

67760-49

2-22-2001

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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:

67760-49

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 41%
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 data 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. 67760-49".
 - b. Delete the following statement

OR

ACTIVE INGREDIENT

Glyphosate.....41.00%
Other Ingredients59.04%
Total 100.00%

- c. Replace the deleted statement with

"Acid equivalent or Glyphosate content=30.34%..."

Signature of Approving Official:

Date:

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d. OTHER INGREDIENTS must be corrected to 59% instead of 73%.

e. 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.

VLCW

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Glyfos®

Concentrate 41% Weed & Grass Killer

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

[Ultra formula] [Concentrated for extra value] [Concentrated and economical]

[Super concentrate]

[Built in measuring cap and pour spout]

[Now/New measuring cap and pour spout included]

[Easy Measure] [Easy Pour.]

[Water-based formulation]

[Low odor] [No roots] [No weeds] [No problem]

[Makes up to [21] [35] [85] gallons of spray solution [varies with container size]

[Covers up to [6,300] [10,500] [25,500] sq ft [varies with container size]

[One gallon of spray solution covers 300 sq ft] [75 sq ft per qt] [55 sq ft per 24 oz]

[Kills weeds and grasses] [in 2 to 4 weeks] [right down to the root]

[See results in 7 days]

[Kills [even] the [hardest] [toughest] of weeds and grasses]

[Multi-purpose Grass & Weed Killer]

[A general purpose broadleaf weed & grass killer]

[Kills undesirable weeds and grasses]

[Kills the weed above and the root below]

[Kills weeds & grasses to the root]

[Kills weeds & grasses down to the root]

[Kills unwanted vegetation right down to the root]

[Apply using] [For application with] [Standard Tank Sprayer; BIG SHOT® Multi-purpose sprayer; ORTHO® Dial 'n Spray®; ORTHO SPRAY-ETTE®; or other ORTHO hose-end sprayer]

[Use for site preparation for large plantings, such as flower beds, fruit trees, ornamentals, vegetables, garden sites and to renovate or replace lawns]

[Kills many of the weeds you don't want] [Rid weeds] [Get rid of weeds] in flowerbeds, along fences, around trees, shrubs, driveways, walkways, in and around fences, patios, paths, sidewalks and curb cracks, walkways and trails]

Use to refill **Glyfos Ready-to-Use [specific product number] Weed and Grass Killer**

[Reseed or sod new lawns 7 days following treatment]

[Ornamentals can be planted or transplanted the day following treatment]

KEEP OUT OF REACH OF CHILDREN

CAUTION

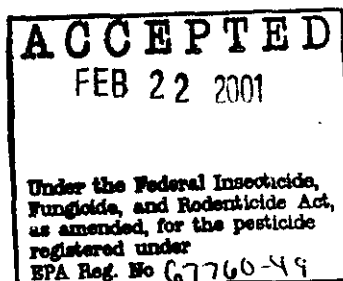
ACTIVE INGREDIENT :

Glyphosate, (N-(phosphonomethyl) glycine), in the form of its isopropylamine salt.....41.0%

OTHER INGREDIENTS.....73.0%

TOTAL 100.0%

(OR)



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ACTIVE INGREDIENT :

Glyphosate.....41.0%

OTHER INGREDIENTS.....73.0%

TOTAL.....100.0%

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 oz (1 quart)(946 mL)

53.7 fl oz (0.42 gallon)(1.5 L)

128 fl oz (1 gallon)(3.7L)

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.

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- 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 up to:

6,300 sq ft (approx. size of 3 tennis courts) – for quart size

10,500 sq ft (approx. size of 5 tennis courts) – for 53 fl oz size

25,500 sq ft (approx. size of 12 tennis courts) – for 1 gallon size

Mixing directions: For best results use 2½ fl oz (5 Tbs) per gallon of water. One gallon of water will treat approximately 300 sq ft.

[Glyfos Concentrate 41% Weed and Grass Killer eliminates nearly all common weeds, grasses and unwanted vegetation.] [Illustrations]

[Add water and use along fences, in driveways, sidewalks, brick and gravel walkways, next to trees and shrubs, and around buildings to control weeds and unwanted vegetation. Use **Glyfos** for edging landscapes. **Glyfos** is suited for lawn renovation or to prepare large sites for planting of flower beds, vegetable gardens or wildlife food plots. **Glyfos** can also be used for large jobs such as lawn renovation and vegetable and flower garden preparation.

[For 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 **Glyfos** 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.]

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WEEDS AND GRASSES CONTROLLED

[Annual weeds and grasses:

Annual ryegrass, annual bluegrass, barnyardgrass, beggarweed, black medic, blue medic, blue toadflax, brassbuttons, blue mustard, bromegrass, 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, shepherdspurse, 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 most types of weeds and grasses].

[Perennial weeds, grasses and brush [Tough weed control]:

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 lantana, curly dock, dallisgrass, dandelion, dewberry, dog fennel, elderberry, false dandelion, fescue species, field bindweed, guineagrass, hairy crabgrass, honeysuckle, horsetail, 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 bromegrass, sourdock, sowthistle, St. Augustinegrass, sumac, tall fescue, tansy ragwort, thistle, Timothy, torpedograss, trumpetcreeper, vaseygrass, 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 most types of weeds and grasses].

*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 the entire panel before using this product.] [Use only according to label instructions observing all precautions].

Note: See the **CONSUMER INFORMATION** section of this label for important information on

protecting plants you like.

[When to use] [When to apply]:

Apply to actively growing weeds, preferably before the seed heads form. Completely spray the foliage of the weeds and grasses you want to kill until thoroughly wet. It's best to apply on a warm sunny day when daytime temperatures are above 60° F. Weed control is accelerated by warm sunny weather. Apply when the wind is calm. Reapply if it rains within 24 hours of application. Hard-to-control weeds may require a second application if not completely dead in 4 weeks.

[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 with 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.

Apply to evenly and thoroughly wet weeds and grasses.

Apply **Glyfos** using 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

Cleaning Application Equipment:

To clean sprayer after use, 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. There are [four] or [n] levels marked inside the measuring cap. 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

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	General Weed Control Annuals	Tough Weed Control Perennials or Brush or Lawn Renovation	
Standard Tank Sprayer	Fill cap to Level 2 three times (3 Tbs) [or equivalent depending on cap size]. Add this to 1 gallon of water.	Fill cap to Level 2 five times (5 Tbs) [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 2 three times (3 Tbs) [or equivalent depending on cap size] and add to sprayer jar. DO NOT ADD WATER. Set dial to 1½ oz and spray.	Fill cap to Level 2 five times (5 Tbs) [or equivalent depending on cap size] and add to sprayer jar. DO NOT ADD WATER. Set dial to 2½ oz and spray.	300 sq ft (30 ft x 10 ft)
ORTHO Spray-Ette	Fill cap to Level 4 three times (6 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 five times (10 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 this to 24 oz of water.	Fill cap to Level 2 one time (1 Tbs). Add this to 24 oz of water.	Use for spot treatments or application to single weeds.

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

Use the following table to determine the amount of Glyfos to mix with water. Close cap tightly after use. No need to rinse 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 and seedling weeds	Tough weed control perennials or brush or lawn renovation	
Tank Sprayer	Use 1½ oz (3 Tbs) Glyfos in 1 gallon of water.	Use 2½ oz (5 Tbs) Glyfos in 1 gallon of water.	300 sq ft (30 ft x 10 ft) or use for spot treatments
ORTHO Dial 'n Spray Hose-End	Add 1½ oz (3 Tbs) Glyfos to sprayer jar. DO NOT ADD WATER.	Add 2½ oz (5 Tbs) Glyfos to sprayer jar. DO NOT ADD WATER.	300 sq ft (30 ft x 10 ft)

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sprayer	Set dial to 1½ oz and spray.	Set dial to 2½ oz and spray.	
ORTHO Spray-Ette	Add 6 oz Glyphos to sprayer jar. Fill to the 4 gallon mark and spray.	Add 10 oz Glyphos to sprayer jar. Fill to the 4 gallon mark and spray.	1200 sq ft (30 ft x 40 ft)
Hand trigger sprayers 24 oz capacity	Use 2 tsp in 24 oz of water.	Use 1 Tbs in 24 oz of water.	Use for spot treatments or apply to single weeds

This product can be used to refill **Glyphos Ready-To-Use [specific product number] Weed & Grass Killer**, following mixing directions on the label. Use the mixed solution within 2 weeks.

[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. 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 planted **1 day** after treatment.

Wildlife areas site preparation: Use **Glyphos** to prepare areas for planting wildlife food plots. Exotic 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 kill existing vegetation (weeds and grasses and the old lawn).

Apply in spring or fall, when daytime temperatures are at least 60° F for best results.

If the lawn is dry, water lawn every other day for 7 days before applying **Glyphos**.

Do not mow for 7 days before or after treatment.

Use 2½ fl oz per gallon of water for each 300 sq ft of area to treat.

Wait 7 days after application to prepare the soil by raking, leveling or rototilling.

Rake up and remove loosened thatch or debris.

Work in starter fertilizer and soil amendments, if needed. Level the soil.

Sow new seed according to directions on seed package, or install sod. Grass seed must have good contact with soil to germinate and grow. Use temporary mulch such as straw to conserve moisture.

Keep area moist to establish new lawn. Water as needed.

To Control Brush or Vines: Apply to green and actively growing brush or vines. For plants taller than 5 feet, cut them back and spray the regrowth. Fall applications to brush may delay

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control to the following season. A second application may be required on hard-to-control species such as blackberry, kudzu, or poison oak.

To kill vines growing up a pole, fence or mature tree trunk, cut vine to a height of 3 to 4 feet and spray thoroughly covering remaining vine. If vine is climbing a shrub or immature (green) tree trunk, to avoid damage to these plants, cut vine at base and treat as directed for stumps or spray regrowth. If spraying regrowth shield shrub and green trunk from drift with a sheet of plastic or cardboard.

Stump Treatment: Stumps can be treated to prevent regrowth. Apply **Glyphos** when vegetation is actively growing or immediately (within 5 minutes) after being cut down.

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

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

[When to replant][Re-Planting instructions]
[Reseeding and replanting in treated areas]

Ornamentals and Flowers: Re-seed or replant **1 day** following application.

Vegetables: Wait **3 days** after spraying, before seeding or transplanting the plants listed below:

beans	Crenshaw melon	mangos 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	onions	sweet potato
carrot	honey ball melon	rape greens	tomatillo
cauliflower	horseradish	parsley	tomato*
casaba melon	jerusalem artichoke	parsnips	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. For tomato transplants or vegetables not listed, wait **30 days** after spraying before planting into treated soil.

Small Fruits and Berries: blackberry, black raspberry, blueberry, boysenberry, currant, dewberry, elderberry, gooseberry, huckleberry, loganberry, olallieberry, red raspberry and strawberry may be planting by seed, rooted cutting, or transplant **7 days** after spraying **Glyphos**. Wait **30 days** after spraying and before planting other small fruits and berries.

Fruit and Nut Trees, Caneberries and Grapevines: Allow **21 days** before eating the fruits or nuts when using **Glyphos** to control weeds around fruit or nut trees, caneberries and grapevines.

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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®ORTHO, ORTHO Dial' N Spray and ORTHO Spray-Ette are registered trademarks of Monsanto Company.