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Roundup is a trademark of Monsanto Company

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Manufactured for
Monsanto Company, Lawn & Garden Products
P.O. Box 1750
Columbus, OH 43216
Form []
EPA Reg. No. 71995-EO
EPA Est. 239-1A-3I, 58996-MO-1A
Superscript is first letter of lot number
Made in USA

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APPENDIX 1 – Consolidated List of Label Claims
[Ordered alphabetically]

- Absorbed into both broadleaf and grassy weeds
- Absorbs on contact, starts working immediately
- Absorbs 3 times (X) faster to the root than competitive brands for quicker, more effective root kill
- Approved for most (many) lawn and garden uses
- Before [weed graphics] / After [weed graphics]
- Begins absorbing on contact
- Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots
- Can reseed or sod lawns 7 days after treatment
- Concentrated for extra value
- Contains FastAct™ (technology)
- Dare to compare (a picture is worth 1,000 words): Roundup works faster than any competitor (imitator)
- Dead Weeds Guaranteed
- Dead Weeds Guaranteed or Your Money Back
- Dead (weeds) in a day
- Does not have soil activity
- Economical
- Economical concentrate formula
- Easy to apply with a tank or (hand held) trigger sprayer
- Even if it rains – Roundup won't lose its effectiveness
- Exclusive Roundup formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- Fast-acting formula
- Fast-acting formula works twice as fast (50% faster)
- Fast-acting formula absorbs to root more quickly
- Faster than ever
- Fastest Roundup (formulation) ever
- For control that doesn't (won't) wash away
- For general weed control - kills weeds and grasses in 2 to 4 weeks - roots and all
- For weeds that are dead in a (one) day
- Guaranteed same effective results even if it rains within hours
- Guaranteed effective: Kills over 200 types of weeds and grasses, roots and all, with

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just one application

- Guaranteed (we guarantee it)
- Ideal for killing unwanted weeds and grasses throughout your yard. Use along fences; in cracks of walks, drives and patios; and around flower beds, trees and shrubs
- Imitators (competitors) (other weedkillers) cannot match Roundup's proven performance: [picture of Roundup versus generic competitors]
- Improved extra strength formula
- Improved formula, completely kills even the toughest weeds and grasses
- Keeps driveways, walkways, landscaping beds, and flower gardens weed-free all season long
- Kills almost all (annual and perennial) weeds, grasses and other unwanted plants
- Kills existing weeds only, no residual activity in soil
- Kills more weeds in more places.
- Kills over 100 weeds
- Kills (to) the root
- Kills (the toughest weeds and grasses) the root so weeds (they) don't come back
- Kills the root so weeds don't come back
- Kills the roots of (both) broadleaf and grassy weeds
- Kills the weed you see and the root you don't
- Kills unwanted weeds and grasses, roots and all
- Kills weeds in flowerbeds, around trees, shrubs and fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- Kills weeds, roots and all
- Lawns and gardens can be reseeded or planted soon after treatment
- Make only what you need
- Multipurpose grass and broadleaf weed control
- NEW!
- Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
- No odor
- No root. No weed. No problem.
- Nobody kills more weeds
- Nobody's better than Roundup
- Nobody's faster
- Nobody's better
- Nothing is more effective
- Nothing works better
- Nothing kills more weeds
- NOW!
- Now a shorter wait for replanting!
- Once it enters the plant, it won't wash off
- One application kills over 200 types of weeds and grasses, roots and all (maximum effectiveness)
- Only Roundup's effectiveness (formula) won't be washed away by rain or watering 2

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hours (1 hour)(30 minutes) after treatment

- Proven (trusted) performance: Only Roundup works the first time, every time – and has for 25 years
- Provides maximum control: Kills weeds to the root so they don't ever come back
- Quick kill formula (the toughest)
- Quick-action formula lets you see results 50% faster than other brands
- Quick-action formula lets you see results two times faster than other brands
- Ornamental gardens can be reseeded or planted 1 day after treatment
- RainFast in hours - enters the plant on contact
- RAIN-PROOF™ (Mistake Proof)
- RAIN-PROOF™ in two hours (30, 60, or 90 minutes)
- Roundup can be used (almost) anywhere weeds and grasses grow, including patios, walkways, and driveways; along fences; in landscaping beds; or around flowers, shrubs and trees
- (Roundup) Kills the weed you see and the root others leave behind
- Roundup's exclusive (patented) formula (technology) kills to the root so weeds don't come back
- Roundup kills weeds and grasses in – Patios – Driveways – Sidewalks – Ornamental Gardens and other non-lawn areas
- Satisfaction guaranteed or we will gladly refund purchase price
- Satisfaction guaranteed or your money back with proof of purchase
- See results in hours
- See results in 24 hours
- Speeds absorption to the root for complete kill
- Spray weeds (Use) in flowerbeds, around trees, shrubs and around fences, and on patios, paths, sidewalks, sidewalk cracks, walkways, driveways, and other areas in your yard
- Starts to kill in hours
- Starts working immediately (in hours)
- Stronger
- The best weed killer you can buy – guaranteed (we guarantee it)
- The fastest weed killer (starts working immediately)
- The fastest concentrate formula
- The most effective weed (and grass) killer (you can buy)
- The strongest weed and grass killer you can buy: Guaranteed
- Superior results
- Transorb technology speeds Roundup to the root to kill even tough weeds
- Twice as fast
- Ultra concentrated formula
- Ultra formula
- (Use) For Brush Control
- (Use) For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, ornamental plantings, flowerbeds, and buildings, and in brick and gravel walkways.

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- Use to trim and edge landscape areas.
- (Use) For Spot Spraying: Use in and around flowerbeds, ornamental trees, shrubs, fences, driveways and walkways
- (Use) For Stumps
- (Use in) Apply with a Big Shot™ Multi-Purpose Sprayer or other tank sprayer, or a (hand held) trigger sprayer
- Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.
- Water based formula
- Won't wash off
- Won't wash away
- Works first time, every time
- Works in hours
- Works only when absorbed by the foliage of weeds

[Promotional options]

- Save up to \$[x] on (your) next purchase
- Free weed guide inside
- Free [] with this purchase of Roundup concentrate quart
- FREE REFILL
- FREE SAMPLE
- SAMPLE NOT FOR SALE

APPENDIX 2 – Packaging Related Claims

NET xx fl oz (qt or gal) (xx mL or L)
 6 fl oz (177 mL)
 13 oz (384 mL)
 16 fl oz (1 pt) (473 mL)
 32 fl oz (1 qt) 946 mL)
 53.7 fl oz (0.42 gal) (1.5 L)
 64 fl oz (1/2 gal) (1.89 L)
 128 fl oz (1 gal) (3.79 L)

[corner flap]

OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION

PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons

Makes between 'X' – 'Y' gallons

Mix with water to make 'X' gallons of spray solution

Covers up to 'Z' sq ft

Mix with water to cover up to 'Z' sq ft

[$X = \text{net contents} \div 3$]

[$Y = \text{net contents} \div 6$]

[$Z = X * 300$]

[Pint]

Makes up to 5 gallons

Makes between 2½ - 5 gallons

Mix with water to make 5 gallons of spray solution

Covers up to 1,500 sq ft

Mix with water to cover up to 1,500 sq ft

[Quart]

Makes up to 10 gallons

Makes between 5 – 10 gallons

Mix with water to make 10 gallons of spray solution

Covers up to 3,000 sq ft

Mix with water to cover up to 3,000 sq ft

[0.42 Gallon] Makes up to 18 gallons

Makes between 9 – 18 gallons

Mix with water to make 18 gallons of spray solution

Covers up to 5,400 sq ft

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Mix with water to cover up to 5,400 sq ft

[Half Gallon] Makes up to 21 gallons
Makes between 10 – 21 gallons
Mix with water to make 21 gallons of spray solution
Covers up to 6,300 sq ft
Mix with water to cover up to 6,300 sq ft

[Gallon] Makes up to 42 gallons
Makes between 21 – 42 gallons
Mix with water to make 42 gallons of spray solution
Covers up to 12,600 sq ft
Mix with water to cover up to 12,600 sq ft

New! Larger size, covers up to ['Z'] sq ft

With (the convenient) measuring cup, mixing MON 78307 (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy