

RESTRICTED USE PESTICIDE

due to oncogenicity. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

**TOPHAND® GRASS HERBICIDE
BY MONSANTO**

FOR USE ONLY WITH TOPHAND® BROADLEAF HERBICIDE

Carefully follow detailed instructions in label booklet.

ACCEPTED
FEB 14 1995
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **524-483**

PM 25
524-483
Page 1 of 21

Read the entire label before using this product. Use only according to label instructions. Read "LIMIT OF WARRANTY AND LIABILITY," which appears in label booklet, before buying or using. If terms are not acceptable, return at once unopened. The contents of this container may not be REFORMULATED nor, except in accordance with the Monsanto Repackaging Agreement, REPACKAGED.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

WARNING! AVISO!

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY.
HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.
MAY CAUSE ALLERGIC SKIN REACTION.

Avoid contact with skin, eyes, or clothing.
Wash thoroughly with soap and water after handling.

FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention. **IF ON SKIN**, immediately flush with plenty of water while removing contaminated clothing. As soon as soap is available, wash skin thoroughly with soap and water. Wash clothing before reuse. Sensitized persons should avoid further contact and reuse of contaminated clothing. Get medical attention. **IF SWALLOWED**, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Get medical attention. **NEVER PUE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

Personal Protective Equipment

Applicators and other handlers (other than mixers and loaders) must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear.

Mixers and loaders must wear: long-sleeved shirt and long pants, waterproof gloves, chemical resistant footwear, plus socks and protective eyewear. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

In case of an emergency involving this product,
Call Collect, day or night, (314) 694-4000.

Environmental Hazards

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the ground water is shallow, may result in ground water contamination.

Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

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

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Triple rinse emptied bulk container. Then offer for recycling or reconditioning, or dispose of in a manner approved by state and local authorities.

(See label booklet for Complete Directions for Use.)

ACTIVE INGREDIENT:

*Acetochlor.....	81.15%
INERT INGREDIENTS.....	18.85%
	100.00%

*Contains 899 grams/litre or 7.5 pounds/gallon of 2-chloro-N-ethoxymethyl-N-(2-ethyl-6-methylphenyl)acetamide.

EPA Reg. No. 524-483

®Tophand is a registered trademark of Monsanto Company

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TOPHAND® BROADLEAF HERBICIDE

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IF SWALLOWED, remove visible particles from mouth and rinse mouth thoroughly with water. Swallow water to dilute. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, shoes plus socks and protective eyewear.

Discard clothing and other materials that have been heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

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- * Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

In case of emergency involving this product,
Call Collect, day or night, (3 4) 694-4000.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(See label booklet for Complete Directions for Use.)

ACTIVE INGREDIENT:

*Methyl 5[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonylamino]sulfonyl]-3-chloro-1-methyl-1-H-pyrazole-4-carboxylate..... 15.0%
INERT INGREDIENTS:..... 85.0%

100.0%

*Manufactured by Nissan Chemical Industries, Ltd.

Product is protected by U.S. Patent No. 4,668,277.

EPA Reg. No. 524-466

•TopHand is a registered trademark of Monsanto Company.

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BY MONSANTO

The TopHand® herbicide program provides complete spectrum weed control in field corn. This program is comprised of two separate herbicide components:

TopHand Broadleaf Herbicide With Safener
plus
TopHand Grass Herbicide Without Safener

The combined strength of these two products provides preemergence control of all major annual weeds located in the corn producing region of this country. TopHand Broadleaf is an outstanding herbicide that offers effective control of tough annual broadleaf weeds while TopHand Grass delivers consistent control of annual grasses and small seeded broadleaf weeds. These two products must be used together to deliver optimum crop safety.

In case of an emergency involving this product,
Call Collect, day or night (314) 694-4000.

Complete Directions for Use

®TopHand is a registered trademark of Monsanto Company.

EPA Reg. No. 524-XXX (TopHand Grass)
EPA Reg. No. 524-466 (TopHand Broadleaf)

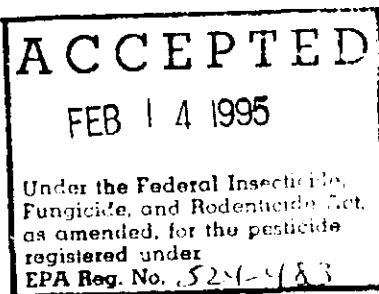
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REFORMULATION IS PROHIBITED.



LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

For more product information, call toll-free 1 (800) 332-3111.

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TopHand® Broadleaf Herbicide

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Environmental Hazards

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Storage and Disposal

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DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

ACTIVE INGREDIENT:

* Methyl 5-[[[4,6-dimethoxy-2-pyrimidinyl) amino] carbonylamino]sulfonyl]-3-chloro-1-methyl-1-H-pyrazole-4-carboxylate	15.0%
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INERT INGREDIENTS:	85.0%
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	100.0%
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* Manufactured by Nissan Chemical Industries, Ltd.

Product is protected by U.S. Patent No. 4,668,277.

TopHand® Grass Herbicide

FOR USE ONLY WITH TOPHAND® BROADLEAF HERBICIDE

RESTRICTED USE PESTICIDE

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MAY CAUSE ALLERGIC SKIN REACTION.**

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Wash thoroughly with soap and water after handling.

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IF ON SKIN, immediately flush with plenty of water while removing contaminated clothing. As soon as soap is available, wash skin thoroughly with soap and water. Wash clothing before reuse. Sensitized person should avoid further contact and reuse of contaminated clothing. Get medical attention.

IF SWALLOWED, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Get medical attention. **NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

Environmental Hazards

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the ground water is shallow, may result in ground water contamination.

Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

(See the individual container label for disposal information.)

ACTIVE INGREDIENT:

*Acetochlor.....81.15%

INERT INGREDIENTS..... 18.85%

100.0%

*Contains 889 grams/litre or 7.5 pounds/gallon of 2-chloro-N-ethoxymethyl-N-(2-ethyl-6-methylphenyl)acetamide.

U.S. Patent No. 4,256,481. Other patents pending. No license is granted under any non-U.S. patents.

**TopHand®
GRASS AND BROADLEAF HERBICIDE**

GENERAL INFORMATION

TopHand® provides preemergence control of all major annual weeds located in the corn producing region of this country. TopHand Broadleaf is an outstanding herbicide that offers effective control of tough annual broadleaf weeds while TopHand Grass delivers consistent control of annual grasses and small seeded broadleaf weeds. These two products must be used together to deliver optimum crop safety.

Personal Protective Equipment

Applicators and other handlers (other than mixers and loaders) must wear: long-sleeved shirt and long pants, water proof gloves, shoes plus socks and protective eyewear.

Mixers and loaders must wear: long-sleeved shirt and long pants, water proof gloves, chemical resistant footwaer plus socks and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

User should:

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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, are: coveralls, waterproof gloves, shoes plus socks and protective eyewear.

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SOIL TEXTURE RECOMMENDATIONS

Applicators should evaluate soil conditions carefully to assure that they choose the correct label rate.

The recommended use rates of this product and the other herbicides labeled for use in tank mixtures with this product vary with soil texture. Unless soil texture is specifically named, rate tables throughout this label refer to only three soil textural groups: coarse, medium and fine. Refer to the complete listing of soil textures listed below.

For use on medium to fine texture soils greater than 1 percent organic matter and on coarse texture soils greater than 3 percent organic matter. DO NOT apply this product on coarse soils which have less than 3 percent organic matter. Refer to the "Use Instructions and Restrictions" section of this label for additional restrictions on coarse textured soils.

The following is a complete list of the soil texture groups:

<u>Soil Texture Group</u>	<u>Soil Texture</u>
Coarse	sand, loamy sand, sandy loam
Medium	loam, silt loam, silt, sandy clay loam
Fine	silty clay loam, clay loam, sandy clay, silty clay, clay

USE INSTRUCTIONS AND RESTRICTIONS

Apply TopHand® to fields with optimum fertility to ensure proper corn growth and development.

Crop growth reduction may occur under abnormally wet or saturated soil conditions. Avoid application to untilled, poorly drained areas. The following applications may aggravate crop response under prolonged saturated soil moisture conditions:

- * Counter™ insecticide applied in furrow.
- * Applications of this product more than 1 week ahead of planting.

Some hybrids may be more sensitive to herbicides than others. Your seed agronomist can help you avoid using hybrids with known sensitivity to sulfonyleurea herbicides.

Unless Pioneer IR corn hybrids are planted, DO NOT apply this product to coarse textured soils (sand, loamy sand, sandy loam) which have less than two (2) percent organic matter.

TopHand® Broadleaf herbicide may be applied only one time with a total application not to exceed 10 ounces of product by weight (0.094 pounds active ingredient) per acre per use season. Following a soil application of this product (0.065 to 0.094 pounds of active ingredient per acre), a single postemergence application of Permit® herbicide may be made at recommended rates (0.032 to 0.063 pounds active ingredient per acre). In this sequential program, the combined maximum rate per season should not exceed 0.157 pounds active ingredient per acre. If this application sequence is used, it is recommended to apply Permit herbicide in combination with another herbicide which has a different mode of action. Refer to the Permit herbicide label for use instructions.

TopHand® Grass herbicide demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the groundwater is shallow, may result in groundwater contamination. Do not apply to the following soils if ground water depth is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter.

TopHand® Grass herbicide may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain a minimum of 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Do not flood irrigate to apply or incorporate this product.

Product must be used in a manner which will prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Do not apply this product through any type of irrigation system.

Disposal of excess pesticide, spray mixtures or rinsate should be according to label use instructions or according to the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA regional office.

Do not apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas. To prevent off-site movement due to runoff or wind erosion:

Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Do not apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow covered soils.

Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

Do not apply this product using aerial application equipment.

Do not apply when wind conditions favor drift to non-target sites. To minimize spray drift to non-target areas:

Use low pressure application equipment capable of producing a large droplet spray. Do not use nozzles that produce a fine droplet spray. Minimize drift by using sufficient spray volume to ensure adequate coverage with large droplet size sprays.

Keep ground driven spray boom as low as possible above the target surface.

Make application when the wind velocity favors on-target product deposition (approximately 3-10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid application when gusts approach 15 mph.

Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas. Avoid spraying during conditions of low humidity and/or high temperatures. Do not apply during inversion conditions.

Use of this product not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

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APPLICATION INFORMATION

APPLICATION SYSTEMS

Ground Broadcast Treatment--Apply this product in 10 or more gallons of solution per acre using broadcast boom equipment. The carrier may be either water or sprayable fluid fertilizer. Do not apply during periods of gusty winds, when winds are in excess of 15 mph or when other conditions favoring drift exist.

Application with dry bulk fertilizer--The herbicide-fertilizer impregnation process (In-Plant and On-Board systems) must be completed only by commercial fertilizer or chemical dealerships properly equipped for this procedure. Contact Monsanto Company for additional information regarding recommended equipment and methods for herbicide-fertilizer impregnation applications.

APPLICATION TIMING AND METHODS

NOTE: Only one treatment of this product may be applied to a labeled crop.

Early Preplant Surface--This product and some labeled tank mixtures of this product may be applied in conservation tillage systems before weeds emerge and up to 45 days before planting field corn or silage corn. Split applications can be made 30 to 45 days prior to planting with 60 percent of the recommended broadcast rate applied initially and the remaining 40 percent applied at planting. Applications made less than 30 days prior to planting can be made either as a split or as a single application. If weeds are present at the time of application, apply this product in tank mixture with an appropriate contact herbicide. Observe directions for use, precautions and restrictions on the label of the contact herbicide. During the planting operation, be careful not to move untreated soil to the surface or move treated soil out of the row, as weed control may be reduced.

Preplant Incorporation--This product and many of the labeled tank mixtures may be mixed into the soil using shallow incorporation equipment any time within 14 days prior to planting. Apply the recommended treatment rate to the soil surface as a broadcast application. Either existing soil moisture or subsequent precipitation or irrigation is required to bring incorporated herbicide treatments into contact with germinating weed seedlings. If weeds emerge after treatment, rotary hoe or shallowly cultivate immediately to improve performance.

1-Pass Incorporation (Surface Blend™): Shallowly incorporate (Surface Blend) the treatment into the upper 1 to 2 inches of the soil. Equipment should be operated at manufacturer's designed speed for incorporation to ensure adequate mixing and distribution of the herbicide treatment in the soil. Equipment design including any drag attachments must be adequate to avoid soil ridging which may result in streaked or reduced weed control. Soil conditions, including moisture content and crop residue levels, must be suitable to allow thorough and uniform mixing with the equipment used for 1-pass incorporation.

Contact Monsanto Company for additional information regarding recommended equipment and methods for Surface Blend Application.

2-Pass Incorporation: When 2-pass incorporation is used, shallowly incorporate the herbicide treatment into the upper 1 to 2 inches of the soil with equipment set to work the soil NO DEEPER THAN 4 INCHES. The second pass must be made at an angle to and no deeper than the first pass to ensure proper distribution of the herbicide treatment in the soil.

Preemergence Surface Application--This product may be applied to the soil surface after planting and prior to either crop or weed emergence. Apply within 5 days of last preplant tillage. If weeds emerge after treatment, or if treatment is applied more than 5 days after last preplant tillage, rotary hoe or shallowly cultivate immediately to improve performance. Precipitation or overhead sprinkler irrigation is required after application to move the herbicide treatment into the weed germination zone. The amount of precipitation or overhead sprinkler irrigation required depends on existing soil mixture, soil type and percent organic matter content, but 1/4 to 3/4 inch is normally adequate. Performance is improved when moisture is received within 7 days after application and prior to weed emergence. High intensity or excessive rainfall or excessive irrigation after application may reduce control.

Cultivation Information--Delay cultivation after application for as long as possible unless weeds or grasses emerge. Shallowly cultivate or rotary hoe immediately if weeds or grasses emerge. If cultivation is necessary because of soil crusting or compaction, set equipment shallow and minimize lateral soil movement to avoid dilution or displacement of the herbicide treatment. If a band application is used and weeds have emerged in the treated band, set cultivator to throw soil into the row covering the band.

Application Rates

TopHand® Broadleaf Herbicide Use Rate:

- = 7 to 10 ounces of product by weight per acre
- = 0.065 to 0.094 pounds of active ingredient per acre

* **Commercial recommendation:**
 [8 ounces (1/3 pound) of product per acre]

BROADCAST RATE PER ACRE **

	Less than 3% organic matter	3% or more organic matter***	
SOIL TEXTURAL GROUP*	TopHand® + TopHand® Grass Broadleaf (Pints) (Ounces by wt.)	TopHand® + TopHand® Grass Broadleaf (Pints) (Ounces by wt.)	
Coarse****	DO NOT USE	1.75	8
Medium	1.75 to 2.00 8	1.75 to 2.00	8
Fine	1.75 to 2.00 8	2.00 to 2.50	8

* Refer to the "SOIL TEXTURE" section of this label to determine the corresponding textural group for the soil to be treated.

** Use the higher rate in the recommended range in areas of heavy weed infestation.

*** On soils with 6 to 10% organic matter use 2.3 to 3.2 pints/acre.
 On soils with more than 10% organic matter use 3.2 pints/acre.

**** Refer to the "USE INSTRUCTIONS AND RESTRICTIONS" section of this label for restrictions.

WEEDS CONTROLLED

When applied as directed under conditions described, this product and tank mixtures of this product will control or reduce competition from the weeds listed below.

ANNUAL GRASSES

TopHand® Grass +
TopHand® Broadleaf

C = Control R = Reduced Competition

Barnyardgrass	C
Crabgrass	C
Crowfootgrass	C
Cupgrass, prairie	C
Cupgrass, woolly ¹	C
Foxtail: giant, green, robust purple, robust white, yellow	C
Goosegrass	C
Johnsongrass, seedling	R
Millet, foxtail	R
Millet, proso ²	R
Oat, wild	R
Panicum: browntop, fall	C
Panicum, Texas	R
Rice, red	C
Sandbur	R
Shattercane, wildcane ²	R
Signalgrass, broadleaf	C
Sprangletop, red	C
Wheat, volunteer	R
Witchgrass	C

¹Use 2.8 to 3.2 pints per acre of TopHand Grass herbicide applied alone or in tank-mix combinations.

²Use 2.8 to 3.2 pints per acre of TopHand Grass herbicide to reduce competition from this weed.

ANNUAL BROADLEAVES

TopHand® Grass +
TopHand® Broadleaf

Carpetweed	C
Cocklebur	C
Galinsoga	C
Henbit	C
Jimsonweed	C
Kochia	C
Lambsquarters	C
Morningglory ¹ : tall, pitted, ivyleaf entireleaf, smallflower	R
Mustard	C
Nightshade: black, hairy	C
Pigweed, Carelessweed	C
Purslane	C
Ragweed, common	C
Ragweed, giant ¹	R
Smartweed	C
Sunflower, common	C
Velvetleaf, Buttonweed	C
Waterhemp, tall	C
<hr/>	
Nutsedge, yellow	C

¹A tank mixture of atrazine 4L (1.0 to 1.5 quarts/acre) is required for the control of this weed.

TopHand® may be combined with applications of Roundup® herbicide for control of emerged weeds prior to corn emergence. Refer to the Roundup label for a list of weeds controlled.

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MIXING, SPRAYING AND HANDLING INSTRUCTIONS

Use sufficient volume of water based spray carrier to provide uniform spray distribution. Choose nozzles which provide optimum spray distribution and coverage at the appropriate pressure (psi). Use only ground application equipment. Thoroughly clean and calibrate equipment. Avoid streaking, skips, or overlaps during applications. Do not apply by air. Do not apply this product through any type of irrigation system.

Before mixing in the spray tank, it is recommended that compatibility be tested by mixing all components in a small container in proportionate quantities. This compatibility test is particularly important when using a sprayable fluid fertilizer carrier.

For tank mixtures, add individual formulations to the spray tank in the following sequence: carrier, dry flowables, liquid flowables, emulsifiable concentrates, drift control additive, water soluble liquids followed by nonionic surfactant.

Fill the spray tank to about one-third of the desired volume. Add the recommended amounts of herbicides and additives. Complete the filling process while maintaining agitation. Remove the hose from the mixing tank immediately after filling to avoid siphoning back into the carrier source.

Spray solutions should be applied within 24 hours after mixing.

Refer to the "WEEDS CONTROLLED" section of this label for application rates and weeds controlled.

Read and carefully observe precautionary statements and all other information appearing on the labeling of all products used in mixtures and sequential treatments.

NOTE

Direct contact or exposure to this product or spray mixtures of this product should be minimized. The following instructions for transfer, mixing, cleaning or repairing equipment should be followed in order to minimize this exposure. Review the protective clothing requirements as listed in the "PRECAUTIONARY STATEMENTS" section of this label (front panel) and do not use this product until you have the necessary protective clothing.

Bulk Containers

Open pouring from these containers can result in exposure from splashing or spilling and is not recommended. This product should be transferred from these containers to the mix or spraytank using pumps or transfer probes. The probe or pump should not be removed from the container or disconnected until the container is emptied and rinsed. Use the pump or probe system to rinse the empty container and transfer the rinsate directly to the mix or spray tank.

Equipment Cleaning & Repair

Cleaning and repair of transfer systems and application equipment is a source of exposure to this product. Care should be taken to minimize exposure during cleaning and repair of transfer systems and application equipment. Whenever possible, these systems or equipment should be rinsed before being cleaned or repaired.

When repairs must be made during transfer or application, the equipment should be shut down, and special care taken to avoid contact with the pesticide.

Thoroughly clean application equipment immediately after use and prior to spraying crops other than corn. Prepare a tank cleaning solution which consists of a 2 percent solution of household ammonia. Use sufficient cleaning solution to thoroughly rinse all surfaces.

ROTATIONAL CROP INFORMATION

TopHand treated field corn fields may be rotated or replanted to milo (grain sorghum), field corn, soybeans or wheat (spring or winter) only. Do not replant or rotate to soybeans within 10 months, wheat within 3 months or milo within 2 months of an application of TopHand. Corn or milo can be replanted in the same growing season provided the maximum rate of this active ingredient (0.157 pounds per acre) per season is not exceeded.

**ROTATIONAL CROP INFORMATION
TIME INTERVAL BEFORE REPLANTING
(from last TopHand application)**

<u>Crop</u>	<u>Replanting Interval (Months)</u>
Field corn	0
Grain sorghum	2
Spring Wheat	3
Winter Wheat	3
Soybeans	10

Refer to individual product labels to determine rotational crop restrictions when tank mixtures or sequential treatments are used.

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MONSANTO COMPANY
THE AGRICULTURAL GROUP
ST. LOUIS, MISSOURI 63167