

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.

**A WEED, GRASS, AND HARVEST AID HERBICIDE
KEEP OUT OF REACH OF CHILDREN
DANGER  POISON**

ONE SWALLOW CAN KILL!

SYMPTOMS ARE PROLONGED AND PAINFUL. ONSET OF SYMPTOMS MAY BE DELAYED FOR UP TO 3 DAYS AFTER SWALLOWING.

PELIGRO

PRECAUCION AL USUARIO:

PRECAUCION AL USUARIO:
Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada amablemente.

- DO NOT USE OR STORE IN OR AROUND HOME.
- DO NOT REMOVE CONTENTS EXCEPT FOR IMMEDIATE USE.
- NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.
- READ PRECAUTIONARY STATEMENTS ON BACK PANEL.

ACTIVE INGREDIENT:	By WT.
Permethrin	
(1,1'-dimethyl-4,4'-bipyridinium dichloride)	37.05%
INERT INGREDIENTS:	62.95%
	100.00%

Contains 2.5 lbs paraquat cation per gallon
Contains starch (odor) and emetic
EPA Reg. No. 10182-280
EPA Est. No. 10182-TX-1

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: IMMEDIATELY induce vomiting by touching back of throat with finger. Administer fluids and induce further vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. **GET TO A HOSPITAL OR PHYSICIAN FAST.** PROMPT TREATMENT IS ESSENTIAL AND MUST BE INITIATED BEFORE SIGNS AND SYMPTOMS APPEAR.

NOTE TO PHYSICIANS: Call NCI AMERICA'S MEDICAL EMERGENCY INFORMATION NETWORK 1-800-327-8637 (Dial 1-800-F-A-S-T-45-2-2) at any time to obtain toxicologic and medical management consultation, a supply of literature data, and personnel analysis. Symptoms following ingestion must be delayed up to 2 days. To be effective, treatment for sorption poisoning must begin IMMEDIATELY. Treatment consists of binding sorbate in the gut with sorbents or of sorbents only in charcoal and removal of sorbate from the blood by intensive charcoal hemoperfusion or continuous hemodialysis.

IF ON SKIN: IMMEDIATELY wash with soap and water. Remove and wash all contaminated clothing and shoes with water and soap and hot water before laundering. Do not dry contaminated clothing and shoes before irrigation. **DO NOT** urinate, sweat or eat or use contaminated contact with intact skin may result in poisoning. **SEE MEDICAL ATTENTION.**

IF IN EYES: IMMEDIATELY wash eyes with water for at least 15 minutes and seek medical attention. Contact your closest eye injury. **CALL A PHYSICIAN.**

IF INHALED: IMMEDIATELY remove a victim to fresh air or get away from spray mist. Exposed may cause irritation, nose bleeds and they need to breathe. Stop, check, check, check procedures. The odor of this product is both the strongest sign that you have been fumigated, and the strongest sign that you are not.

Have up to date. **NO CALIFORNIA STATE WEETS**

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL 1-800-P-A-S-T-
H-E-D (327-6033).
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call
CHEMTREC 1-800-424-9300.

For other product information, contact your local ICI Americas Inc. Distributor or see Material Safety Data Sheet.

37.05%
62.95%
100.00%

ACCEPTED

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 10182-250

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER  POISON

FATAL IF SWALLOWED. INHALED OR ABSORBED THROUGH SKIN CAUSES
IRREVERSIBLE EYE DAMAGE. CAUSES SKIN IRRITATION. MAY CAUSE ALLERGIC
REACTIONS.

• When pouring, loading, mixing concentrate or when exposure to concentrate is possible, wear:

[illegible]

ENVIRONMENTAL HAZARDS

[illegible]

DIRECTIONS FOR 1981

2. It is violation of Federal law and may endanger the applicator or third parties to use this product without complying with all label directions and warnings. READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH LABEL STATEMENTS AND DIRECTIONS, AND: 7) APPLICABLE STATE AND FEDERAL REGULATIONS.

ANALYSIS

Caution: 2½ GALLONS
IN 6.6 LITERS

KEEP all unprotected persons out of operating areas or vicinity where danger of drift.

Caution states may require more restrictive safety intervals; consult Department of Agriculture for further information. Warden or state warden use of protective clothing and medical exposure monitoring is not given to us. Important! Do not use in enclosed areas or in areas to be treated.

Important: The effect of emulsifying GRAMTOP EXTRA is far more potent than which is used. Results from direct contact or inhalation of spray may result. Do not cause injury if used according to label instructions. Follow the label directions.

STORAGE AND DISPOSAL

PRECAUTIONS: Do not contaminate water, food or feed by storage/dumping of equipment. Open containers are prohibited.
STORAGE: Store at temperatures above 32°F. Do not contaminate or drain water. Do not store near food or feed, or transport in or contain livestock or feeds. For help with any spill, leak, fire or explosion, call CHEMTREC 1-800-424-9300.

PESTICIDE DISPOSAL: This product is acutely hazardous, impairs aquatic life, kills birds, or is toxic to fish. It is a violation of Federal law to dispose of this product in water. Do not follow label instructions. State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

CLEANUP DISPOSAL: Triple rinse (or equivalent). Do not reuse or

WARNING: Read the entire Directions for Use and the Conditions of Sale and the full contract.

[illegible]

Seller warrants that this product conforming to the foregoing description at the time it is for the purpose stated on the label, subject to the inherent risks referred to in accordance with directions, under normal conditions of use. This warranty does not cover the product contrary to EPA Regulations, or under abnormal conditions of use, nor is it intended to be used for any purpose other than that intended by the manufacturer. Seller disclaims all other warranties expressed or implied, including any warranty of fitness or merchantability.

whereby Buyer of these services or equipment, standing from the use of hardware including devices based on contract, respectively, their liability or others may be deemed primarily really in writing. Seller of the goods to be shipped to receive the same on their terms. The EXCLUDED LIABILITY OF BUYER OR USER AND THE LIMIT OF will be, at the expense of Buyer, related to the purchase price for the Product (being of amount of product used). BUYER SHALL NOT BE LIABLE FOR CORRUPTION, DIRECT DAMAGES AND LOSS OF PROFITS AND LOSS OF DATA AND LOSS OF INFORMATION. THE LIABILITY OF BUYER AND USER'S EXCLUSION AND LIMIT SHALL BE REFLECTED IN THE PURCHASE PRICE.

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Made in U.S.A.



Agricultural Product

ICI Americas Inc.
Wilmington, Delaware 19897

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RESTRICTED USE PESTICIDE. 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.



A WEED, GRASS, AND HARVEST AID HERBICIDE

ACTIVE INGREDIENT:
 Paraquat dichloride
 (1,1-dimethyl-4,4'-bipyridinium dichloride) 37.05%
INERT INGREDIENTS: 62.95%
 100.00%

Contains 2.5 lbs. paraquat cation per gallon
 Contains starch (color) and emetic
 EPA Reg. No. 10182-280
 EPA Est. No. 10182-12-1

KEEP OUT OF REACH OF CHILDREN
DANGER POISON
ONE SWALLOW CAN KILL!

SYMPTOMS ARE PROLONGED AND PAINFUL. ONSET OF SYMPTOMS MAY BE DELAYED FOR UP TO 3 DAYS AFTER SWALLOWING.

PELIGRO
PRECAUCION AL USUARIO:

- Si usted no lee inglés, no use este producto hasta que le explique a alguien que habla español las instrucciones.
- NO USE EN SU CASA NI EN SU ALREDEDOR.
- NO REMUEVA LOS CONTENEDORES EXCEPTO PARA USO INMEDIATO.
- NUNCA PONGA EN LA BOCA, NI EN OTROS CONTENEDORES.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER POISON

FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRREVERSIBLE EYE DAMAGE. CAUSES SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT breathe spray mist. WASH SPLASHES from skin and eyes immediately. WASH thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

- When pouring, bagging, mixing concentrates or when exposure to concentrate is possible wear a NIOSH/MSHA approved pesticide respirator.
- Protective clothing (disposable suit/coveralls or long sleeved shirt and pants): Full face shield.
- Use tearless waterproof gloves.
- Waterproof apron and footwear.
- When spraying and-use dilution outside of an enclosed cab or aircraft or when contacting vegetation with spray mist.
- Protective clothing (disposable suit/coveralls or long-sleeved shirt and pants): Water-tight hood.
- Waterproof footwear.

REMOVE contaminated clothing and wash separate from other laundry before reuse.

Made in U.S.A.

ICI Agricultural Products

ICI Americas Inc.
 Wilmington, Delaware 19897

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: IMMEDIATELY induce vomiting by touching back of throat with finger. Administer FIRST AID. Do not induce vomiting or give anything by mouth to an unconscious person. GET TO A HOSPITAL OR PHYSICIAN FAST. PROMPT TREATMENT IS ESSENTIAL AND MUST BE INITIATED BEFORE SIGNS AND SYMPTOMS APPEAR.

NOTE TO PHYSICIANS: Call ICI AMERICAS MEDICAL EMERGENCY INFORMATION NETWORK 1-800-327-8633 (Day 1-800-F-A-S-T-31-31-8-9) at any hour to obtain toxicology and medical management consultation, a supply of bentonite clay, and pyraloxanone. Symptoms following ingestion may be delayed up to 3 days. To be effective, treatment for paraquat poisoning must begin IMMEDIATELY. Treatment consists of binding paraquat in the gut with suspensions of bentonite clay or charcoal and removal of paraquat from the blood by prolonged charcoal hemoperfusion or continuous hemodialysis.

IF ON SKIN: IMMEDIATELY wash with soap and water. Remove and wash all contaminated clothing inside from other laundry with soap and hot water before reusing. Prolonged contact will cause severe irritation. Contact with irritated skin or a cut or repeated contact with intact skin may result in poisoning. GET MEDICAL ATTENTION.

IF IN EYES: IMMEDIATELY wash eyes with water for at least 15 minutes and get medical attention. Contact may cause eye injury. CALL A PHYSICIAN.

IF INHALED: IMMEDIATELY remove victim to fresh air or get away from spray mist. Exposure may cause irritation, nose bleeds and may lead to poisoning. Stop and check spray procedure. The odor of this product is from the starching agent which has been added, not from paraquat. Read and follow PRECAUTIONARY STATEMENTS.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL 1-800-F-A-S-T-31-31-8-9 (247-8633).
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

For other product information, contact your local ICI Americas Inc. Dist. outlet or see Material Safety Data Sheet.

ENVIRONMENTAL HAZARDS

WILDLIFE: This product is toxic to wildlife. Birds and other wildlife in treated areas may be killed. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not contaminate water when disposing of equipment washwaters. **BIRDS:** GRAMOXONE EXTRA is a contact herbicide that kills all green plant tissue. Do not apply under conditions involving possible drift to food, forage, or other plants that might be damaged or the crops that rendered unfit for sale, use, or consumption. Do not apply when weather conditions favor drift from areas treated for aerial application. Use, do not apply during periods of thermal inversion to avoid drift.

CHEMICAL HAZARD: This product reacts with aluminum to produce hydrogen gas which may form a highly explosive mixture. Such gas could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette, or other ignition source. Do not mix or store in containers spray tanks, nurse tanks, or such systems made of aluminum or having aluminum fittings. After dilution with water to spray concentrations, spray systems made of, or containing aluminum parts, may be used but should not be used for extended (overnight) storage.

EQUIPMENT/CONTAINER: Flush all spray equipment with water after use each day. GRAMOXONE EXTRA is corrosive to aluminum. Aluminum spray equipment and aluminum aircraft structures that are exposed to spray solution or spray drift should be flushed thoroughly with water immediately after use.

Gramoxone® Extra HERBICIDE

DIRECTIONS FOR USE

It is a violation of Federal law and may endanger the applicator or third parties to use this product without complying with all label directions and warnings. READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

NOTE: Do Not Use Around Home Gardens, Schools, Recreational Parks, or Playgrounds.

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

Refer to Supplemental Pamphlet for Use Directions.

REENTRY STATEMENTS

DO NOT enter treated areas without protective clothing until sprays have dried.

AVOID working in spray mist. If there is a risk of exposure, wear goggles and approved face mask capable of filtering spray droplets.

KEEP all unprotected persons out of operating areas or vicinity where there may be danger of drift.

Certain states may require more restrictive reentry intervals; consult your State Department of Agriculture for further information. Written or oral warnings regarding use of protective clothing and accidental exposure must be given to workers who are expected to be in treated areas or in areas about to be treated.

IMPORTANT: The effect of swallowing GRAMOXONE EXTRA is far more severe than that which usually results from skin contact or inhalation of spray mist. This product should not cause injury if used according to label instructions. Follow the label as if your life depends on it.

STORAGE AND DISPOSAL

PRECAUTIONS: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

STORAGE: Store at temperatures above 32°F. Do not contaminate feed, foodstuffs or drinking water. Do not store near feed or food, or transport in or on vehicles containing foodstuffs or feeds. For help with any spill, leak, fire or exposure involving this material, call CHEMTREC 1-800-424-9300.

PESTICIDE DISPOSAL: This product is acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue is a violation of Federal law. If these wastes cannot be disposed of or used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Recycle container and offer for recycling, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

CONTAINER PRECAUTIONS: Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn thread on closure devices. REFILL ONLY WITH GRAMOXONE EXTRA. The contents of this container cannot be completely removed by cleaning.

Refilling with materials other than GRAMOXONE EXTRA herbicide will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result.

Use of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the Seller. All such risks shall be assumed by Buyer and User. Buyer and User agree to hold Seller harmless for any claims relating to such factors.

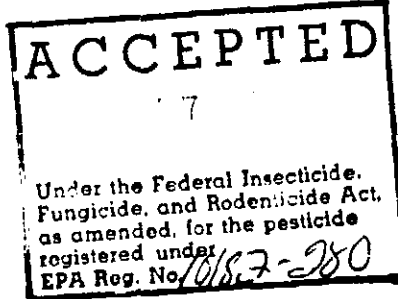
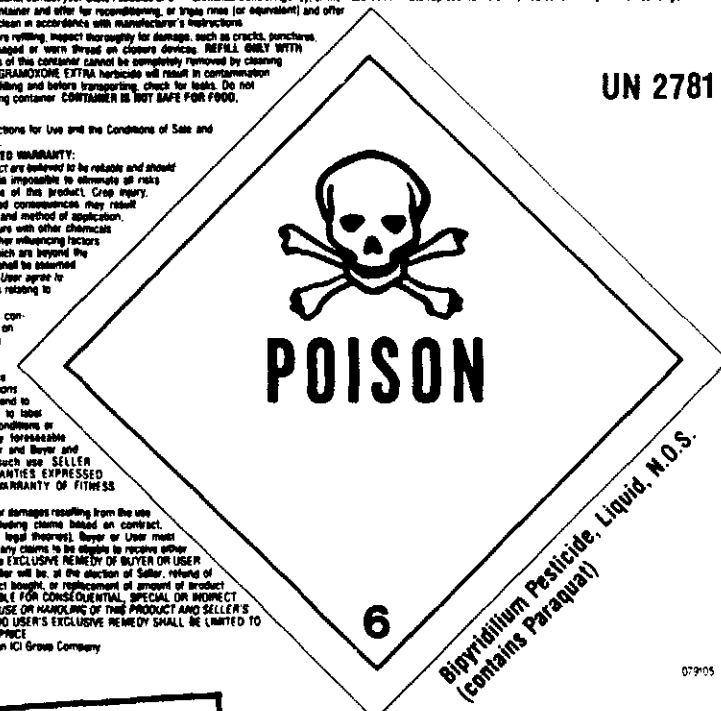
Seller warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller and Buyer and User assumes the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of all or part of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

GRAMOXONE® is a trademark of an ICI Group Company.

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UN 2781



EXTRA HERBICIDE

a weed, grass, and harvest aid herbicide

Keep Out of Reach of Children DANGER POISON

ONE SWALLOW CAN KILL!

SYMPTOMS ARE PROLONGED AND PAINFUL ONSET OF SYMPTOMS MAY BE DELAYED FOR UP TO 3 DAYS AFTER SWALLOWING.

PELIGRO

PRECAUCION AL USUARIO:

- Si usted no lee estos, no use este producto hasta que le sea explicado el uso adecuado.
- DO NOT USE OR STORE IN OR AROUND HOME.
- DO NOT REMOVE CONTENTS EXCEPT FOR IMMEDIATE USE.
- NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.

ACTIVE INGREDIENT:	By Wt.
Paraquat dichloride	
(1,1'-dimethyl-4,4'-bipyridinium dichloride)	37.05%
INERT INGREDIENTS:	62.95%
Contains 2.5 lb. paraquat cation per gallon	100.00%
Contains stench (odor) and emetic	
EPA Reg. No. 10182-280	
EPA Est. No. 10182-TX-1	

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: IMMEDIATELY induce vomiting by touching back of throat with finger. Administer fluids and induce further vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. GET TO A HOSPITAL OR PHYSICIAN FAST. PROMPT TREATMENT IS ESSENTIAL AND MUST BE INITIATED BEFORE SIGNS AND SYMPTOMS APPEAR.

NOTE TO PHYSICIANS: Call ICI AMERICAS MEDICAL EMERGENCY INFORMATION NETWORK 1-800-327-8633 (Dial 1-800-F-A-S-T-M-E-D) at any hour to obtain toxicology and medical management consultation; a supply of bentonite clay, and paraquat analysis. Symptoms following ingestion may be delayed up to 3 days. To be effective, treatment for paraquat poisoning must begin IMMEDIATELY. Treatment consists of binding paraquat in the gut with suspensions of bentonite clay or charcoal and removal of paraquat from the blood by prolonged charcoal hemoperfusion or continuous hemodialysis.

IF ON SKIN: IMMEDIATELY wash with soap and water. Remove and wash all contaminated clothing separate from other laundry with soap and hot water before reusing. Prolonged contact will cause severe irritation. Contact with irritated skin or a cut or repeated contact with intact skin may result in poisoning. GET MEDICAL ATTENTION.

IF IN EYES: IMMEDIATELY wash eyes with water for at least 15 minutes and get medical attention. Contact may cause eye injury. CALL A PHYSICIAN.

IF INHALED: IMMEDIATELY remove victim to fresh air or get away from spray mist. Exposure may cause irritation, nose bleeds and may lead to poisoning. Stop and check spray procedure. The odor of this product is from the stenching agent which has been added, not from paraquat.

Read and follow PRECAUTIONARY STATEMENTS

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL 1-800-F-A-S-T-M-E-D (327-8633).
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

For other product information, contact your local ICI Americas Inc. Distributor or see Material Safety Data Sheet.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER POISON

FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRREVERSIBLE EYE DAMAGE. CAUSES SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION.

DO NOT get in eyes, on skin, or on clothing. DO NOT breathe spray mist. WASH SPLASHES from skin and eyes immediately. WASH thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

- When pouring, loading, mixing concentrate or when exposure to concentrate is possible wear:
A NIOSH/MSHA-approved pesticide respirator.
Protective clothing (disposable suit/coveralls or long-sleeved shirt and pants).
Full face shield.
Self-contained waterproof gloves.
Waterproof apron and footwear.
- When spraying and use dilution outside of an enclosed cab or aircraft or when contacting vegetation wet with spray wear:
Protective clothing (disposable suit/coveralls or long-sleeved shirt and pants).
Wide-brimmed hat.
Waterproof footwear.

REMOVE contaminated clothing and wash separate from other laundry before reuse.

NET CONTENTS: 110 U.S. Gallons
(416.9 Liters)

FOR MINI-BULK CONTAINERS

ENVIRONMENTAL HAZARDS

WILDLIFE: This product is toxic to wildlife. Birds and other wildlife in treated areas may be killed. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not contaminate water when disposing of equipment washwaters.

DRIFT: GRAMOXONE EXTRA is a contact herbicide that kills all green plant tissue. Do not apply under conditions involving possible drift to food, forage, or other plantings that might be damaged or the crops thereof rendered unfit for sale, use, or consumption. Do not apply when weather conditions favor drift from areas treated. For aerial applications use, do not apply during periods of thermal inversion to avoid drift.

CHEMICAL HAZARD: This product reacts with aluminum to produce hydrogen gas which may form a highly combustible gas mixture. Such gas could flash or explode, causing serious personal injury. If ignited by open flame, spark, welder's torch, lighted cigarette, or other ignition source. Do not mix or store in containers, spray tanks, nurse tanks, or such systems made of aluminum or having aluminum fittings. After dilution with water to spray concentrations, spray systems made of, or containing aluminum parts, may be used but should not be used for extended (overnight) storage.

EQUIPMENT/CONTAINER: Flush all spray equipment with water after use each day. GRAMOXONE EXTRA is corrosive to aluminum. Aluminum spray equipment and aluminum aircraft structures that are exposed to spray solution or spray drift should be flushed thoroughly with water immediately after use.

DIRECTIONS FOR USE

It is a violation of Federal law and may endanger the applicator or third parties to use this product without constraints and warnings. READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.
NOTE: Do Not Use Around Home Gardens, Schools, Recreational Parks, or Playgrounds.
Do not apply this product through any type of irrigation system.
Refer to Supplemental Pamphlet for Use Directions.

REENTRY STATEMENTS

DO NOT enter treated areas without protective clothing until sprays have dried. AVOID working in spray mist. If there is a risk of exposure, wear goggles and approved face mask capable of filtering spray droplets.
KEEP all unprotected persons out of operating areas or vicinity where there may be danger of drift.

Certain states may require more restrictive reentry intervals. Consult your State Department of Agriculture for further information. Written or oral warnings regarding use of protective clothing and accident exposure must be given to workers who are expected to be in treated areas or in areas about to be treated.

IMPORTANT: The effect of swallowing GRAMOXONE EXTRA is far more severe than that which usually results from skin contact or inhalation of spray mist. This product should not cause injury if used according to label instructions. Follow the label as if your life depends on it.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open during use is prohibited.

STORAGE: Store at temperatures above 32°F. Do not contaminate feed, foodstuffs or drinking water. Do not store next to feed or food, or transport in or on vehicles containing foodstuffs or feeds. For help with any spill, leak, fire or exposure involving this material, call CHEMTREC 1-800-424-9300.

PESTICIDE DISPOSAL: This product is acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

MINI-BULK CONTAINER PRECAUTIONS—Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn thread on closure devices. REFILL ONLY WITH GRAMOXONE EXTRA. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than GRAMOXONE EXTRA herbicide will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of the product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or off-, or influencing factors in the use of the product, all of which are beyond the control of the Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for an "as is" sale relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes intended by the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to Seller. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES OF ANY SUCH USE. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either a refund or a replacement of the product. THE EXCLUSIVE REMEDY OF BUYER OR USER AND THE LIMIT OF LIABILITY OF Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of product of equal value. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

GRAMOXONE® is a trademark of an ICI Group Company.
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IMPORTANT

See attached booklet for Use Precautions, Directions for Use and Recommendations.
Read all label directions before using.



ACCEPTED

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10182-280

PLACE
Complete Directions for Use
Booklet
Here



Made in U.S.A.

Agricultural Products

ICI Americas Inc.
Wilmington, Delaware 19897

079105

BEST AVAILABLE COPY



UN 2781

BIPYRIDILIUM
PESTICIDE, LIQUID
N.O.S. (CONTAINS
PARAQUAT)

STATEMENT OF PRACTICAL TREATMENT
IF SWALLOWED: IMMEDIATELY induce vomiting by touching back of throat with finger. Administer fluids and induce further vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. GET TO A HOSPITAL. DO NOT TAKE ANY MORE PESTICIDES. TREATMENT OF PARACUAT AND MUST BE INITIATED BEFORE SIGNS AND SYMPTOMS APPEAR.

NOTE TO PHYSICIANS: Call ICI AMERICAN MEDICAL EMERGENCY INFORMATION NETWORK 1-800-871-0000 (toll 1-800-7-3-3-1-8-2-0) if any have to obtain laboratory and medical management consultation. A supply of barium chloride and paraquat solutions. Symptoms following ingestion may be delayed up to 3 days. To be effective, treatment for paraquat poisoning must begin IMMEDIATELY. Treatment consists of lavage of stomach in the gut with suspensions of barium chloride or charcoal and removal of paraquat from the blood by prolonged charcoal hemoperfusion or continuous hemodialysis.

IF ON SKIN: IMMEDIATELY wash with soap and water. Remove and wash all contaminated clothing separate from other laundry with soap and hot water before reusing. Prolonged contact will cause severe irritation. Contact with irritates skin or a part of repeated contact with irritates than may result in poisoning. GET MEDICAL ATTENTION.
IF IN EYES: IMMEDIATELY wash eyes with water for at least 15 minutes and get medical attention. Contact may cause eye injury. CALL A PHYSICIAN.
IF INHALED: IMMEDIATELY remove victim to fresh air or get away from spray mist. Exposure may cause irritation, nose bleeds and may lead to poisoning. Stop any check spray procedure. The odor of this product is from the strong-smelling agent which has been added, not from paraquat.
Read and follow PRECAUTIONARY STATEMENTS

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL 1-800-871-0000 (toll 1-800-7-3-3-1-8-2-0) FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

For other product information, contact your local ICI Americas Inc. Distributor or see Material Safety Data Sheet.

ENVIRONMENTAL HAZARDS
WILDLIFE: This product is toxic to wildlife. Birds and other wildlife in treated areas may be killed. Do not apply directly to water or wetlands (swamps, bays, marshes and estuaries). Do not contaminate water when disposing of equipment washwaters.

DRIFT: GRAMOXONE EXTRA is a contact herbicide that kills all green plant tissue. Do not spray under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof removed until for sale, use, or consumption. Do not spray when weather conditions favor drift from areas treated. For aerial application use, do not spray during periods of thermal inversion to avoid drift.

CHEMICAL HAZARDS: The product reacts with aluminum to produce hydrogen gas which may form a highly combustible gas mixture. Such gas could leak or explode, causing serious personal injury. If ignited by open flame, spark, weld or torch, liquid, electrical, or other similar source. Do not use or store in containers, spray tanks, pump tanks, or such systems made of aluminum or having aluminum linings. After dilution with water to spray concentrations, spray systems made of or containing aluminum parts may be used but should not be used for extended (overnight) storage.

EQUIPMENT/CONTAINERS: Flush all spray equipment with water after use each day. GRAMOXONE EXTRA is corrosive to aluminum. Aluminum spray equipment and aluminum structural structures that are exposed to spray solution or spray drift should be flushed thoroughly with water immediately after use.

DIRECTIONS FOR USE
It is a violation of Federal law and may endanger the applicator if third parties use the product without complying with all label directions and warnings. READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

NOTE: Do Not Use Around Home Gardens, Schools, Recreational Parks, or Playgrounds.
Do not apply the product through any type of irrigation system.
Refer to Label Section for Use Directions

RESTRICTED USE PESTICIDE

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



A WEED, GRASS, AND HARVEST AID HERBICIDE

KEEP OUT OF REACH OF CHILDREN

DANGER POISON



PELIGRO

PRECAUCION AL USUARIO:

Si usted no lee el etiquete, no use este producto hasta que se explique lo haya sido aplicados implementos

ACTIVE INGREDIENT:
Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride) 37.00%
Inert ingredients 63.00%
100.00%

Contains 2.6 lbs. paraquat cation per gallon
Contains starch (0.001) and emulsifier

EPA Reg. No. 1092-290
EPA Est. No. 1092-TX-1

Contents:
THIRTY U.S. GALLONS
(113.7 LITERS)

ONE SWALLOW CAN KILL!
SYMPTOMS ARE PROLONGED AND PAINFUL. ONE'S TONGUE MAY BE DELAYED FOR UP TO 3 DAYS AFTER SWALLOWING.

- DO NOT USE OR STORE IN OR AROUND
- DO NOT REMOVE CONTENTS EXCEPT FOR IMMEDIATE USE.
- NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.
- READ PRECAUTIONARY STATEMENTS BELOW.
- REFER TO LEFT SIDE PANEL FOR STATEMENT OF PRACTICAL TREATMENT.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER POISON

FATAL IF SWALLOWED, INHALED OR ABSORBED. SKIN CAUSES IRREVERSIBLE EYE DAMAGE. CAUTION: MAY CAUSE ALLERGIC REACTION. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT SWALLOW SPILLAGE. WASH EYES IMMEDIATELY WITH COLD WATER AFTER HANDLING AND DRINKING, OR USING MACHINES.

• When pouring, loading, moving, concentrating or emptying a container, avoid splashing or spraying. Avoid contact with skin, eyes, nose, mouth, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using machines.

• When pouring, loading, moving, concentrating or emptying a container, avoid splashing or spraying. Avoid contact with skin, eyes, nose, mouth, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using machines.

• When pouring, loading, moving, concentrating or emptying a container, avoid splashing or spraying. Avoid contact with skin, eyes, nose, mouth, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using machines.

Made in U.S.A.
ICI Agricultural Products
ICI Americas Inc.
Wilmington, Delaware 1987

ACCEPTED

OCT 17 1991

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 10182-28

FIRENZE & COMPANY, INC.			(302) 571-TYPE		
300 Cornett Dr., Suite A-2, Wilmington, DE 19801			FAX (302) 571-0897		
UNIT NO.	VOLUME	STATUS	GROUP ICI		
FILE # 1088A-01	DATE 8-16-91	TIME 14:44	OPERATOR 006		
DESCRIPTION: MARSA DEPARLUS-ICI-PO 1208-GRAMOXONE EXTRA					

BEST AVAILABLE COPY

501870
500171-0010 ICI Americas Inc. 1991

EPA Reg. No. 10182-280

ICI Americas Inc.
Wilmington, Delaware 19807
Agricultural Products



**DIRECTIONS FOR USE AND
CONDITIONS OF SALE AND WARRANTY**
IMPORTANT: Read the entire Directions for Use and
the Conditions of Sale and Warranty before using
this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:
The Directions for Use of this product are believed to be
reliable and should be followed carefully. However, it is
impossible to eliminate all risks inherently associated with
the use of this product. Crop injury, ineffectiveness or
other unintended consequences may result because of
such factors as timing and method of application, weather
and crop conditions, mixture with other chemicals not
specifically recommended or other influencing factors in
the use of this product, all of which are beyond the control
of the Seller. All such risks shall be assumed by Buyer and
User, and Buyer and User agree to hold Seller harmless
for any claims relating to such factors.

Seller warrants that the product conforms to the chemical
description on the label and is reasonably fit for the
purpose stated on the label, subject to the relevant risks
referred to above, when used in accordance with direc-
tions under normal conditions of use. This warranty does
not extend to the use of this product contrary to label
instructions, or under abnormal conditions or under
conditions not reasonably foreseeable to or beyond the
control of Seller and Buyer and User assume the risk of
any such use. SELLER DISCLAIMS ALL OTHER WAR-
RANTIES EXPRESSED OR IMPLIED INCLUDING ANY
WARRANTY OF FITNESS OR MERCHANTABILITY.

When Buyer or User claims losses or damages resulting
from the use or handling of this product (including claims
based on contract, negligence, strict liability or other legal
theories), Buyer or User must promptly notify in writing
Seller of any claims to be deemed to have accepted the
contractual terms hereof. The EXCLUSIVE REMEDY OF
BUYER OR USER AND THE LIMIT OF LIABILITY OF SELLER
will be, at the discretion of Seller, refund of the purchase
price paid for product bought, or replacement of amount
of product used. SELLER SHALL NOT BE LIABLE FOR
CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RE-
SULTING FROM THE USE OR HANDLING OF THIS
PRODUCT AND SELLER'S SOLE LIABILITY AND BUY-
ER'S AND USER'S EXCLUSIVE REMEDY SHALL BE
LIMITED TO THE REFUND OF THE PURCHASE PRICE
1991 ICI Americas Inc.

Keep Out of Reach of Children

DANGER POISON

ONE SWALLOW CAN KILL!

**SYMPTOMS ARE PROLONGED AND
PAINFUL. ONSET OF SYMPTOMS
MAY BE DELAYED FOR UP TO 3 DAYS
AFTER SWALLOWING.**

PELIGRO

PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta
que se le explique lo que debe significar.

- DO NOT USE OR STORE IN OR AROUND HOME.
- DO NOT REMOVE CONTENTS EXCEPT FOR IMMEDIATE USE.
- NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.

Active Ingredient By WL
Paraquat dichloride
(1,1'-dimethyl-4,4'-bipyridinium
dichloride) 37.66%
Inert Ingredients 62.34%
100.00%

Contains 2.5 lbs. paraquat cation per gallon
Contains starch (odor) and smelt

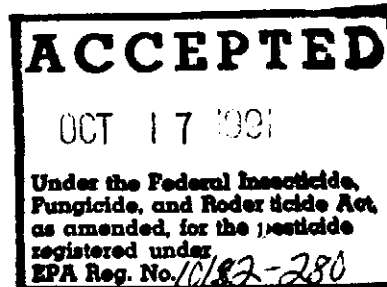
EPA Reg. No. 10182-280

IF INHALED: IMMEDIATELY remove victim to
fresh air or get away from spray mist. Exposure
may cause irritation, nose bleeds, and may lead to
poisoning. Stop and check spray procedure. The
odor of this product is from the stamping agent
which has been added, not from paraquat.
Read and follow PRECAUTIONARY STATEMENTS

FOR 24-HOUR EMERGENCY MEDICAL
ASSISTANCE, CALL 1-800-F-A-S-T-8-E-D
(327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak,
fire, exposure, or accident call CHEMTREC
1-800-424-9300.

For other product information, contact your local
ICI Americas Inc. Distributor or see Material Safety
Data Sheet.



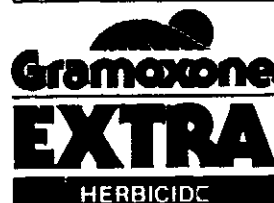
ENVIRONMENTAL HAZARDS

WILDLIFE: This product is toxic to wildlife
and other wildlife in treated areas may be
not apply directly to water or wetlands (i.e.
bogs, marshes and potholes). Do not con-
tact herbicide that kills all green plants.
Do not apply under conditions involving
drift to food, forage, or other plantings that
damaged or the crops thereof rendered
sale, use, or consumption. Do not ap-
ply under conditions favor drift from areas.
Do not apply during periods of thermal inver-
sion.

CHEMICAL HAZARD: This product re-
sults in aluminum to produce hydrogen gas, which
forms a highly combustible gas mixture. It
could flash or explode, causing serious
injury, if ignited by open flame, spark, weld-
ing, or other ignition source. Do not
store in containers, spray tanks, or
such systems made of aluminum or have
aluminum fittings. After dilution with water,
concentrations, spray systems made of
aluminum parts, may be used but
not be used for extended (overnight) stor-
age. EQUIPMENT/CONTAINER: Flush all
equipment with water after use of
GRAMOXONE EXTRA is corrosive to all
Aluminum spray equipment and aluminum
structures that are exposed to spray ac-
tivity. Spray drift should be flushed thoroughly
immediately after use.

RESTRICTED USE PESTICIDE

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.



A Weed, Grass, and Harvest Aid Herbicide

COMPLETE DIRECTIONS FOR USE



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Peas (green and white)	90-92
Peas (green and white)	93-95
Peas (green and white)	96-98
Peas (green and white)	99-101
Peas (green and white)	102-104

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: IMMEDIATELY induce vomiting
by touching back of throat with finger. Administer
fluids and induce further vomiting. Do not induce
vomiting or give anything by mouth to an uncon-
scious person. GET TO A HOSPITAL OR PHY-
SICIAN FAST. PROMPT TREATMENT IS
ESSENTIAL AND MUST BE INITIATED BEFORE
SIGNS AND SYMPTOMS APPEAR.

NOTE TO PHYSICIANS: Call ICI AMERICAS
MEDICAL EMERGENCY INFORMATION NET-
WORK 1-800-227-8633 (Dist. 1-800-F-A-S-T-
N-E-E-D) at any hour to obtain toxicology and
medical management consultation, a supply of
bentonite clay, and paraquat analysis. Sym-
ptoms following ingestion may be delayed up
to 3 days. To be effective, treatment for
paraquat poisoning must begin IMMEDIATELY.
Treatment consists of binding paraquat in the gut
with suspensions of bentonite clay or charcoal
and removal of paraquat from the blood by
prolonged charcoal hemoperfusion or contin-
uous hemodialysis.

IF ON SKIN: IMMEDIATELY wash with soap and
water. Remove and wash all contaminated clo-
thing separate from other laundry with soap and
hot water before reusing. Prolonged contact will
cause severe irritation. Contact with irritated skin
or a cut or repeated contact with intact skin may
result in poisoning. GET MEDICAL ATTENTION.

IF IN EYES: IMMEDIATELY wash eyes with water
for at least 15 minutes and get medical attention.
Contact may cause eye injury. CALL A PHYSICIAN.

PRECAUTIONARY STATEMENTS

**HAZARD TO HUMANS AND
DOMESTIC ANIMALS**

DANGER POISON

FATAL IF SWALLOWED, INHALED OR AB-
SORBED THROUGH SKIN. CAUSES IRREVERS-
IBLE EYE DAMAGE. CAUSES SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

DO NOT get in eyes, on skin, or on clothing. DO
NOT breathe spray mist. Wash SPLASHES from
skin and eyes immediately. WASH thoroughly with
soap and water after handling and before eating,
drinking, or using tobacco.

- When pouring, loading, mixing concentrate or
when exposure to concentrate is possible wear:
A NIOSH/MSHA-approved pesticide respirator.
Protective clothing (disposable suit/coveralls or
long-sleeved shirt and pants).
Full face shield.
Mid-forearm waterproof gloves.
Waterproof apron and footwear.
- When spraying and use dilution outside of an
enclosed cab or aircraft or when contacting
vegetation wet with spray mist:
Protective clothing (disposable suit/coveralls or
long-sleeved shirt and pants).
Wide-brimmed hat.
Waterproof footwear.
REMOVE contaminated clothing and wash
separate from other laundry before reuse.

DIRECTIONS FOR USE

It is a violation of Federal law and may be
the applicator or third parties to use this
product without complying with all label di-
rections and warnings.

**READ ENTIRE LABEL USE STRICTLY
CONFORMANCE WITH DANGER STATEMENT
DIRECTIONS, AND WITH APPLICABLE
FEDERAL REGULATIONS. READ PESTI-
CIDARY AND FIRST AID TREATMENT
INSTRUCTIONS ON PAGES 5-6.**
**NOTE: DO NOT USE AROUND HOME OR
SCHOOLS, RECREATIONAL PARKS,
PLAYGROUNDS.**
**DO NOT APPLY THIS PRODUCT THROU-
GH TYPE OF IRRIGATION SYSTEM.**

REENTRY STATEMENTS

DO NOT enter treated areas without full
clothing until sprays have dried.
AVOID working in spray mist if there
exposure, wear goggles and approved im-
capable of filtering spray droplets.
**KEEP ALL UNPROTECTED PERSONS
OPERATING AREAS OR VICINITY
THERE MAY BE DANGER OF DRIFT.**
Certain states may require more restrictive
interventions, consult your State Department
culture for further information.
Written or oral warnings regarding use
live clothing and accidental exposure
given to workers who are expected to be
areas or in areas about to be treated.

BEST AVAILABLE COPY

IMPORTANT: The effect of preharvest GRAMOXONE EXTRA is far more severe than that which usually results from skin contact or inhalation of spray mist. The product should not cause injury if used as directed according to label instructions. Follow the label as it may vary depending on it.

GENERAL INFORMATION

GRAMOXONE EXTRA herbicide is a contact herbicide used to control or suppress a broad spectrum of emerged weeds. GRAMOXONE EXTRA controls most small annual weeds—both broad-leaved and grasses, and suppresses perennial weeds by deactivating green foliage. GRAMOXONE EXTRA can also be used as a crop desiccant at harvest.

GRAMOXONE EXTRA is formulated as a liquid which contains 2 1/2 lbs. of active ingredients per gallon. The formulation is green in color and contains a non-flammable odor, and an emulsifier (an agent which will induce spraying if the product is used). The green color and odor are included in the formulation to help prevent accidental ingestion of GRAMOXONE EXTRA.

GRAMOXONE EXTRA is rapidly absorbed by green plant leaves and penetrates with the photosynthetic process to produce superoxides which destroy the plant cells. GRAMOXONE EXTRA requires active growing green plant tissue to function. Thorough coverage of all green foliage is essential for effective weed control. GRAMOXONE EXTRA is not as effective on drought-stressed weeds, weeds with little green foliage (i.e., mowed or cut weeds), or mature woody bark of trees and vines.

Clay and organic matter rapidly break up GRAMOXONE EXTRA. As a result, GRAMOXONE EXTRA has no residual soil activity to affect later-planted crops or later germinating weeds.

RAPEFASTNESS
Because GRAMOXONE EXTRA is rapidly absorbed by the weed foliage, rain occurring 30 minutes or more after application will have no effect on the activity of GRAMOXONE EXTRA.

APPLICATION

Since GRAMOXONE EXTRA is a contact-type herbicide, it is essential to obtain complete coverage of target weeds to get good control. Improper application technique and/or application to large, stressed, or mowed weeds will usually result in unacceptable weed control. Good coverage is also essential for proper performance in harvest and applications. See details below for specific application instructions.

USE OF A NONIONIC SURFACTANT ON CROP OR CONCENTRATE

ALWAYS ADD ONE OF THE FOLLOWING:
Nonionic Surfactant: Add nonionic surfactant containing 75% or more surface-active agent at 0.125% v/v (1 pint per 100 gallons). OR add a nonionic surfactant containing 50-74% surface-active agent at 0.25% v/v (2 pints per 100 gallons). OR the finished spray volume for ground applications. For aerial applications, add a nonionic surfactant at 0.25% v/v (2 pints per 100 gallons) of the finished spray volume.

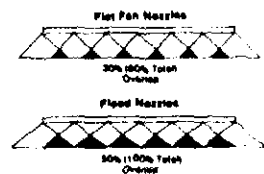
Crop Oil Concentrate: Add a non-phytotoxic crop oil concentrate containing 15-20% approved emulsifier at 1.0% v/v (1 gallon per 100 gallons) of the finished spray volume for ground applications. For aerial applications, add 1 pint of crop oil concentrate per acre.

NOZZLE SELECTION

The use of flat-fan nozzles will result in the most effective application of GRAMOXONE EXTRA. Flood nozzles are generally not so good as flat fans since they produce large uneven droplets. The use of flood nozzles may result in reduced weed control due to inadequate coverage.

RECOMMENDED NOZZLES, PRESSURES AND SETUP

	Nozzle Type	
	Flat Fan	Flood
Maximum Size Spray Pressure (at nozzle)	30-50 psi	30-50 psi
Maximum Nozzle Spacing	30"	40"
Direction of Spray Pattern	Down	Down
Maximum Speed	10 mph	10 mph
Spray Overlap (at each edge)	30%	50%



Using nozzles, pressures, or setups different from the above chart will result in reduced control.

SPRAY CARRIER

Always use clean water (free of mud or clay), clear liquid nitrogen, or complete clear liquid fertilizers as the carrier when spraying GRAMOXONE EXTRA. Muddy water, or suspension-type fertilizers containing clay, can inactivate GRAMOXONE EXTRA. Never use suspension-type fertilizers containing clay as the spray carrier. Using a complete clear liquid fertilizer containing high phosphate levels as the spray carrier, always use the higher rate of GRAMOXONE EXTRA and surfactant.

NOTE: When using liquid fertilizers such as 20% N, as a carrier, it is important that nonionic surfactant still be used with GRAMOXONE EXTRA. Liquid fertilizer carriers cannot substitute for surfactant.

RATES OF GRAMOXONE EXTRA

Follow recommended rates listed with each use of GRAMOXONE EXTRA. Use the higher label rates when weeds are dense or large. Also, use higher label rates for harvest aid when crop vegetation is dense.

SPRAY VOLUME

Follow recommended minimum spray volumes listed with each use of GRAMOXONE EXTRA. These are minimum volumes only, and spray volumes should be increased as necessary to obtain complete coverage of the target weed or plant without runoff from the foliage.

DRIFT MINIMIZATION

DO NOT spray if conditions of thermal inversion exist, or if wind direction and speed may cause spray drift onto adjacent areas. With both aerial and ground applications, the use of a drift control or spray deposition additive in accordance with label directions may reduce the potential for drift to occur. Drift minimization is the responsibility of the applicator. Consult with local and state agricultural authorities for information regarding avoiding or minimizing spray drift.

When GRAMOXONE EXTRA herbicide is applied at less than 10 gallons per acre finished spray volume, a drift control or spray deposition additive MUST be used. Refer to the agency label for use directions.

APPLICATION TIMING

GRAMOXONE EXTRA should be applied to emerged weeds when they are small. Weeds 1" to 8" in height are the easiest to control. Larger weeds may be more difficult to control. When weeds have been grazed or mowed, thus removing much of the green foliage, allow the weeds to regrow to a height of 2 to 4 inches before spraying if possible. Similarly, when forage or grain crops have been harvested prior to spraying, weeds present in the field will also have been cut. To allow for adequate green foliage to remain on weeds in this situation, raise the bar as high as possible from the ground to cut stubble and weeds at a greater height.

BURNDOWN OF GRASS COVER CROPS OR VOLUNTEER CEREALS

When using GRAMOXONE EXTRA for control of grass cover crops or volunteer cereals, best results are obtained when GRAMOXONE EXTRA is applied prior to flowering or after leaf stage. This is especially important with a wheat cover crop or volunteer wheat. Treatments made between tillering and boot stage will generally not provide complete control.

ENVIRONMENTAL CONDITIONS

GRAMOXONE EXTRA is active over a wide range of environmental conditions. Cool weather (below 55°) will slow the activity of GRAMOXONE EXTRA, as will cloudy, overcast weather, but will not affect performance.

In dry areas, dust stirred up by high winds or equipment tires can coat weed leaves and reduce GRAMOXONE EXTRA activity. Avoid applying GRAMOXONE EXTRA in extremely dusty conditions.

SPOT SPRAYING

When only small areas are to be sprayed with limited applications, it is advantageous to mix small quantities of GRAMOXONE EXTRA. To aid in mixing small quantities, the following label should be consulted. When spraying with wand-type applicators as in spot spraying, always follow precautionary statements regarding use, protective clothing and footwear.

If the broadcast rate per acre for GRAMOXONE EXTRA is:

1 1/2 pints
2 pints
2 1/2 pints
3 pints

Add the following amount of GRAMOXONE EXTRA to 1 gallon of water:

1/2 oz.
3/4 oz.
1 1/4 oz.
1 3/4 oz.

Always add 1/2 to 1/4 oz. of a nonionic surfactant for each gallon of spray. When spot spraying in the manner, spray thoroughly over the foliage, but not to the point of runoff.

TANKMIXING FOR IMPROVED BURNDOWN OF DIFFICULT WEEDS, AND RESIDUAL WEED CONTROL

PHOTOSYNTHETIC INHIBITOR HERBICIDES

Difficult weeds can often be controlled by tank-mixing GRAMOXONE EXTRA with other herbicides. The addition of herbicides which are also photosynthetic inhibitors (such as) will slow the activity of GRAMOXONE EXTRA allowing GRAMOXONE EXTRA to thoroughly penetrate leaf when the treated leaf. The resulting level of control is usually greater than if GRAMOXONE EXTRA was applied alone.

GRAMOXONE EXTRA may be applied in tank mixture with the following herbicides:

Akaris herbicide	Deflate herbicide
Aasen herbicide	Lesonal herbicide
Bacarb herbicide	Lesonal herbicide
Bleed herbicide	Laron Plus herbicide
Canopy herbicide	Larol herbicide
Conquest herbicide	Prayherb herbicide
Exsulfam herbicide	Princel herbicide
Gemini herbicide	Linear/Larol herbicide

Refer to respective product labels for rates of application, directions for use, limitations, cautions and for a list of weeds controlled.

*Not for use in California.

Improved Weed Control With Pils
Control of difficult weeds listed below can be improved by the addition of a Pils herbicide.

Marestal	Tanymustard
Pennsylvania Smartweed	Prickly Lettuce
Vernol	Lambsquarters
Wetzel (Chenopodium)	Morningglory
Fall Pansum	Chenopodium
Glenn Ragweed	Knotted
Kochia	Volunteer Wheat
Cocklebur	Perennial Weeds (suppression only)

IMPROVED CONTROL OF PERENNIAL AND ANNUAL BROADLEAF WEEDS

When perennial broadleaf weeds such as Canada thistle, burdock, dandelion, etc., or difficult to control annual broadleaf weeds such as giant ragweed or morningglory are present, tankmixing with 2,4-D ester (or 2,4-DB or BANVEL herbicide, where labeled), will help improve control. Tankmixing the same formulation of 2,4-D with GRAMOXONE EXTRA may result in reduced grass control.

ORDER OF TANK MIXING

In general, GRAMOXONE EXTRA tankmixes with other products should be mixed as follows:
1. Fill spray tank 1/2 full with clean water or other approved carrier such as clear liquid fertilizer.
2. Begin tank agitation and continue throughout mixing and spraying.
3. Add dry formulations (WP, DF, etc.) to tank.
4. Add liquid formulations (SC, EC, E, etc.) to tank.
5. Add GRAMOXONE EXTRA to tank.
6. Add nonionic surfactant to tank.
7. Fill remainder of spray tank.

Always refer to labels of other pesticide products for mixing directions and precautions which may differ from those outlined here.

Since many of the herbicides listed on this label are available in several types of formulations, it is advisable to perform a jar test to check physical compatibility.

LIMITATIONS, PRECAUTIONS AND WARNINGS

- DO NOT use around home gardens, schools, recreational parks, or playgrounds.
- In programs and preemergence (to the crop) used, do not apply to soils lacking clay minerals, i.e., peat, muck, pure sand, artificial planting media.
- Seedbeds and plantbeds should be formed as far ahead of planting and as soon as possible to permit maximum weed and grass emergence prior to treatment.
- Seeding or transplanting should be done with a minimum amount of soil disturbance.

Weeds and grasses emerging after application of GRAMOXONE EXTRA will not be controlled or suppressed.

Unless otherwise indicated, crop plants emerged at time of application may be severely injured or killed if contacted by sprays of GRAMOXONE EXTRA.

PRODUCT PERFORMANCE CONCERNS:
Concerns over the performance of GRAMOXONE EXTRA herbicide must be reported to the retail dealer or to an ICI representative within 14 days of application. Weeds emerging after application or regrowth of perennial weeds do not constitute a legitimate product performance concern.

SPECIFIC USE RECOMMENDATIONS

The following tables indicate use patterns, rates, minimum spray volumes, pre-harvest intervals and other precautions, restrictions and comments specific to each crop. Read and follow directions carefully.

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Crop	ALPILAR (East) Dormant season (Arizona and California)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	13-24 lb
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	60
Precautions, Restrictions and Comments	- Apply during late fall or winter months after the first fall cutting and before the spring cutting. - Do not apply if regrowth after grazing or cutting is more than 2 inches. - Do not harvest within 60 days of application or excessive residues may result. - Adults foliage present at the time of application will be decolorized and temporarily stunted. - Total dry yield of first cutting may be reduced in alfalfa fields with severe weed infestation. - This reduction will usually be directly proportional to the type of weed control. - Do not apply more than once per season. - Do not apply following cuttings during the growing season. - See page 25 for additional precautions.

Crop	ALPILAR (East) Dormant season (Arizona and California) (continued)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	1-1 1/2 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 10 gallons
Grazing or Preharvest Interval (Days)	42
Precautions, Restrictions and Comments	- For control of weeds such as chickweed, dandelion, and lambsquarters. - Use the 1 pint rate of GRAMOXONE EXTRA when weeds and grasses are less than 4 inches tall. - Mix with 1 to 2 quarts of Volupar I per acre. - Use the lower rate of Volupar I on heavy soils or sandy loams. Refer to Volupar I label for directions, limitations, cautions and for a list of weeds controlled. - Apply once to established alfalfa stands during the dormant season. - See page 23 for additional precautions.

Crop	ALPILAR (East) Dormant season on established plantings (WA, OR, CO, ID, MT, UT, NV, WY, and Cal Norte, Sonora, Modoc, Shasta, Lassen, Plumas, Sierra and Nevada Counties in CA)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	1 1/2-2 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	42
Precautions, Restrictions and Comments	- For decoloration of weeds including ryegrass, bluegrass, chickweed, dandelion, chickweed, and lambsquarters - a higher rate for bluegrass. - Apply to established stands after the first fall cutting when a top is present but before spring growth starts. - Do not apply if regrowth after last fall cutting is more than 2 inches. - Adults foliage at time of application will be burned. - Do not apply more than once per season. - Do not cut or harvest within 42 days of application.

Crop	ALPILAR New Seedlings (California only)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	See Table Page 67
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	70
Precautions, Restrictions and Comments	- Apply during late winter or early spring. - Do not cut or harvest within 70 days after application. - Do not apply more than once during the first growing season. - Caution: Seedling alfalfa stands will be reduced and reseedling may be necessary. - Not recommended for seedling alfalfa grown for seed. - Adults foliage present at time of application will be burned.

Crop	ALPILAR (East) Dormant season (Arizona and California) (continued)
Precautions, Restrictions and Comments	- California: - For decoloration of weeds including bluegrass, ryegrass, sheep sorghum, chickweed, lambsquarters, foxtail, annuals and grasses. - Use high rate if ryegrass, sheep sorghum, lambsquarters or grasses are present. - Arizona: - For decoloration of weeds including London rocket, spurrella, ryegrass, and wild oats.

Crop	ALPILAR (East) Dormant season (Arizona and California) (continued)
Precautions, Restrictions and Comments	- Do not apply to regrowth that is more than 2 inches. - Do not apply following cuttings during growing season. - Do not apply to alfalfa during the first season after seeding. - Temporary chlorosis may occur in alfalfa regrowth. - Stress which may be caused in part by the herbicide disease insects, winterkill over cutting drought or frost may increase the chances of crop injury. - DO NOT USE on gravelly or rocky soils, exposed slopes, hardpan, sand or poorly drained alkaline soils as crop injury, including mortality, may result. - Do not cut or harvest within 42 days of application.

Crop	ALPILAR (East) Dormant season on established plantings (East of the Rocky Mountains and North of the Southern borders of CO, KS, MO, KY and VA)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	1 1/2-2 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	60
Precautions, Restrictions and Comments	- For control of weeds including bluegrass, chickweed, foxtail, and dandelion and suppression of perennial weeds. - Do not apply if last regrowth following last fall cutting is greater than 5 inches. - Apply to well-established stands (at least one year old) after the crop is dormant, but before spring regrowth reaches one inch. - Adults foliage present at the time of application will be burned which may reduce the yield of the first cutting. - Do not cut or harvest within 60 days of application. - Do not apply more than once per season.

Crop	ALPILAR (East) Preplant or Preemergence (No till or no-tillage planting)
Use Pattern	Broadcast or Bandcast Only Rate
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground: 10 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	-
Precautions, Restrictions and Comments	- Apply prior to emergence of the crop. - Crop stands emerged at time of application will be killed. - Seeding should be done with a minimum amount of soil disturbance.

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Crop	Conservation Reserve and Personal Set-Aside Programs (For use in compliance with the Federal Conservation Reserve Program or Federal set-aside programs)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground: 10 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• For improved weed control or extended weed control, GRAMOXONE EXTRA may be tankmixed with other herbicides registered for this use. Refer to 1-4-15 for herbicide labels for specific directions, limitations, cautions and for a list of weeds controlled.

Crop	Corn Preplant or Preemergence (Used alone)
Use Pattern	Broadcast or Banded Over Row
GRAMOXONE EXTRA Rate Per Acre	Woods 1-2" 14-2 pints Woods 2-6" 2-2 1/2 pints Woods 6" 2 1/2-3 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Includes field, fresh, sweet, forage, fodder and popcorn • Seedbeds should be formed as far ahead of planting and treatment as possible to permit maximum weed and grass emergence • Seeding should be done with a minimum amount of soil disturbance • Weeds and grasses emerging after application will not be controlled. Crop plants emerged at time of application will be killed

Crop	CASSAVA, TANNERS, WHEAT Shoulder Post-directed spray (Puerto Rico only)
Use Pattern	Shoulder Spray
GRAMOXONE EXTRA Rate Per Acre	1 1/4 pints
Minimum Total Spray Per Acre	Ground: 50 gallons
Grazing or Preharvest Interval (Days)	60
Precautions, Restrictions and Comments	• Apply when weeds are abundant and growth is 1-6 inches • Do not exceed 1000 lbs. do not make more than 2 applications per crop season • Do not spray more than 2 applications per crop season • Do not spray to contact cassava, tuber and stem plants as injury may result. • Do not spray under windy conditions. • Do not spray treated area, or feed treated forage to livestock.

Crop	CLIVER Dormant season on established plantings (WA, OR, CO, ID, MT, UT, NV, WY and the counties of Del Norte, Siskiyou, Medoc, Shasta, Lassen, Plumas, Butte and Nevada in CA)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	1 1/2-2 1/4 pints
Minimum Total Spray Per Acre	Ground: 30 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	60
Precautions, Restrictions and Comments	• For desiccation of ryegrass, bluegrass, cheatgrass, dogfennel, chickweed, and hairy woodard. • Use higher rate if cheatgrass is present. • Apply after the last fall cutting when the crop is dormant but before spring growth starts. • Do not apply if regrowth following the last fall cutting is more than 2 inches. • Clover forage present at the time of application will be killed. • Do not pasture animals in treated fields before first cutting. • Do not graze, cut or harvest within 60 days of application. • Do not apply more than once per season.

Crop	BEANS, DRY (Form) Other varieties—Check seed. Carabao beans Lupinus spp (including)—Sweet lupine, White sweet lupine, White lupine, Gran lupine Phaseolus spp (including)—Kudzu beans, Lima beans, Mung beans, Navy beans, Pinto beans, Snap beans, Wax beans Vigna spp (including)—Adzuki beans, Black-eyed peas, Cowpeas
Use Pattern	Harvest-Aid
GRAMOXONE EXTRA Rate Per Acre	1 to 1 1/4 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	7
Precautions, Restrictions and Comments	• Add Spreader (non-aqueous) at 1 quart per 100 gallons of spray mix. • For vining type beans or bush type with leaf growth, use a single application of the higher rate.

Crop	BEANS, DRY (Cont'd)
Precautions, Restrictions and Comments	• May also be applied as a split application. DO NOT make more than 2 applications or exceed a total of 1 1/2 pints per acre. The split application may improve weed coverage. • Apply when the crop is mature and at least 50% of the pods are yellowing and mostly ripe with no more than 40% (bush type beans) or 30% (vine type beans) of the leaves still green in color. • DO NOT apply when weather conditions favor spray drift. A drift control agent may be included to reduce spray drift. • DO NOT use on Faba beans. • NOT REGISTERED FOR USE ON DRY BEANS IN CALIFORNIA.

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Crop	ADZUKI BEAN Preplant or Preemergence
Use Pattern	Broadcast or Banded Over Row
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground: 25 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply prior to emergence of the crop. • Crop plants emerged at time of application will be killed.

Crop	ADZUKI BEAN (Cont'd) Preemergence on established plantings at least 2 years old
Use Pattern	Broadcast or Banded Over Row
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground: 25 gallons
Grazing or Preharvest Interval (Days)	6
Precautions, Restrictions and Comments	• Apply prior to emergence of crop or after last harvest • Crop plants emerged at time of planting will be killed • May be tankmixed with PRINCIP herbicide for residual control. Refer to PRINCIP label for specific directions, limitations, cautions and for a list of weeds controlled.

Crop	ALFALFA (Cont'd) Between cuttings treatment on established plantings (All states East of the Rocky Mountains) (Includes first year alfalfa)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	12 to 15 oz
Minimum Total Spray Per Acre	Ground: 20 gallons
Grazing or Preharvest Interval (Days)	30
Precautions, Restrictions and Comments	• Weeds much beyond the seedling stage and the stubble of weeds cut off during harvest will be less affected by this treatment. • Apply immediately after alfalfa has been removed for hay or silage. • Do not treat more than 5 days after cutting. • CAUTION: First-year alfalfa stands and yields may be reduced if alfalfa is allowed to regrow more than two inches. • Alfalfa forage present at time of application will be killed. • See page 29 for additional precautions.

Crop	ALFALFA (Cont'd) Between cuttings treatment on established plantings (All states East of the Rocky Mountains) (Includes first year alfalfa) (continued)
Precautions, Restrictions and Comments	• In dry areas where moisture is limited, spray coverage may be reduced. • Do not cut or harvest within 30 days of application. • Make 1 to 3 applications, as needed, during the growing season. These sprays may be applied in addition to a dormant application. • For first year alfalfa, do not apply more than twice during the first growing season.

Crop	EASTER LAMBS Field grown
Use Pattern	Preemergence
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Do not apply more than twice per season

Crop	SHADES For seed, for use in seedbed preparation
Use Pattern	Preplant, at Planting
GRAMOXONE EXTRA Rate Per Acre	1 1/2 pints
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Prepare the seedbed and plant seeds to germinate • Apply GRAMOXONE EXTRA when weeds are at the 3 to 5 leaf stage. • Repeat applications as necessary prior to or on the day of seeding • Do not graze treated areas or use the seed or straw from treated areas for animal feed or bedding

Crop	COTTON (Gulf)® Preplant (Tolima with Stolon)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground 20 gallons Air 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Refer to Stolon label for specific use directions and restrictions and weeds controlled

Crop	COTTON (Gulf)® Preplant/Preemergence (Other herbicides)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground 20 gallons Air 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply as a broadcast spray before, during or after planting, but before crop emergence. Other herbicides: • For improved burndown or residual control, GRAMOXONE EXTRA may be tank-mixed with the following herbicides: Cotoran® herbicide (4L only) Karapac®/Dayr® herbicides* Prowl® Zinc® herbicide* Dual® • When tank-mixing with Cotoran 4L, add Dual® desiccating liquid to the tank at 8 oz./100 gallons water prior to adding the Cotoran and GRAMOXONE EXTRA. • When tank-mixing with any of the herbicides listed above, refer to that product's label for specific directions and restrictions and for a list of weeds controlled.

*Not for use in California

Crop	COTTON (Gulf)® Preplant (California only) (Used alone)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	12.8 oz
Minimum Total Spray Per Acre	Ground 20 gallons Air 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• For control of volunteer barley in preformed seedbeds

Crop	COTTON (Gulf)® Preplant or Follow Seed (Tolima with Goal® herbicide)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground or Air 10 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Refer to Goal label for specific use directions and restrictions, and weeds controlled

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Crop	COBBL (Gulf)® Field Corn (Grain, Fodder, Forage) and Popcorn only
Use Pattern	Postemergence Directed Spray, USDA Weeds Eradication Program
GRAMOXONE EXTRA Rate Per Acre	1 1/4 pints
Minimum Total Spray Per Acre	Ground 10 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Include sprays in early July and repeat in early August if regrowth of grassy weeds occurs • Follow application instructions in the postemergence directed spray section on page 29

Crop	COTTON Preplant or Preemergence (Used alone)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground 20 gallons Air 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply prior to, during or after planting, but before crop emergence • For follow seed treatment, seeds should be pre-treated to permit maximum weed and grass emergence prior to treatment • Seeding should be done with a minimum of soil disturbance

Crop	COBBL (Gulf)® Preplant or Preemergence (Type and/or treatment for up to 100% control of all corn)
Use Pattern	Broadcast or Band
GRAMOXONE EXTRA Rate Per Acre	Weeds 1-2" 1 1/4-2 pints Weeds 3-6" 2-2 1/4 pints Weeds 7" 2 1/2-3 pints
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply as a broadcast spray before, during or after planting, but before crop emergence • For improved burndown or residual control, GRAMOXONE EXTRA may be tank-mixed with the following herbicides: 2,4-D Ester* Dual® herbicide* Lasso® herbicide* Metolac® herbicide Atrazine/Atrazine Prowl® herbicide* (Esters)* Lasso® herbicide* Prowl® Roundup®* Stabul®* Griffon®* Lasso® herbicide* S-metolac • GRAMOXONE EXTRA may also be tank-mixed with Atrazine/Atrazine Prowl® herbicide • Refer to respective product label(s) for rates of application, directions for use, limitations, cautions, and for a list of weeds or insects controlled

*Not for use in California

Crop	COBBL (Gulf)® Field Corn, Popcorn, Sweet Corn
Use Pattern	Postemergence Directed Spray Above or Below or Sprinkle with Atrazine
GRAMOXONE EXTRA Rate Per Acre	12.8 oz
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Used alone: • Apply when corn is at least 18 inches tall with tassels arranged to spray no higher than the lower 3 inches of corn stalks. • Corn plants shorter than 18 inches may be injured and not recover (corn height measured from soil surface to top of whorl) • Tank-mix with Atrazine: • Do not mix with Roundup herbicide • For improved control of upright weeds (especially branched weeds), add 4 to 1 lb. Atrazine in a tank-mix. Refer to the Atrazine label for directions, limitations, cautions and for a list of weeds controlled. • Consistent application of Atrazine is necessary at all times • Refer to other precautions, etc., in "Used Alone" section immediately above

Crop	PIPER PEAS (Peas/Rice only)
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	1½ gals
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	80
Precautions, Restrictions and Comments	• Avoid contact with pigweed and soybean • Do not make more than 1 application per season • Do not graze treated areas or feed treated forage to livestock • Canary weeds can be fed to livestock

Crop	PASTURE RESEEDING (Cont'd) South and Southeast
Use Pattern	Broadcast or Banded Over-Run
GRAMOXONE EXTRA Rate Per Acre	12-18 lb. oz.
Minimum Total Spray Per Acre	Ground 20 gallons Air 5 gallons
Grazing or Preharvest Interval (Days)	See specific geographic recommendations
Precautions, Restrictions and Comments	Bermudagrass or Bahiagrass Seals—Late Summer or Early Fall Application for Soil Suppression when Seeding Winter Annuals • Apply in late summer or early fall to soil not exceeding 3 inches in height Bermudagrass Pastures—Dominant Season Suppression of Emergent Weeds • Apply during March • For control of little barley, apply before the mid-bud stage • Do not mow for hay until 40 days after treatment

Crop	PASTURE RESEEDING West of Cascade and Sierra Nevada Mountains For suppression of existing seed and undesirable emerged to seedling weeds and grasses prior to, or at time of, planting of grasses or forage legumes or winter annuals
Use Pattern	Broadcast or Banded Over-Run
GRAMOXONE EXTRA Rate Per Acre	12-24 lb. oz.
Minimum Total Spray Per Acre	Ground 20 gallons Air 5 gallons
Grazing or Preharvest Interval (Days)	See specific geographic recommendations
Precautions, Restrictions and Comments	• Apply in October through December after first fall rains and after weeds have emerged and seed has started new growth • For best seeding results, apply on moderately to heavily grazed areas • Do not use in areas with heavy seed and weed growth

Crop	NONCROP USES
Use Pattern	Broadcast or Spot Treatment
GRAMOXONE EXTRA Rate Per Acre	2-3 gals
Minimum Total Spray Per Acre	Ground 50 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• For use in noncrop areas such as public airports, electric transformer stations, aviation pumping stations, airport commercial buildings, storage yards and other installations, fence lines or similar noncrop areas. • Avoid contact with the foliage of ornamentals or desired plants • Repeat as necessary

Crop	GRASS
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	1½ gals
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Do not graze treated areas or feed treated forage to livestock

Crop	PINEAPPLE
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	1½-2 gals
Minimum Total Spray Per Acre	Ground 50 gallons
Grazing or Preharvest Interval (Days)	20
Precautions, Restrictions and Comments	• Retreatment may be necessary on more mature weeds

Crop	PASTURE RESEEDING (Cont'd) For control of endophyte-fungus-infected forage, legume/grass mixture and other grass pastures
Use Pattern	Broadcast (split application)
GRAMOXONE EXTRA Rate Per Acre	First application 12-24 lb. oz. Second application 12-24 lb. oz.
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Use split applications—10 to 21 days apart if necessary • Do not exceed 3 gals/acre total in application for reseeding • For spring plantings, the initial application of 12-24 lb. oz. may be made the previous fall • Apply when forage is actively growing and no more than 4 inches high • To reduce the incidence of endophyte-infested grass, do not allow forage to go to seed starting with the preceding year's crop

Crop	PASTURE RESEEDING (Cont'd) East of Rocky Mountains
Use Pattern	Broadcast or Banded Over-Run
GRAMOXONE EXTRA Rate Per Acre	12-24 lb. oz.
Minimum Total Spray Per Acre	Ground 20 gallons Air 5 gallons
Grazing or Preharvest Interval (Days)	See specific geographic recommendations
Precautions, Restrictions and Comments	• Use the 24 lb. oz. rate on vigorous or coarse seed species such as bromegrass • See specific directions for use in the South and Southeast for suppression of bermudagrass or bahiagrass seeds • Apply prior to, or at time of, seeding grasses or forage legumes such as alfalfa, clover and birdfoot trefoil • Apply only to grazed or mowed pastures not more than 3 inches in height at time of treatment

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Crop	GRASS (Banded) AND BARK
Use Pattern	Preplant/Preemergence
GRAMOXONE EXTRA Rate Per Acre	2-3 gals
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	80 (CA only)
Precautions, Restrictions and Comments	• Use the higher rate for heavy weed infestations or wild oat control. Apply only one application per season at the 2 gals/acre dosage • Allow maximum weed and grass emergence prior to treatment but apply prior to crop emergence • Apply a maximum of 3 gals/acre per season

Crop	GRASS (Banded) AND BARK
Use Pattern	Preplant/Preemergence
GRAMOXONE EXTRA Rate Per Acre	1½-2 gals
Minimum Total Spray Per Acre	Ground 25 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• For suppression of weeds such as Italian ryegrass, prickly lettuce, groundcover, etc. • Apply when crop is dormant before spring growth begins and when weeds are less than 6 inches tall • Do not apply more than 2 gals/acre per dormant season • May be terminated with Sencor® herbicide (tertiary) weed killer for improved control activity and residual control of Italian ryegrass, prickly lettuce and groundcover. Apply the tank mixture no more than once per season. Refer to the Sencor label for rates, directions, and cautions and for a list of weeds controlled

Crop	SMALL GRAINS (Barley, wheat) Preplant or Preemergence
Use Pattern	Broadcast or Banded Over-Row
GRAMOXONE EXTRA Rate Per Acre	Weeds 1-2": 14-2 pints Weeds 3-4": 3-4 pints Weeds 5": 2 1/2-3 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Do not graze livestock in treated areas at harvest for forage or hay

Crop	SMALL GRAINS (Barley, wheat) Chemical Fallow (Use during fallow periods in wheat-fallow, wheat-corn crop, and continuous wheat cropping systems)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	1 1/4 pints
Minimum Total Spray Per Acre	Ground: 10 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Use higher spray volumes for better coverage in density of stubble, crop residue or weeds present. • The addition of Roundup or 2,4-D may aid in the suppression of emerged perennial broadleaf weeds and large annual broadleaf weeds. • For extended weed control during the fallow period, herbicides with registered residual herbicide combinations are permissible. • Refer to 2,4-D, Roundup or residual herbicide label(s) for directions, limitations, cautions and for a listing of weeds controlled. • Weeds taller than 6 inches may not be controlled.

Crop	SMALL FRUITS (Blackberries, Boysenberries, Raspberries, Blackberries)
Use Pattern	Postemergence, Directed Spray
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground: 50 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply before emergence of new canes or shoots as injury to these canes or shoots can occur. • Apply as a retreat spray to avoid crop injury from fine spray mist.

Crop	SMALL FRUITS (Custard) Strawberries
Use Pattern	Postemergence, Directed Spray
GRAMOXONE EXTRA Rate Per Acre	1 1/4 pints
Minimum Total Spray Per Acre	Ground: 20 gallons
Grazing or Preharvest Interval (Days)	21
Precautions, Restrictions and Comments	• Apply by directing spray between the rows and using shields to prevent spray contact with crop plants or runners. • Do not allow spray to contact strawberry plants or runners as injury or excessive rootburn may result. • Do not apply more than 3 times per season. • Do not graze livestock in treated areas.

Crop	NEWB SODIUM Pines
Use Pattern	See Page 50
Crop	SAFFLOWER Preplant or Preemergence
Use Pattern	Broadcast or Banded Over-Row
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply before, during, or after planting but before crop emergence

Crop	SAFFLOWER (Custard) Preplant (California only)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	12 fl. oz.
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• For control of volunteer barley in preformed seedbeds

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Crop	POTATO (Custard) Preharvest vine killing and weed desiccation (Except Northern Alabama, Counties of Marshall, DeKalb, Jackson and Cherokee)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	12-24 fl. oz.
Minimum Total Spray Per Acre	Ground: 50 gallons
Grazing or Preharvest Interval (Days)	3
Precautions, Restrictions and Comments	• Begin application when leaves begin to turn yellow. • Immature or drought-stressed potato foliage are tolerant to GRAMOXONE EXTRA. Desiccation will not be complete under these conditions. • Use 24 fl. oz./acre rate when quick vine kill is desired. • Use low application of 12 fl. oz./acre when vine growth is dense. Split applications must be applied a minimum of 3 days apart. • See page 61 for additional precautions.

Crop	POTATO (Custard) Preharvest vine killing and weed desiccation (Except Northern Alabama, Counties of Marshall, DeKalb, Jackson and Cherokee) (continued)
Precautions, Restrictions and Comments	• Do not pasture livestock in treated potato fields. • Do not use on fruit or post-harvest to avoid injury to subsequent crops. • DO NOT use to desiccate potato vines when potatoes are to be stored or used for seed as this use may result in tuber decomposition or failure of seed pieces to germinate and grow normally. • Do not exceed 3 pints/acre per season.

Crop	POTATO (Custard) Preplant or Preemergence
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	1 1/4 pints
Minimum Total Spray Per Acre	Ground: 30 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Do not apply later than ground cracking, before potatoes have emerged

Crop	POTATO (Custard) Preplant (California only) (Used alone)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	12 fl. oz.
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• For control of volunteer barley in preformed seedbeds

Crop	SOYBEANS (East)
Use Pattern	Harvest Aid
GRAMOXONE EXTRA Rate Per Acre	12-18 oz
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Intermediate variable: Apply when at least 85% of the seed pods have reached a mature brown color or when seed moisture is 30% or less. • Determinate varieties: Apply when plants are mature, i.e., beans are fully developed, 1/2 of leaves have dropped, and remaining leaves are yellowing. • Immature soybeans will be injured. • Mature soybeans, especially drought-stressed plants, are tolerant to GRAMOXONE EXTRA and desiccation will not be complete. • Do not pasture livestock in treated areas within 15 days after treatment. Remove livestock from treated areas at least 30 days prior to slaughter.

Crop	SOYBEANS (East) Directed Spray
Use Pattern	Preemergence
GRAMOXONE EXTRA Rate Per Acre	24-48 oz
Minimum Total Spray Per Acre	Ground: 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• For control of seedling johnsongrass, crabgrass, goosegrass, brachiaria, barnyard millet and pigweed less than 2 inches tall, use the lower rate of GRAMOXONE EXTRA. • For control of the above grasses up to 4 inches tall or pigweed up to 3 inches tall, use the higher rate of GRAMOXONE EXTRA. • Do not treat if soybeans are less than 6 inches tall.

Crop	SOYBEANS (East)
Precautions, Restrictions and Comments	• The rate of GRAMOXONE EXTRA to be used in these soybean varieties is dependent on seed height and growing conditions. Use the higher recommended rate of GRAMOXONE EXTRA under dry conditions or where the seed canopy is dense. Refer to the specific tankmix herbicide label(s) for rates, directions, limitations, and cautions and for a list of weeds controlled. • The lower rate may be used when weeds are less than 4 inches tall and a selective post-emergence spray or cultivation will be made within 3 weeks after planting. • Seeding should be done with a minimum amount of soil disturbance.

Crop	SOYBEANS (East) (East)
Use Pattern	Preemergence Directed Application
GRAMOXONE EXTRA Rate Per Acre	12-24 oz
Minimum Total Spray Per Acre	Ground: 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply when soybeans are at least 12 inches tall when naturally standing. Do not exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift. • Use precision directed-spray application equipment adjusted so that no more than the lower 3 inches of the soybean seed is contacted by the application spray. • Some crop injury will occur. The degree of injury is related to the precision of application and spraying conditions.

Crop	SOYBEANS (East) (East)
Use Pattern	Preplant/Preemergence, Broadcast or Band Application
GRAMOXONE EXTRA Rate Per Acre	Weeks 1-3: 14-2 pints Weeks 3-4: 2-3 pints Weeks 5: 2 1/2-3 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Seeding should be terminated at the speed of planting as possible to allow maximum seed and grass emergence. • Seeding should be done with a minimum amount of soil disturbance.

Crop	SOYBEANS
Use Pattern	Preemergence, Directed Spray
GRAMOXONE EXTRA Rate Per Acre	See pages 76 and 80
Precautions, Restrictions and Comments	• General Comments: • Apply as a shielded or directed spray to avoid contact with cane foliage to prevent leaf burn and yield reduction. • Make a second and final application, if necessary, when new weed growth is 2-6 inches high. • Do not graze treated areas or feed treated forage to livestock.

Crop	SOYBEANS (East)
Precautions, Restrictions and Comments	• Use precision directed spray application equipment adjusted so that no more than the lower 3 inches of the soybean plant is contacted by the application spray. • Do not exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift. • Some crop injury will occur. The degree of injury is related to the precision of application and spraying conditions. • Do not graze treated areas or feed treated forage to livestock. • If needed make a second and final application 7-14 days later.

Crop	SOYBEANS (East) Tolerant to 2,4-D ester
Use Pattern	Preplant/Preemergence
GRAMOXONE EXTRA Rate Per Acre	Weeks 1-3: 14-2 pints Weeks 3-4: 2-3 pints Weeks 5: 2 1/2-3 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply at least 30 days prior to planting. • Do not use the same formulation of 2,4-D as GRAMOXONE EXTRA activity may be reduced. • May be tankmixed with residual herbicides listed on previous page. • Refer to the 2,4-D ester label for a list of rates, directions, limitations and cautions and for a list of weeds controlled.

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Crop	SOYBEANS																				
Use Pattern	Preplant/Preemergence																				
GRAMOXONE EXTRA Rate Per Acre	Weeks 1-3: 14-2 pints Weeks 3-4: 2-3 pints Weeks 5: 2 1/2-3 pints																				
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons																				
Grazing or Preharvest Interval (Days)	—																				
Precautions, Restrictions and Comments	• Apply as a broadcast spray before, during or after planting, but before crop emergence. • For improved burndown or residual control, GRAMOXONE EXTRA may be tankmixed with the following herbicides: <table border="0"> <tr> <td>2,4-DB</td><td>Goal</td><td>Linear</td><td>Profil</td><td>Turf</td></tr> <tr> <td>Canopy</td><td>Modern</td><td>Lance</td><td>Scout</td><td>herbicide</td></tr> <tr> <td>Dual</td><td>Loose</td><td>Lance Plus</td><td>Sancar</td><td></td></tr> <tr> <td>Garlon</td><td>Loose</td><td>Proflor</td><td>Surf</td><td>herbicide</td></tr> </table>	2,4-DB	Goal	Linear	Profil	Turf	Canopy	Modern	Lance	Scout	herbicide	Dual	Loose	Lance Plus	Sancar		Garlon	Loose	Proflor	Surf	herbicide
2,4-DB	Goal	Linear	Profil	Turf																	
Canopy	Modern	Lance	Scout	herbicide																	
Dual	Loose	Lance Plus	Sancar																		
Garlon	Loose	Proflor	Surf	herbicide																	

*Not for use in California

See page 72 for additional precautions

*Not for use in California

See page 72 for additional precautions

Crop	SOYBEANS (East) (East) Tolerant to 2,4-D
Use Pattern	Preplant or Preemergence
GRAMOXONE EXTRA Rate Per Acre	Weeks 1-3: 14-2 pints Weeks 3-4: 2-3 pints Weeks 5: 2 1/2-3 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• GRAMOXONE EXTRA may be tankmixed with Atrazine for improved burndown or residual weed control. The addition of 2,4-D (ester) may aid in the suppression of perennials and annual broadleaf weeds emerged at the time of application. Refer to the specific tankmix herbicide label(s) for rates, directions, limitations, and cautions and a list of weeds controlled.

Crop	TREES AND VINES (Cont'd)
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground 30 gallons
Grazing or Preharvest Interval (Days)	Refer to other TMI labels
Precautions, Restrictions and Comments	- GRAMOXONE EXTRA may be tankmixed with registered residual herbicides listed below for continued emerged and residual weed control. Always refer to other herbicide label(s) for respective directions, limitations, restrictions, dates and directions for use and weeds controlled. - GRAMOXONE EXTRA may be tank mixed with the following herbicides: - Goal - Devrinol® herbicide - Princap - Serflin - Sekam® herbicide - Karmex

Crop	TREES AND VINES (Cont'd)
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	3 pints
Minimum Total Spray Per Acre	Ground 50 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	- Do not allow spray to contact green stems, fruit or foliage. - Do not graze treated areas. - Do not feed cover crops grown in treated areas to livestock. - For mature woody weeds, late-germinating weeds and grasses, and perennials, retreatment or spot spraying may be necessary.

Crop	TREES AND VINES
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground 30 gallons
Grazing or Preharvest Interval (Days)	See Fruit: 14 Pistachios: 7 All Others: —
Precautions, Restrictions and Comments	- Do not allow spray to contact green stems (except suckers), fruit or foliage. - Use a shield or wrap plant when spraying around young trees or vines. - Do not graze treated areas. - See page 85 for additional precautions.

Crop	TREES AND VINES (Cont'd)
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground 30 gallons
Grazing or Preharvest Interval (Days)	See Fruit: 14 Pistachios: 7 All Others: —
Precautions, Restrictions and Comments	- Do not allow spray to contact green stems (except suckers), fruit or foliage. - Use a shield or wrap plant when spraying around young trees or vines. - Do not graze treated areas. - See page 85 for additional precautions.

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Crop	SUNFLOWER (Cont'd)
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	1-1½ pints
Minimum Total Spray Per Acre	Ground 20 gallons Air 5 gallons
Grazing or Preharvest Interval (Days)	7
Precautions, Restrictions and Comments	- Apply when sunflower seeds reach physiological maturity (when seed moisture is 35% or lower). For many varieties, this corresponds to the time when the back of the heads are yellow and the bracts are turning brown. - Do not graze treated areas or feed treated forage to livestock. - Use the higher rate when crop stands or weed infestations are heavy.

Crop	TAKE, DRYLAND (Hawaii only)
Use Pattern	Postemergence, Directed Spray
GRAMOXONE EXTRA Rate Per Acre	1½-2½ pints
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	180
Precautions, Restrictions and Comments	- Do not allow spray to contact the crop plants as injury may result. - Make the first application when weed growth is 1 to 4 inches high. - Weeds emerging after the application will not be controlled. - A single re-treatment may be made, however, do not harvest dryland take within 6 months of the last application.

Crop	SUBSARICANE (Cont'd)
Use Pattern	Harvest Aid
GRAMOXONE EXTRA Rate Per Acre	7-12 fl. oz.
Minimum Total Spray Per Acre	Air 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	- Use higher rate under cool, cloudy weather conditions. - Apply 3-14 days before burning and harvest. - See page 77 for additional precautions.

Crop	SUNFLOWER
Use Pattern	Preplant or Postemergence
GRAMOXONE EXTRA Rate Per Acre	Broadcast or Banded Over Row
Minimum Total Spray Per Acre	Ground 20 gallons Air 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	Apply before, during, or after planting but before crop emergence.

Crop	SUBSARICANE (Cont'd)
Use Pattern	Postemergence, Directed Spray
GRAMOXONE EXTRA Rate Per Acre	1½ pints
Minimum Total Spray Per Acre	Fluride Ground 50 gallons House Ground 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	- For optimum results, apply in early spring (March-April) when weeds are small. - Do not apply after June 1 as cane growth may be stunted and yields reduced. - Do not apply after cane roots have died. - See page 77 for additional precautions.

Crop	SUBSARICANE (Cont'd)
Use Pattern	Postemergence, Directed Spray
GRAMOXONE EXTRA Rate Per Acre	1-2 pints
Minimum Total Spray Per Acre	Ground 20 gallons
Grazing or Preharvest Interval (Days)	30
Precautions, Restrictions and Comments	- For tiller control, apply when tillers are less than 16 inches high. - Use the higher rate for heavier weed infestations or tiller growth. - See page 77 for additional precautions.



Crop	VEGETABLES (Cont'd) Rhubarb
Use Pattern	Dormant
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground: 50 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply during dormant season before buds or green begin to grow. • Do not make more than 2 applications per season.

Crop	VEGETABLES (Cont'd) Sweet Corn
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	12.5 fl. oz.
Minimum Total Spray Per Acre	Ground: 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Apply when corn is at least 10 inches tall. Arrange nozzles to spray no higher than the tassel 3 inches of the corn plant. • Corn plants shorter than 10 inches may be injured and not recover (corn height measured from soil surface to top of whorl).

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Crop	VEGETABLES (Seeded or Transplanted) Beans* (Lima, Snap, Broad), Cabbage*, Cauliflower*, Carrots*, Chinese Cabbage*, Cucumber*, Eggplant*, Lettuce*, Melon*, Peas*, Peppers*, Pumpkin*, Squash*, Sugar Beans, Sweet Corn*, Turnips*, Tomatoes*, Watermelons
Use Pattern	Preplant, Preemergence
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Seedbeds or plantbeds should be formed as far ahead of treatment as possible to permit maximum weed emergence. • Applications can be made as a band or broadcast treatment before, during or after planting but prior to the crop emergence. • Use the higher rate for heavier weed infestations. • Seeding or transplanting should be done with a minimum amount of soil disturbance. • Crop plants emerged at time of application will be killed. *Ground application only

Crop	TREES AND VINES (Cont'd) Passion Fruit
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	3 pints
Minimum Total Spray Per Acre	Ground: 50 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Use a shield or wrap vine if bark is still green at application time. • If application is to be made during harvest season, pick all fruit off the ground prior to application. • Do not allow animals to graze on treated areas. • Retreatment ** spot treatment may be necessary.

Crop	TREES AND VINES (Cont'd) Hops (D. O. and non D. O.)
Use Pattern	Directed Spray and/or Soaking and Stripping
GRAMOXONE EXTRA Rate Per Acre	1 1/4 pints
Minimum Total Spray Per Acre	Ground: 70 gallons
Grazing or Preharvest Interval (Days)	14
Precautions, Restrictions and Comments	• Do not apply to hop vines less than 6 feet tall. • Retreatment or spot treatment may be necessary. • Do not apply more than 3 times per season. • Do not allow spray to contact green stems, foliage, flowers or cones as injury may result. • Do not allow animals to graze on treated hopvines. • Hop vine refoliation and regrowth may be delayed. • For soaking and stripping, spray only the basal 2 feet of the vines. Repeat as necessary. See page 59 for additional precautions.

ALPHA
New Seedlings - Suppression and control of
broadleaf weeds and grasses in new alfalfa and
legume pastures for hay (California only).

Per Acre	Per Acre	Per Acre
Control	Suppression	Control
Alfalfa (4 in. tall or less)	8 fl. oz.	1 pint
Alfalfa (6 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (8 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (10 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (12 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (14 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (16 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (18 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (20 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (22 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (24 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (26 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (28 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (30 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (32 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (34 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (36 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (38 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (40 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (42 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (44 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (46 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (48 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (50 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (52 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (54 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (56 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (58 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (60 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (62 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (64 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (66 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (68 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (70 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (72 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (74 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (76 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (78 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (80 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (82 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (84 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (86 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (88 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (90 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (92 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (94 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (96 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (98 in. tall or less)	6 fl. oz.	1 1/2 pints
Alfalfa (100 in. tall or less)	6 fl. oz.	1 1/2 pints

Do not use the 8 fl. oz. rate unless the alfalfa has
at least 3 inches of growth. The 12 fl. oz. rate unless
the alfalfa has 6 inches of growth, or unless
12 fl. oz. unless there are 6 inches of growth.

Crop	VEGETABLES (Cont'd) (California only) Lettuce, Melon, Sugar Beets, Tomatoes
Use Pattern	Broadcast
GRAMOXONE EXTRA Rate Per Acre	12.5 fl. oz.
Minimum Total Spray Per Acre	Ground: 20 gallons Air: 5 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• For control of volunteer barley in preformed seedbeds.

Crop	VEGETABLES (Cont'd) Tomatoes, Peppers (Hot, Sweet, and Mild), and Squash (and the Western Border of Texas)
Use Pattern	Directed Spray
GRAMOXONE EXTRA Rate Per Acre	1 1/2 pints
Minimum Total Spray Per Acre	Ground: 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• For control or suppression of emerged weeds between rows after crop establishment. • Use precision directed spray application equipment adjusted to prevent spray contact with crop plants. Do not exceed 30 psi nozzle pressure or spray under conditions which may cause excessive drift. • Apply when weeds are succulent and weed growth is less than 6 inches. • Do not apply more than 3 applications per season. • Do not allow animals to graze in treated areas.

Crop	TYTOB (New Hampshire only)
Use Pattern	Preplant, Preemergence
GRAMOXONE EXTRA Rate Per Acre	2-3 pints
Minimum Total Spray Per Acre	Ground: 20 gallons
Grazing or Preharvest Interval (Days)	—
Precautions, Restrictions and Comments	• Seeding should be done with a minimum of soil disturbance. • Weeds and grasses emerging after treatment will not be controlled. • Crop plants emerged at time of application will be injured.

Crop	TREES AND VINES (Cont'd) Hops (D. O. and non D. O.) (Continued)
Precautions, Restrictions and Comments	• Experience with varieties other than CASCADE, MAXIMA CLUSTER, and BULLION is limited. If using GRAMOXONE EXTRA on other varieties than those listed, test the one pattern on a small number of vines of each variety to determine sensitivity to injury. Do not use on untreated varieties if unacceptable crop injury occurs.

RESIN SOAKING

Pinus (loblolly, Shortleaf, Longleaf, Slash, Virginia, Pond, Pitch, and Spruce Pines).

Tree Selection—Select trees to be treated from stands on sites not subject to periods of extreme drought stress, as the desiccating effect of GRAMOXONE EXTRA herbicide to girdle is accentuated during such periods, causing a reduction in the amount of chlorophyll deposited in the xylem. Select trees to be treated from vigorous, non-stagnant stands, either natural or planted, in assigned stands or commercial timber stands, plan treating with GRAMOXONE EXTRA herbicide not sooner than three years after a commercial thinning.

Application Directions—Apply GRAMOXONE EXTRA herbicide diluted in water (0.2% to 5% solution, wt./wt. basis, depending on the type of treatment method) to a suitable wound in the tree trunk to bring the treatment into contact with the xylem (sapwood). One of the following methods may be used:

Bark Girdling or Cuts—This type of wound is made using a standard or rotary bark hack or a chainsaw chipping tool employed in normal storm work to remove a single one-inch wide streak of bark about 1 to 2 feet from ground level.

The total length should not exceed 10 or the tree circumference. Multiple girdles or cuts may result in serious girdling of the trunk and premature death of the tree. A dilute spray (about 2 to 6 ml.) of GRAMOXONE EXTRA herbicide solution (1% to 5% solution, wt./wt. basis) should be applied to runoff to the exposed xylem, using a plastic bag bottle or a low-pressure sprayer. Wear rubber gloves when using the acid bottle. The amount of

Time of Treatment: Resin soaking can occur from treatment made any time of the year; however, cool season treatments under non-drought conditions usually result in less severe pine beetle infestations and longer life life.

Interval Between Treatments and Tree Harvest—The interval between application of GRAMOXONE EXTRA herbicide and tree harvest should be a minimum of 6 months and preferably from 12 to 24 months. Intervals of over 6 months may not be possible under conditions of drought or serious pine beetle attacks, which may make early harvest necessary. The GRAMOXONE EXTRA herbicide treatment may encourage beetle attack, or may cause premature death of the tree. Dehydration of the xylem tissue, rather than the desired resin soaking, may occur, and is more likely at higher dosage rates.

STORAGE AND DISPOSAL

PRECAUTIONS

Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

STORAGE

Store at temperatures above 32°F. Do not contaminate feed, foodstuffs or drinking water. Do not store near by feed or food, or transport in or on vehicles containing foodstuffs or feeds.

For help with any spill, leak, fire or exposure involving this material, call CHEMTREC 1-800-424-9300.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Triple rinse (or equivalent). Do not reuse container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or dispose of by other procedures allowed by state and local authorities.

spray required per cut depends on tree circumference and the length of cut or streak (1% to 5% solution). For a 6-inch diameter tree, 3 ml. of spray will cover the 1-inch wide streak. Using 3 ml. of a 2% or 4% GRAMOXONE EXTRA herbicide solution will result in application of 60 or 120 mg. GRAMOXONE EXTRA herbicide per streak.

Tree Injection—Pressure injections of 1% to 4% GRAMOXONE EXTRA herbicide solution (calson, wt./wt. basis) should be applied beneath the bark and just beneath the cambium layer. Injections should be made 1 to 2 inches apart around 1/4 of the tree circumference at no closer than 3 inches apart all around the tree. From 0.2 ml. to 0.4 ml. of GRAMOXONE EXTRA herbicide solution is applied per injection. Using 2% to 4% GRAMOXONE EXTRA herbicide solution, the results in 38 to 144 mg. GRAMOXONE EXTRA herbicide applied per 6-inch diameter tree, for holes spaced 1 inch apart around 1/4 of the tree or 3 inches apart all around the tree.

Bore Holes—1/4 to 3/4 inch diameter holes 2 to 6 inches deep, depending on the tree diameter are bored sloping slightly downward and tangentially inward rather than directly towards the center of the tree. Solutions of 0.2% to 5% GRAMOXONE EXTRA herbicide can be used. Lower concentrations (0.2%) are usually applied at higher volumes of 15 to 25 ml. per tree, resulting in application of 45 to approximately 100 mg. GRAMOXONE EXTRA herbicide per tree. Using 2% to 4% solutions and applying 5 ml. per single hole per tree results in application of 100 to 200 mg. GRAMOXONE EXTRA herbicide per tree. Bore hole applications in the range of 45 to 100 mg. GRAMOXONE EXTRA herbicide per tree have resulted in effective chlorophyll reduction.

Effect on Stem Growth

GRAMOXONE EXTRA herbicide treatment can result in reduced stem growth during the interval between treatment and tree harvest.

Dilution Table for GRAMOXONE EXTRA Herbicide (2.8 lb. calson per gallon)

Concentration of Calson (wt./wt. Basis)	% in Gallon of GRAMOXONE EXTRA Herbicide Add the Following No. Gallons of Water
0.2%	118.8
0.5%	48.8
1.0%	22.9
2.0%	10.9
3.0%	6.9
4.0%	4.9
5.0%	3.7

Conversion Table

GRAMOXONE EXTRA Herbicide to Be Applied	lb. a.i.A.
2.8 lb. a.i.A.	0.48
4.8 lb. a.i.A.	0.78
6.8 lb. a.i.A.	1.17
8.8 lb. a.i.A.	1.57
10.8 lb. a.i.A.	1.96
12.8 lb. a.i.A.	2.35
14.8 lb. a.i.A.	2.74
16.8 lb. a.i.A.	3.13
18.8 lb. a.i.A.	3.52
20.8 lb. a.i.A.	3.91
22.8 lb. a.i.A.	4.30
24.8 lb. a.i.A.	4.69

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