

67760 -55

02/22/2001

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7503C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

67760-55

Date of Issuance:

FEB 22 2001

NOTICE OF PESTICIDE:

 x Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Glyphos Concentrate 27%
Weed & Grass Killer

Name and Address of Registrant (Include ZIP Code):

Cheminova, Inc.
Oak Hill Park
1700 Route 23, Suite 300
Wayne, NJ 07470

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, on his motion, 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 results of the one year storage stability (830.6317) and corrosion characteristics (830.6320) studies once they are 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.
2. Make the labeling changes listed below before you release the product for shipment.

a. Add the phrase "EPA Registration No. 67760-55".

b. Delete the following statement

OR

ACTIVE INGREDIENT

Glyphosate.....	27.00%
Other Ingredients	73.00%
Total	100.00%

c. Replace the deleted statement with

"Acid equivalent or Glyphosate content=19.98%..."

Signature of Approving Official:

Samuel J. Hornbaker

Date:

2/22/01

d. The statement "Reformulation or Repacking for sale is Prohibited" must be deleted or revised to read to similar to the following "This is an end-use product. Cheminova, Inc. does not intend and has not registered it for reformulation or repackaging."

3. 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 section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of labeling is enclosed for your records.

Please note for future submissions labeling requiring revisions will not be stamped "Acceptable". Submissions requiring label revisions will be rejected pending submission of corrected labeling.

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 the product constitutes acceptance of these conditions.

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

ACCEPTED
FEB 22 2001
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 67760-55

Glyfos®
Concentrate 27% Weed & Grass Killer

[Optional proposed text appears in brackets – the final label may include some or all of the optional text]

- [New/Now built-in pour spout]
- [Easy pour container] [Tougher formula] [50% stronger]
- [Kills the root]
- [No odor] [No root] [No weed] [No problem] [Water-based formula]
- [Makes over [16/33] [1/2] gallon[s] of spray solution] [values depend on container size]
- [Covers 300 sq ft per gallon of spray] [Covers over 10,000 sq. ft.] [1/2 gal container size]
- [Kills undesirable weeds and grasses, roots and all] [Kills down to the root]
- [Use in] [Apply with] BIG SHOT™ Multi-Purpose Sprayer [or other tank sprayers] [ORTHO® Dial 'n Sprayer®] [ORTHO Spray-Ette®] [or other hose-end sprayers]]
- [Use to prepare sites for large plantings, for planting flowerbeds, for planting fruit trees, ornamentals, vegetables, garden sites and to renovate lawns]
- [Kills weeds in flower beds, around fences, trees, shrubs, driveways, walkways and shrubs, patios, paths, sidewalk cracks, walkways]
- [Economical] [Mix 4 to 8 tablespoons (2 to 4 oz.) per gallon]
- [Concentrated for extra value] [Visible effects in 7 days]
- [For General Weed Control] [Kills weeds and grasses in 2 to 4 weeks] [roots and all.]
- [Completely kills the toughest weeds and grasses [listed on this label]]
- [Multipurpose Grass & Broadleaf Weed Control]
- [Can re-seed or sod lawns 7 days after treatment]
- [Lawns and ornamental gardens can be re-seeded or planted 1 day following treatment]
- [Use to refill Glyfos Ready-to-Use [specific product number] Weed and Grass Killer]

KEEP OUT OF REACH OF CHILDREN
CAUTION

ACTIVE INGREDIENT :

Glyphosate, (N-(phosphonomethyl) glycine), in the form of its isopropylamine salt.....	27.0%
OTHER INGREDIENTS.....	73.0%
TOTAL.....	100%

(OR)

ACTIVE INGREDIENT :

Glyphosate.....	27.0%
OTHER INGREDIENTS.....	73.0%
TOTAL.....	100%

READ PRECAUTIONS AND DIRECTIONS ON [BACK] [SIDE] [INSIDE] LABEL.

or

SEE {[BACK] [SIDE] [INSIDE] PANEL} [BOOKLET] FOR ADDITIONAL PRECAUTIONARY STATEMENTS

or

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION.

NET CONTENTS:
 32 fl oz (1 qt)(946 mL)
 67.6 fl oz (½ gal. 3.6 fl oz)(2.0 L)
 128 fl oz (1 gal)(3.7 L)

EPA Reg. No. 67760-

EPA Est. No

REFORMULATION OR REPACKAGING FOR SALE IS PROHIBITED

Manufactured for:
 Cheminova, Inc.
 Oak Hill Park
 1700 Route 23
 Wayne, New Jersey 07470

[Product of Denmark] [Product of USA]

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Keep children and pets away from treated areas until spray has dried. Avoid contamination of food. Do not contaminate water supplies.

FIRST AID

IF ON SKIN:

- Take off contaminated clothing. Rinse skin with plenty of water for 15–20 Minutes.

IF IN EYES:

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

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also call 1-800-228-5635, ext. 153, [or other designated medical emergency toll-free number] for emergency medical treatment information.

ENVIRONMENTAL HAZARDS

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

CONSUMER INFORMATION

This Product will treat approximately:

1,500 sq. ft. (approx. size of ¾ tennis court) [Pint] or

3,000 sq. ft. (approx. size of 1½ tennis courts) [Quart] or

5,100 sq. ft. (approx. size of 2½ tennis courts) [53 oz] or
 6,300 sq. ft. (approx. size of 3 tennis courts) [1/2 gal] or
 12,600 sq. ft. (approx. size of 6 tennis courts) [1 gal]

[Glyphos Concentrate 27% Weed and Grass Killer eliminates nearly all common weeds, grasses and unwanted vegetation.] [Illustrations]

This product can be used in driveways, brick and gravel walkways, curbs, along fences and foundations, near trees and shrubs, in flower beds, mulch beds, vegetable gardens, fruit trees, gravel, and other similar areas of the yard to get rid of undesirable vegetation. **Glyphos** can also be used for large jobs such as lawn renovation and vegetable and flower garden preparation. [Edging around lawns] [For lawn replacement/renovation] [For garden plot preparation] [Do not use on or around edible feed or food crops.]

[Important: This product is a non-selective herbicide that will kill all vegetation contacted. This herbicide kills unwanted plants by inhibiting the production of a substance found only in plants. It enters plants through the sprayed foliage and moves down to the roots. Avoid direct spray or drift onto desirable plants, lawn grasses, shrubs and trees. Protect desirable plants and vegetation with a piece of plastic or cardboard. If desirable plants are accidentally sprayed, wash plants with water immediately. Any **Glyphos** not absorbed by the plant is broken down into natural materials. This product has no soil activity and thus will not affect nearby untreated plants. Do not mow, cut or otherwise disturb treated vegetation for at least 7 days following application.

[[For product information and a complete list of weeds controlled] [For more information] [For questions or comments], call toll-free 1-800-xxx-yyyy or visit www.xxxxx.xxx]

WEEDS AND GRASSES CONTROLLED

[Annual weeds and grasses:

Annual ryegrass, annual bluegrass, barnyardgrass, beggarweed, black medic, blue medic, blue toadflax, brassbuttons, blue mustard, brome grass, bur clover, buttercup, cheeseweed, chickweed, clover, common groundsel, common lambsquarters, common plantain, common ragweed, crabgrass, creeping beggarweed, diffuse lovegrass, dog fennel, evening primrose, false dandelion, fall panicum, fennel, fiddleneck, field pennycress, field sandbur, filaree, Florida pusley, foxtail, garden spurge, goosegrass, green foxtail, hemp sesbania, henbit, horseweed/marestail, ironweed, knotweed, lambsquarters, little bitter cress, London rocket, maiden cane, mallow, mayweed, mouseear chickweed*, oxalis*, Pennsylvania smartweed, pennywort, pigweed, prickly lettuce, prostrate spurge, puncture vine, purslane, redroot pigweed, sandspur, shepherds spurge, smartweed, smooth cat's ear, smooth pigweed, sowthistle, spotted spurge, sprangletop, spurges, tansy mustard, tansy ragwort, teaweed, Texas panicum, tumble mustard, velvetleaf, wild geranium*, witchgrass, wild mustard, yellow nutgrass, yellow oxalis [and many other annual grasses and weeds] [controls many unwanted plants] [kills many types of weeds and grasses].

[Perennial weeds, grasses and brush:

Alder, artichoke thistle, bahiagrass, barnyardgrass, bentgrass, Bermudagrass, blackberries, bluegrass, broadleaf plantain, brownseed paspalum, buckhorn plantain, bull thistle, Canada thistle, cattail, ceanothus, centipedegrass, cherry, cocklebur, cogongrass, common mullein, common ragweed, coralbead, coyote brush, creeping bentgrass, creeping Charlie, creeping lig, lantana, curly dock, dallisgrass, dandelion, dewberry, dog fennel, elderberry, false dandelion, fescue species, field bindweed, guineagrass, hairy crabgrass, honeysuckle, horsenettle, horseradish, iceplant, Johnsongrass, Kentucky bluegrass, kikuyugrass, knapweed, knawel, kudzu, lantana, maiden cane, milkweed, mouseear chickweed*, multiflora rose, nimblewill, nutgrass (nutsedge), oak species, oldenlandia, orchardgrass, oxalis*, pampasgrass, pennywort, perennial

ryegrass, plantain, poison oak, poison ivy, poison hemlock, primrose, purple cudweed*, purple nutsedge, quackgrass, quaking aspen, ragweed, raspberry, red clover, smooth brome grass, sourdock, sowthistle, St. Augustine grass, sumac, tall fescue, tansy ragwort, thistle, Timothy, torpedograss, trumpet creeper, vasey grass, Virginia creeper, white clover, whitetop, wild barley, wild blackberry, wild carrot, wild morning-glory, wild oats, wild sweet potato, willow, yarrow, yellow nutgrass, yellow starthistle, zoysia [and many other perennial grasses, weeds, brush and sedges] [controls many unwanted weeds/plants] [kills many types of weeds and grasses and brush].

[*Annual or Perennial]

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. READ ENTIRE LABEL. USE ONLY ACCORDING TO LABEL DIRECTIONS OBSERVING ALL PRECAUTIONS.

Note: See the **CONSUMER INFORMATION** section of this label for important information on protecting plants you like.

[When to use] [For best results]

Apply when unwanted weeds and grasses are actively growing. Weeds usually show initial symptoms within 1 week after treatment and complete kill in about 1 to 2 weeks. Larger more established weeds may take up to 4 weeks for complete kill. **Glyfos** works best in warm sunny weather when daytime temperatures are above 60° F. For best results apply when weeds are small before seed heads have formed. If it rains within 24 hours after application, reapply. If hard-to-control weeds are not killed within 4 weeks, reapply **Glyfos**.

[How to use] [How to apply]:

This product is formulated for "spot" treatment of individual weeds and grasses or for treatment of large areas as instructed on this label (see specific site areas below). Apply with a plastic, aluminum or stainless steel tank-type sprayer. **Do not apply or store in galvanized or unlined steel sprayer, or through any irrigation system or sprinkling can.** Use a tank-type sprayer with a coarse spray nozzle for spot treatments. Use the ORTHO Dial 'n Spray or other hose-end sprayer to treat large areas such as for lawn renovation or to prepare sites for planting flower beds or vegetable gardens.

To apply this product use any of the following equipment:

- Plastic, aluminum or stainless steel tank sprayer
- ORTHO Dial 'n Spray
- ORTHO Spray-Ette
- A hose-end sprayer recommended for weed killers
- Hand-trigger pump sprayer

Apply spray to evenly wet the weed.

One gallon treats over 300 sq ft.

Determine the correct amount of **Glyfos** and water to add to sprayer from the directions below.

Cleaning application equipment:

When finished spraying rinse spray equipment thoroughly and flush all sprayer components with water 3 times after use. Spray rinse water on bare soil or gravel surface. Do not apply rinse water to treated weeds. Only after a very thorough cleaning, can the sprayer or spray equipment be used for application of other products.

[or]

Triple rinse sprayer and all sprayer parts with water. Spray rinse water on bare soil or gravel.

After thorough cleaning, sprayer can be used for other products.

[Directions if container has a measuring cap:]

Measuring Cap: To open, squeeze the sides at the points indicated while unscrewing. The measuring cap has [four] or [n] levels marked inside. Use the following table and the measuring cap to determine the amount of **Glyfos** to mix. Close cap tightly after use. No need to rinse cap.

Level 1 = 1 teaspoon (tsp)

Level 2 = 1 tablespoon (Tbs) = 3 tsp

Level 3 = 1 fl oz (2 Tbs)

Level 4 = 2 fl oz (4 Tbs)

Level n = n fl oz

[Note to reviewer: The measuring cap may have more than 4 levels or at different intervals than noted above. If necessary, additional levels will be mentioned with appropriate conversions]

APPLICATOR	MIXING INSTRUCTIONS		AREA TO TREAT
	General Weed Control Annuals	Tough Weed Control Perennials or Brush Lawn Renovation	
Standard Tank Sprayer	Fill cap to Level 4 one time (2 fl oz) [or equivalent depending on cap size]. Add to 1 gallon of water.	Fill cap to Level 4 two times (4 fl oz) [or equivalent depending on cap size]. Add to 1 gallon of water.	300 sq ft. (30 ft x 10 ft)
ORTHO Dial 'n Spray Hose-End sprayer	Fill cap to Level 4 one time (2 fl oz) [or equivalent depending on cap size] and add to sprayer jar. DO NOT ADD WATER. Set dial to 2 oz and spray.	Fill cap to Level 4 two times (4 fl oz) [or equivalent depending on cap size] and add to sprayer jar. DO NOT ADD WATER. Set dial to 4 oz and spray.	300 sq ft. (30 ft x 10 ft)
ORTHO Spray-Ette	Fill cap to Level 4 four times (8 oz) [or equivalent depending on cap size] and add to sprayer jar. Fill to the 4 gallon mark and spray.	Fill cap to Level 4 eight times (16 fl oz) [or equivalent depending on cap size] and add to sprayer jar. Fill to the 4 gallon mark and spray.	1200 sq ft. (30 ft x 40 ft)
Hand trigger sprayers	Fill cap to Level 1 two times (2 tsp) [or equivalent depending on cap size]. Add to 24 oz of water.	Fill cap to Level 1 four times (4 Tbs) [or equivalent depending on cap size]. Add to 24 oz of water.	Use for spot treatments or apply to single weeds

[Directions for use when measuring cap packaging is not used]

To determine the amount of **Glyfos** you need to mix refer to the following table. Close cap securely after use. No need to rinse the cap.

1 teaspoon (tsp)

1 Tablespoon (Tbs) = 3 tsp

1 fl oz (2 Tbs)

2 fl oz (4 Tbs)

APPLICATOR	MIXING INSTRUCTIONS		AREA TO TREAT
	General Weed Control Annuals	Tough Weed Control Perennials or Brush Lawn Renovation	
Standard Tank Sprayer	Use 2 oz (4 Tbs) of Glyphos in 1 gallon of water	Use 4 oz (8 tbs) of Glyphos in 1 gallon of water	300 sq ft (30 feet by 10 feet)
ORTHO Dial 'n Spray Hose-end sprayer	Mix 2 oz (4 Tbs) of Glyphos into sprayer jar. DO NOT ADD WATER. Set dial to 2 oz and spray.	Mix 4 oz (8 tbs) of Glyphos into sprayer jar. DO NOT ADD WATER. Set dial to 4 oz and spray.	300 sq ft (30 ft x 10 ft)
ORTHO Spray-Ette	Add 8 oz of Glyphos into sprayer jar. Fill to the 4 gallon mark and spray.	Add 16 oz of Glyphos into sprayer jar. Fill to the 4 gallon mark and spray.	1200 sq ft (30 feet by 40 feet)
Hand trigger sprayers	Mix 2 tsp of Glyphos in 24 ounces of water.	Mix 4 tsp of Glyphos in 24 ounces of water.	Use for spot treatments or on single weeds

Use this product to refill **Glyphos Ready to Use [specific product number] Weed and Grass Killer**.

[Where to use] [Use sites] [Use situations]

General weed control: Use near fences, in paths, patios, sidewalks, curbs and driveways, around ornamental trees, shrubs, flower beds and plantings, around buildings and paths. [on wooded lots] [in recreational areas] [areas where tough weeds are invading your yard]. Controls weeds in brick and gravel walks. Use for trimming and edging landscapes. NOT recommended for spot weed treatment in lawns, since **Glyphos** kills all green plants, including lawn grasses. If replacing a lawn or parts of a lawn, see **For lawn renovation/replacement** recommendations on this label.

Spot treatments: Direct spray on undesirable weeds and grasses in and around flower beds, ornamental trees, fruit and nut trees, grapevines, shrubs, fences, driveways and walkways. Spray when air is calm. Prevent **Glyphos** spray from contacting the leaves, green stems, or exposed roots of plants you like. Use a cardboard or plastic shield to protect desirable plants from spray or drift. **Glyphos** will not move in or on the soil to untreated plants. If **Glyphos** is used to control weeds around fruit or nut trees or grapevines, wait **21 days** before eating the fruit or nuts.

Landscapes: For use in preparing areas for planting of ornamentals, trees, shrubs, desert landscapes, rock gardens, flower beds or similar plantings. Treated areas can be replanted **1 day** after treatment.

Wildlife areas site preparation: Use **Glyphos** to prepare areas for planting wildlife food plots. Introduced or undesirable plants can be controlled with **Glyphos** to allow for planting or recovery of native plant species. Spot treatments may be directed to selectively remove unwanted plants. Avoid spray drift to desirable plants.

For lawn renovation/replacement: Use **Glyphos** to remove the undesired lawn and kill weeds and grasses. For best results, apply in spring or fall, when daytime temperatures are at least 60° F. If the lawn is dry, water every other day for 7 days before applying **Glyphos**. Do not mow for 7 days before or after treatment. Use 4 fl. oz. per gallon of water for each 300 sq. ft. of area to be treated. After 7 days, prepare the soil for planting by raking or rototilling the lawn. Rake up

and remove loosened thatch or debris. Mix in starter fertilizer and soil amendments, if needed. Level the soil. Apply seed according to directions on seed package, or install sod. Grass seed must have good contact with soil to germinate and grow. Keep area moist for 2 weeks, to establish new lawn, then water as needed.

To control brush: Apply to green and actively growing brush. For plants taller than 5 feet, cut them back and spray the regrowth. Fall applications to brush may delay control to the following season. A second application may be required on hard-to-control species such as blackberry, kudzu, or poison oak.

Stump treatment: To prevent regrowth from stumps, apply Glyphos when vegetation is actively growing and immediately after being cut down.

- Cut stump close to the soil surface.
- Make 4-5 nail holes in the stump.
- Flood the stump with undiluted product.

This treatment will control or suppress many types of woody brush and trees, such as alder, bluegum eucalyptus, madrone, oak, giant reed, saltcedar, sweetgum, and tan oak.

Vines treatment: If vines are growing up poles, fences or tree trunks with mature bark, cut vines to a height of 3 to 4 ft and spray vines thoroughly. If vines are climbing shrubs, or tree trunks with green bark, cut vines at base and treat as directed for stumps or spray its regrowth. If spraying regrowth, shield shrubs and tree trunks from spray drift with a sheet of cardboard or plastic.

[When to replant] [Replanting and Re-seeding After Application]

Ornamentals and Flowers: Re-seed or replant the following day.

Vegetables: Wait 3 days after spraying, before seeding or transplanting the plants listed below. For tomato transplants or vegetables not on the below list, wait 30 days after spraying before planting into treated soil.

beans	Crenshaw melon	Mango melon	radish
beet greens	cucumber	melons	rhubarb
broccoli	eggplant	muskmelon	rutabaga
Brussels sprouts	endive	mustard greens	spinach
cabbage	garlic	okra	summer squash
cantaloupe	honeydew melon	onion	sweet potato
carrot	honey ball melon	rape greens	tomatillo
cauliflower	horseradish	parsley	tomato*
casaba melon	Jerusalem artichoke	parsnip	turnip
celery	kale	peas	watercress
chard (Swiss)	kohlrabi	pepper	watermelon
chicory	leeks	Persian melon	winter squash
collards	lentils	potato	yams
corn	lettuce	pumpkin	

*Note: Wait 3 days before planting tomatoes from seed and 30 days for rooted tomato transplants. Do not spray vegetables directly.

Small fruits and berries: blackberry, black raspberry, blueberry, boysenberry, currant, dewberry, elderberry, gooseberry, huckleberry, loganberry, olallieberry, red raspberry and strawberry, may be planted by seed, rooted cutting, or transplant **7 days** after applying **Glyphos**. For unlisted small fruits and berries, wait **30 days** after spraying and before planting. Do not spray fruits and berries directly.

Fruit and nut trees, caneberries or grapevines: If **Glyfos** is used to control weeds around fruit or nut trees, caneberries or grapevines, allow **21 days** before eating the fruits or nuts. Do not treat fruits and nuts directly.

STORAGE AND DISPOSAL

Storage: Use and store this product only in its original container. Store product in a secure storage area away from sources of heat or open flame. Protect product from freezing.

Disposal: Do not reuse container. To dispose of unused product and container, securely wrap original container in several layers of newspaper and discard in trash.

Spill or leak: In case of spill or leak, soak up with paper towels and discard in trash.

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on field uses and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Desirable plant injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Cheminova. All such risks shall be assumed by the user.

Cheminova warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the Directions for Use set forth in the label, subject to the risks referred to above.

Any damage arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

Cheminova makes no other express or implied warranty including any other express or implied warranty of FITNESS or MERCHANTABILITY.

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