

DANGER

Can Kill if Swallowed. May us Harmful or Fatal If Absorbed Through Skip or Inhaled, Harmful to Skin and Eves.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED

IMMEDIATELY induce vomiting by locarting finger in threat. Administer fluids and induce further vomiting Get to a hospital or physician fast. PROMPT TREATMENT IS ESSENTIAL and must be instituted before store and symptoms of loury appear. Hote to Physicians: Call ICI Americas Inc. 302/575-3000 at any hour to obtain foulcology and medical management consultation, a supply of bentonite city, and paragual analysis. Symptoms following ingestion may be delayed up to 3 days. To be effective, treatment for paraquet poisoning must begin this ESNATELY. Treatment consists of binding paraqual in the gut with suspensions of benfonte clay or charcoal and removal of paragual from the blood by prelonged charcoel hemoperfusion or continuous hemodelysis.

SKIN CONTACT

IMMERIATELY wash with soap and water. Remove and wash all contaminated clothing with soap and hot water before rause. Protoroed contact will cause severe imitation. Contact with initiated skin, or a cut, or repeated contact with letact skin may result in poleonies.

EYE CONTACT

THE MESTATELY wash eyes with water for at least 15 minutes and get medical attention. Contact may cause eye injury.

INHALATION

I III M EDIATELY get away from soray mist. Exposure may cause initation, nose bleeds and may lead to polsoning. Stop and check spray procedure. Follow Worker Salety Rules on side panel.

CONDITIONS OF SALE: 1, K'i Americae Inc. (ICIA) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed hereon. ICIA neither makes, nor subnotizes any signal or representative to make, any other warranty of FITNESS or of MERCHANTASILITY, guerantee or representation, superiors or implied, concerning this material.

2. Critical and unforeseeable factors beyond ICIA's control prevent it from eliminating sit risks in connection with the use of chemicals. Such risks include, but are not limited for damage to plants and crops to which the material is applied, lack of own pitted control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated hereon and even though label directions are followed. Buyer and user actionwisely is not assume all risks and ill ability (except those sessioned by ICIA under 1 above) resulting from handling, storage and use of this material.

POISON DO NOT BEMOVE CONTENTS EXCEPT FOR IMMEDIATE USE.



NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.

READ DANGER STATEMENTS AND WORKER SAFETY RULES ON SIDE PANELS.

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

A Word and Grass Killer - Harvest Ald Chemical

Contains Stench (Odor) and Emetic

RESTRICTED USE PESTICIDE

For retail sale to and ue, only by Cartifled Applicators or persons under their direct supervision and only for these uses covered by the Cartifled Applicator's serviceston.

Partent Spilipide (1.1'-Seatte) 20.4 % last ingredients: 79.6 7. Teleb 180.0%

Collins i. 5 in Personal entire per gollen.

KEEP OUT OF REACH OF CHILDREN. DO NOT USE OR STORE IN OR AROUND THE HOME.



DANGER: ONE SWALLOW CAN KILL!

MET CONTENTS

ACCEPTED AUG 2 2 1986 Under the Federal ! Pangi ide, an ! Reas arreaded for the per mas Fregierered under EPA Reg 110 10152-103

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 warrings READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL

HOTE: Do Not Use Areusé Home Cardess, Schools, Recreational Parks or Playgrounds.

Refer to Supplemental Pamphiet for Use Directions.

WORKER SAFETY RULES/REENTRY STATEMENTS

DO NOT get on skin, eves or clothing.

DO NOT inhale spray mist.

WASH SPLASHES from skin and eyes immediately.

REMOVE and wash contaminated clothing.

WASH before eating, smoking and drinking.
WEAR full face shield, rubber gloves and apron and waterproof foot-

wear when handling or mixing concentrate. WEAR waterproof Tootwear and clothing when spraying or when

contacting vegetation wet with spray.

DO NOT enter treated areas without protective clothing until sorays

AVOID working in spray mist. If there is risk of exposure wear googles and approved face mask capable of filtering spray (troplets. KEEP all upprotected persons out of operating areas or vicinity where there may be

Certain states may require more restrictive reentry intervals; consult your State De-

partment of Agriculture for further information.

Written or oral warmings 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

IMPORTANT: The effect of swallowing Paraguat Is far more severe than that which usually results from skin contact or inhalation of spray mist. No opportunity for mist or product to cause serious injury or death should arise when used in strict compliance with these rules but the opportunity may arise in case of gross violations so strictly follow all these rules as if your life depends on it.



(C) |C| Americas Inc. Agricultural Chemicals Birdson Warnington, Delaurura 19697

EPA Reg. No. 10/82 -EPA Est.

ENVIRONMENTAL SAFETY CAUTIONS

This product is toxic to wildlife. Birds and other wildlife in treated areas may be killed. De not apply directly to water.

GRAMOXONE SUPER is a contact herbicide that kills all green plant lissue. 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.

CHEMICAL HAZARD

This product reacts with aluminum to produce hydrogen gas which may form a highly com-bustible 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 distrion with water to spray concentrations, spray sys-tems made of, or containing aluminum parts may be used but should not be used for ex-tended (overnight) storage.

EQUIPMENT/CONTAINERS

Flush all spray equipment with water after use each day, GRAMOXOME. Supera is corre-sive to aluminum. Aluminum spray equipment and aluminum alcaraft structures that are exposed to spray solution or spray drift should be flushed thoroughly with water immediately. after use.

STORAGE AND DISPOSAL

PROHIBITIONS Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited. \$10RAGE

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 spail, leak, line or exposure involving this material, call CHANTAEC BOO! 929 - 9300.

PESTICIDE DISPOSAL

This product is acutely hazardous. Improper disposal of excess pesticide, spray mixture, or risate 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 guiderice.
CONTAINER DISPOSAL

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



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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.

POISON DO NOT POUR FROM ORIGINAL CONTAINER EXCEPT FOR IMMEDIATE USE.



SUPPLEMENTAL PAMPHLET
DIRECTIONS FOR USE
READ WORKER SAFETY RULES

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

May Be Harmful or Fatal If Absorbed Through Skin or Inhaled. Harmful to Skin and Eyes.

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

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED

IMMEDIATELY induce vomiting by inserting finger in throat. Administer fluids and induce further vointing. Get to a hospital or physician last. PROMPT TREATMENT IS ESSENTIAL and must be initiated before signs and symptoms of injury appear. Note to Physicians: Call and must be initiated before signs and symptoms of injury appear. Note to Physicians: Call ITEL Amaricae Inc. 302/505-3000 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.

SXIN CONTACT

IMMEDIATELY wash with soap and water. Remove and wash all contaminated clothing with soap and hot water before reuse. Prolonged contact will cause severe irritation. Contact with irritated skin, or a cut, or repeated contact with intact skin may result in poisoning.

EYE CONTACT

IMMEDIATELY wash eyes with water for at least 15 minutes and get medical attention. Contact may cause eye injury.

INHALATION

IMMEDIATELY get away from spray mist. Exposure may cause irritation, nose bleeds and may lead to poisoning. Stop and check spray procedure. Follow Worker Salety Rules on page 21.

WASH AND DESTROY CONTAINER WHEN EMPTY, NEVER REUSE.

TO PREVENT ACCIDENTS, NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.

DO NOT USE OR STORE IN OR AROUND THE HOME KEEP OUT OF REACH OF CHILDREN

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A Weed and Grass Killer • Harvest Aid Chemical.

. Contains Stench (Odor) and Emetic

Active lagredient Paraquat dichloride (1,1°-dimethyl-4,4°-bipyridimum linert lagredients	By Wt 20.47.	
Inert Ingredients		<u>79.6</u> %
generation and an ender the fauter	Tatal	100 254

765/6

- - GRAMOKONE applications are more effective when applied to weed vegetation that is not drought stressed. Reduced results may occur when weeds to be treated are heavily covered with dust

Rates

1/2 to 22/3

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. READ DANGER AND FIRST AID TREATMENT ON INSIDE FRONT COVER AND WORKER

SAFETY BULES

NOTE: Do Not Use Around Home Gardens, Schools, Recreational Parks, or Playgrounds. Do not combine GRAMOXONE paraquat with liquid fertilizer solutions except as specified

00 NOT combine with suspension type liquid fertilizers as the activity of paraguat will be reduced.

Use ORTHO X-77** Spreader (non-ionic). ORTHO X-77 Spreader is recommended, but a sunilar and suitable non-sonic surfactant may be substituted.

Do not use dirty or muddy water for GRAMOXONE paraguat dilution as GRAMOXONE paraqual will be macrivated.

DIRECTIONS

PREPLANT OR PREEMERGENCE USES

PREPLANT OR PREEMERGENCE USE-for Kill of Energed Annual Broadle at Woods and Grasses and for Top Kill and Suppression of Perennials - Apply when the weeds and grasses are succulent and growth is from 1" to 6" high (larger plants are less affected by this treatment). Note: To prevent injury to germinating crop seedings, do not apply preplant or preemergence to soils lacking clay minerals, i.e., peat, muck, pure sand, artificial olanting media

ALFALFA, CORN. LETTUCE, MELONS, PEPPERS, SORGHUM, SUGAR BEETS, TOMATOES, SAFFLOWER AND SUNFLOWER: Preplant or Preplant or Preplant — Apply No Wats. GRAMOXONE paragual per sprayed acre as a band treatment over the grop row, or as a broadcast treatment, prior to, during, or after planting — but before emergence of the crop. Aerial Application -- 5 to 10 gals, water per acre. Ground Application -- Use 20 to 60 gals. diluted spray. Add ORTHO X-77 Spreader (non-tonic) at 8 to 32 ff. oz. per 100 gals, of diluted spray. Seedbeds should be formed as lar 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.

Introductions supplementalished, a number of chemicals manufactured by companies other than ICI Americas Inc.
are menboared they are not carefully an extensiva and include
AURIK K*—Rug LLI of LIBA GELGY Corp.
BRAVIX*—Rug LLI of Shell Climacal Company,
DUAY*—Rug LLI of Shell Climacal Company,
DUAY*—Rug LLI of Shell Climacal Company,
ICRAM*—Rug LLI of Clifa GELGY Corp.
LASSO*—Rug LLI of Clifa GELGY Corp.
LASSO*—Rug LLI of LLI du Panti de Nimours & Co. Inc.
LORIN*—Rug LLI of LLI du Panti de Nimours & Co. Inc.
LORIN*—Rug LLI of LLI du Panti de Nimours & Co. Inc.
PRINCEP*—Rug LLI of LLI du Panti de Nimours & Co. Inc.
PRINCEP*—Rug LLI of LLI du Panti de Nimours & Co. Inc.
PRINCEP*—Rug LLI of LLI du Panti de Nimours & Co. Inc.
SINCIR*—Rug LLI of LLI du Panti de Nimours & Co. Inc.
SINCIR*—Rug LLI of LLI du Panti de Nimours & Co. Inc.
SUNI LAN*—Rug LLI of LLI du Panti Company,
SINCIR*—Rug LLI du Panti Company,
SINCIR*—Rug LLI du Panti

Please consult each apprepriate label for specific use recommendations

Por added residual control of weeds, tank mix Paraquat - ___ GOAL - Reg. TM of Rohm and Haas Co. at the above rates with BLADEX® 80 W, 90 DF or 4 L at the rates listed on the BLADEX label. Consult the BLADEX label for weed species, timing, rates and environmental factors relative to BLADEX efficacy.

BLADEX® - Reg. TM of Shell C' i Co.

ASPARAGUS: Proplant or Proomergence - Apply to GRAMOXONE paraqual per sprayed acre as a band treatment over the row or as a broadcast treatment prior to, during, or after planting, but before emergence of the crop. Add ORTHO X-77 Spreader (non-world) at 8 to 32 fl. oz. per 100 gals, spray. Apply 50 to 100 gals, spray per acre. Allow maximum weeds and grass amergence prior to treatment. Seeding or transplanting should be done with a nuncrum of soil disturbance. Weeds and grasses emerging after treatment will not be

ASPARAGUS [Plantings Established 2 Years or More]: Proomergence — Apoh / \$102 70ts. GRAMDXONE paraguat per sprayed acre in 25 to 100 gals, of spray mix. Apply as a band treatment over the row or as a broadcast application prior to emergence of the crop and/ or after the last harvest. Add ORTHO X-77 Spreader (non-lonic) at 8 to 32 ft. oz. per 100 gals. of spray mix. For residual control add 21/3 to 5 lbs. PRINCEP®® 80 W as a tank mix. Refer to PRINCEP 80 W label for specific recommendations and cautions. Crop plants emerged at time of application will be severely injured. Do not apply within 6 days of harvest.

BARLEY, WHEAT: Proplant or Proomergence Treatment — Apply/1/1097/pts. GRAMOXONE paraqual per sprayed acre as a band treatment over the crop row, or as a broadcast treatment prior to, during, or after planting — but before emergence of the crop. Aerial Application — 5 to 10 gals, water per acre. Ground Application — Use 20 to 60 gals, diuted spray. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 ff. oz. per 100 gals, of diluted spray. 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 may be killed. Do not graze is estock in treated area.

BEANS (LIMA, SNAP), BROCCOLI, CABBAGE, CARROTS, CAULIFLOWER, CHINESE CAB-BAGE, COLLARDS, CUCURBITS (WATERMELON, CANTALOUPE I MUSKMELON, PUMPKIN, SQUASH, CUCUMBER), EGGPLANT, PEAS, TURNIP: Preplant and Premorgance Treatment—Applying this GRAMOXONE paraguat per sprayed acre as a band treatment over the crop row, or as a broadcast treatment before, during or after planting-but before amergence of the crop. Use sufficient water to give thorough coverage. Add DRTHD X-77 Spreader (non-ionic) at 8 to 32 ff. oz. per 100 gals, diluted spray. Use the higher rate with heavier weed inlestations. 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. Weads and grasses emerging after application will not be controlled. Crop plants emerged at time of application will be falled.

COTTON: Preplant Treatment - Apply 1102 dis. per acre as a single broadcast application in 20 to 60 gals, water by ground application or in 5 to 10 gals. by air. Beds should be preformed to permit maximum weed and grass emergence prior to treatment. Seeding should be done with a minimum amount of soil disturbance. Weeds and grasses emerging after application will not be controlled. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 fl. oz. per 100 gals, spray.

Tank Mix with GOAL* 1.6 E (Preplant or Fallow Bed Treatment): Apply 1/2 t. 5% of. GRAMwan with 1.25 to 2.5 pts. GOAL 1.6 E for each acre treated. Apply in a minimum of 10 gats, of water per acre. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 (l. oz. per 100 gals, diluted spray, Refer to the respective labels for recommended growth stages of susceptible weeds and for specific use restrictions.

Easter Lilies (Field Grown): Preemergence — Apply 110 2 qts. per sprayed acre in 20 to 50 gals, of spray mix. Apply as a band trealment over the row or as a broadcast application prior to crop emergence. Do not apply more than twice per season. Likes emerged at time of application will be severely injured. Add ORTHO X-7/ Spreader (non-ionic) at 8 to 16 fl. oz/100 gals.

1/3 + 243

143 to 243

11/3 +. 23/3

1/3 to 22/3

ONIONS (Seeded) For Green or Dry Bulb Harvest: Preplant and Preemergence -- Apply 19: toll dis. GRAMOXUNE paragual per sprayed acra as a broadcast treatment prior to, during or after planting, but before emergence of the crop. Use the high rate for heavier was dinfastations and for control of Wild Oats. Add ORTHO X-77 Spreader (non-soruc) at 8 to 32 ll. oz.

2 3/3

per 100 gals, spray Apply in 20 to 100 gals, water per acre. Allow maximum weed and grass emergence prior to treatment. Seeding should be done with a minimum of soil disturbance. Weeds and grasses emerging after treatment will not be controlled. Crog plants emerged at time of application will be injured. Maximum of one application at the lots, per acre dosage. Do not apply within 60 days of harvest. In California -- Do not apply within 200 days

1/3 to 2 3

POTATOES (Preplant or Preemergence Treatment) — Apply 10 2 pts GRAMOXONE para-qual per acre as a broadcast application in 30 to 100 gals, water by ground application, or in 5 to 10 gals, by air. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 ft. oz. per 100 gals, of diluted spray. The application should be delayed to provide maximum weed and grass emergence but should be applied not later than ground cracking, before potatoes have emerged. Application made after crop emergence has reduced yields of certain sensitive varieties. Weeds and grasses emerging after application will not be controlled. Postemergance management should be performed as required to control subsequent weed and grass emergence.

43 to 1/3

1 1/3

FOR KILL OF EMERGED VOLUNTEER BARLE" (California Only) — Preplant in Cotton, Potato, Lettuce, Melon, Salflower, Sugar Beet, and Tomato Fields — Apply of to lot. GRAMOXONE paraquat per acre broadcast as a preplant treatment to preformed seedbeds. Aerial Application — Use 5 to 10 gals, water per acre. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 II. oz. per 100 gals, diluted spray,

SEEDBED PREPARATION FOR ESTABLISHING GRASSES FOR SEED PRODUCTION: To Control Grasses and Broadleaf Woods - Prepare the seedbed and allow weed seeds to germinate. When broadleaf weeds and annual grasses are at the 3 to 5 leaf stage apply but. GRAMOXONE paraquat in 20 to 40 gals, water per acre (larger weeds will be less affected by this treatment) Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 fl. oz. per 100 gals, diluted spray. This treatment can be repeated prior to or on day of seeding. Do not allow animals to graze on treated areas. Do not use seed from treated areas for animal feed. Do not use straw from treated areas for animal bedding or feed.

CONSERVATION TILLAGE USES

GRAMOXONE paraquat and GRAMOXONE paraqual tank mixes may be applied in liquid nitrogen and/or complete liquid fertilizer solutions (follow label recommendations for crop shvolved) when 20 to 60 gals, of driute solution are applied per acre to combination with 1 to 2 pts. of ORTHO X-77 Spreader (non-ionic) per 100 gals. Equipment must be adjusted and calibrated to obtain thorough coverage of undestrable vegetation. Inadequate coverage and/or the absence of ORTHO X-77 Spreader (non-tonic) will result in a severe reduction of GRAMOXONE paraquat activity. Phosphate containing liquid fertilizer solutions will reduce the activity of GRAMOXONE paragual. When liquid fertilizer solutions containing phosphorus are used with GRAMOXONE paraquat, and a more rapid kill is desired, use the high GRA-MOXONE paraquat label rate.

CORN ONLY: For Kill of Existing Vegetation and Residual Weed Control Where Corn Will Be Planted Directly into a Cover Crop, Established Sod, or in Previous Crop Residues, Tank-Mix with Atrazine:

Apply 10 2 pts. GRAMOXONE paraguations 2% to 3% lbs. Atrazine 80 Wettable per acre. as a broadcast spray Refer to Atrazzie 80 Wettable label for directions, limitations, and cautions. Apply 20 to 60 gals diluted spray per acre. Add ORTHO X-77 Spreader (non-ionic) at 8 ft. oz. per 100 gals, diluted spray. Add Atrazine to spray tank first, moung thoroughly in water. Then add GRAMOXONE paraguat and surfactant. Constant acutation recommended

Tank Mix with AATREX** 80 W and PRINCEP 80 W:

Apply/8103 bs. GRAMOXONE paraguat plus 11/4 to 21/3 bs. PRINCEP 80 W plus 11/4 to 21/4 lbs. AATREX 80 W per sprayed acre prior to, during, or after planting - but before crop. emergence. Use the low rates of PRINCEP 80 W and AATREX 80 W on boht soils, and the higher rates on heavy clay soils. Use 20 to 60 gals, of diluted spray per sprayed acre. Add ORTHO X-77 Spreader (non-ionic) at 8 fl oz. per 100 gals diluted spray. Add the AATREX 60 W to the spray tank while agitating, then add the PRINCEP 80 W. GRAMOXONE paraquat, and ORTHO X-77 Spreader (non-ionic). Continue agitation during application, Refer to the AATREX 80 W and PRINCEP 80 W labels for specific precautionary statements.

Task Mix with BLADEX ** 80 W: Apply()(to 7 pts. GRAMOXONE paraquat plus 1½ to 5 lbs. BLADEX 80 W, depending on soil type, as a broadcast spray. Apply 20 to 60 gals, diluted spray per acre. Add ORTHO X-77 Spreader (non-ionic) at 1 qL per 100 gals, diluted spray, Add BLADEX 30 W to spray tank first, mixing thoroughly in water. Then add GRAMOXONE paraguat and surfactant. Constant agrtation recommended at all times. Do not mix with liquid fertilizer, Refer to BLADEX 60 W Jabel

for directions, limitations and cautions. Tank Mix with LASSO ** and Atrazine:

Apply \$103 Dis. GRAMOXONE paraquat (0.25 to 0.5 lb. active) skus 4 to 6 pts. LASSO (2.0 to 3.0 lbs. activa), plus 1.25 to 25 lbs. Atrazine 80 Wettable (1.0 to 2.0 lbs. activa) per treated acre prior to, during, or after planting, but before crop emergence. Use 20 to 60 gals, of diluted spray per treated acre. Add ORTHO X-77 Spreader (non-lonic) at 8 oz. per 100 gals, of diluted spray. Add the Atrazine to the spray tank while agitating, then add the LASSO, GRAMOXONE paraquat and ORTHO X-77 Spreader (non-ionic). Continue agitation during application. Refer

to Attacke and LASSO labels for cautions and tor specific rates for a given soil type.

Tank Mix with DUAL** and AATREX: Apply 1** to 1** pls. GRAMOXONE paraquat per acre plus DUAL plus AATREX as a broadcast ground spray before, during, or after planting but before crop emergence. Apply in 20 to 60 gals, of diluted spray per acre. Add ORTHO X-77 Spreader (non-ionic) at 811. oz. per 100 gals of diluted spray. Refer to DUAL and AATREX labels for rates of application, directions, limitations, cautions and for a list of weeds controlled by presinergence activity of DUAL and AATREX Add AATREX to spray tank first, mixing thoroughly in carrier. Then add DUAL, GRAMOXONE paraguat and ORTHO X-77 Spreader

(non-ionic). Constant agitation recommended at all times.

Yeak Mix with DUAL and BLADEX: Apply of the GRAMOXONE paraguat per acre plus DUAL plus BLADEX as a broadcast ground spray before, during or after planting but before crop emergence. Apply in 20 to 60 gals of diluted spray per acre. Add ORTHO X-77 Spreader Inonionic) at 1 to 2 qts per 100 gals, of diluted spray Refer to DUAL and BLADEX labels for rates of application, directions, limitations, cautions and for a list of weeds controlled by preemergence activity of DUAL and BLADEX Add BLADEX to spray tank first, mixing thoroughly in carrier. Then add OUAL, GRAMOXONE paraquat and ORTHO X-77 Spreader (non-ionic). Constant auitation recommended at all times.

1/3 to 243

11/3 + 243

1/3 to 243

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2 3/3

14 to 23/3

GRAIN SORGHUM: For Desiccation and Residual Control of Annual Broadleaf Weeds and Grasses Where Sorghum Will Be Planted Directly Into Previous Crop Residues - Apply 193 to 2 Vrls. GRAMOXONE paraguat plus 2 to 3 lbs. of Atrazine 80 Wettable per acre as a broadcast ground spray before, during, or after planting but before crop emergence. Refer to Atrazine 80 Wettable label for directions, limitations, cautions and for a list of weeds controlled by preemergence activity of Atrazine. Apply 20 to 60 gals, diluted spray per acre. Add ORTHO X-77 Spreader (non-ionic) at 16 to 32 fl. oz per 100 gals, diluted spray Water or nitrogen solutions may be used as a carrier. Add Atrazine to spray tank first, mixing thoroughly in carrier. Then add GRAMOXONE paraguat and ORTHO X-77 Spreader (nonionic). Constant agitation recommended at all times. This herbicide tank mixture will not control volunteer sorghum or shattercane which emerges after application.

Tank Mix with Atrazine and IGRAN' \$ 50 W: (This tank mix should be used instead of GRAMOXONE paraguat + Atrazine when better preemergence control of barnyardgrass. crabgrass, and fall panicum is desired). Apply 15 to 7 pts. GRAMOXONE paraguat phis 1 to 2 lbs. Atrazine 80 W or 1.6 to 3.2 pts. of Atrazine 4L plus 2 to 2½ lbs. iGRAN 80 W per acre as a broadcast ground spray before, during or after planting but being crop entergence Weed control is often superior from application made approximately one week prior to planting. Use low rates of Atrazine and IGRAN 80 W on medium soils, and the higher rates on heavy soils. Relet to Atrazine and IGRAN 80 W labels for directions, limitations, cautions and for a list of weeds controlled by preemergence activity of Atrazine and IGRAN 80 W. The addition of 2,4-D (ester) at 0.5 lb. active per sprayed acre may aid in the suppression of perennial broadleal weeds and annual broadleal weeds that have made excessive growth before application. Refer to the 2,4-D label for directions, limitations, and cautions. Apply 20 to 40 gals, diluted spray per acre. And ORTHO X-77 Spreader (non-sonic) at 16 to 32 ft. oz. per 100 gals, diluted spray. Use only water or nitrogen solutions as a carrier, Add IGRAN 80 W to spray tank first, mixing thoroughly in carrier. Then add Atrazine, 2,4-D (if used), GRAMOXONE paragual, and ORTHO X-77 Spreader (non-ionic). Constant equation recommended at all times.

14 65/3 11/3

SOYBEANS: Preplant or Preemergence Treatment — Apply to pts. GRAMOXONE paraqual per sprayed acre as a band treatment over the crop row, or as a broadcast treatment, prior to, during, or after planting — but before emergence of the crop. Use the /% pt. rate when spring annual broadleaf weeds and grasses are less than 4 inches high or when a directed spray or cultivation will be used within 3 weeks after planting Aerial Application -5 to 10 gals, spray mix per acre. Ground Application - 20 to 60 gals, spray mix per acre. Add ORTHO X-77 Spreader (non-ionic) at 8 lf. oz. per 100 gats of diluted spray Seeding should be done with a minimum amount of soil disturbance. Weads and grasses emerging after application will not be controlled. Crop plants emerged at time of application may be fulled and yields reduced.

SOYBEANS: Minimum Tillage Systems. Tank Mix with LASSO and LORDX 44: Use this tank mixture for control of most emerged annual weeds, suppression of many emerged perennial weeds and preemergence control of many annual weeds when soybeans will be planted directly into a cover crop, state seed bed, or in previous crop residues such as wheat stubble. This tank mixture will not control regrowth from perennial weeds. Do not apply by air For weeds controlled preemergence, see the LASSO and LOROX labels. Refer to the LASSO and LOROX labels for precautionary statements, crop rotation restrictions, rates which are

dependent upon soil textures, directions, limitations, and cautions
Broadcast Treatment --- Apply 13/02 Ths. GRAMOXONE paraquatin this tank mixture in 20 to 80 gals, water per acre unmediately before, during or after planting but before crop emer-gence. Use the 2-di. rate if any weeds are 4 to 6 inches tall. This musture may not control weeds taller than 6 inches. As density of stubble, crop residue or weeds increases, spray gallonage should be increased within the recommended range for complete coverage. Add ORTHOX-77 Spreader (non-tonic) at 8 ft or per 100 gals, of diluted spray First, add the LOROX to the spray tank while agitating, then add the LASSO, GRAMOXONE paraguat and ORTHO X-77 Spreader (non-tonic). Continue austation during application.

SOYBEANS (Preemergence Treatment) ---- For Kill of Emerged Annual Breedleaf Weeds and Grasses and for Top Kill and Suppression of Emerged Personnials Where Sevenas Will be Planted Directly into a Preformed Bad, Cover Crep, or in Previous Crep Residues, Tank Mix with LOROX: Apply/Jot. GRAMOXONE paragual in this tank mixture as a band treatment over the crop row or as a broadcas' treatment after planting — but before emergence of the crop. Refer to the LOROX labels for precautionary statements, rates which are dependent upon soil textures, directions, limitations and cautions. Aerial Application -- Apply 5 to 10 gals spray mix per acre. Ground Application — Use 20 to 60 gals dikuted spray. Add ORTHO X-77 Spreader (non-ionic) at 8 ft oz. per 100 gals, of diluted spray. Seeding should be done with a minimum amount of soil disturbance. Crop plants emerged at time of application will be killed. For band applications, compute amount of Paraquat and LOROX needed per acre by dividing the band width by the inches between crop rows and then multiplying the answer by the recommended broadcast rates. Continue agitation during application. This herbicide tank mixture WILL NOT CONTROL Rhizome Johnsongrass.

Tank Mix with LASSO and SENCOR**: For Contact Action on Errs, god Woods and Pro-emerged Control of Smartweed, Pigwood and Cocklebur, Foxtail and Crabgrass. [This tank mix should be used instead of Paraguat + LOROX or Paraguat + SENCOR when better preemergence control of crabgrass and foxtail is desired). Apply#203 bis. GRAMOXONE paraqual in this tank mixture per acre as a preemergence broadcast ground spray. Refer to LASSO and SENCOR labels for rates which are dependent upon soil textures, directions, limitations and cautions. Apply in 20 to 60 gals, spray mix per acre. Use the 2-bit rate of Paraqual il weeds are 4 to 6 inches tall. This mixture will not control weeds taller than six inches. Add ORTHO X-77 Spreader (non-ionic) at 8 ft. oz. per 100 gals, of diluted spray Add SENCOR to the spray tank first and mix thoroughly. Then add LASSO followed by GRAMOXONE paraqual and ORTHO X-77 Spreader (non-ionic). Constant agitation is recommended at all times. Do not use treated vines for feed or forage

Tan! Mix with Prowite and SENCOR or LEXONE® and/or LOROX (Except CA): Use this tank mixture for control of most emerged annual woods, suppression of many emerged perennial weeds and preemergence control of many annual weeds when seybeans will he planted directly into a cover crop, state seed bed, or in previous crop residues such as whea), stubble. This tank mixture will not centrel regrowth been perennial weeds. Apply 1/10/ bis. GRAMOXONE paraqual per acre plus PROWL plus SENCOR or LEXONE and/or LOROX as a broadcast ground spray before, during, or no more than 2 days after planting (belore crop emergence). The higher Paragual rates will be required under dry conditions or when weeds are 3 - 6 inches tall. Apply in 20 to 60 gals, of diluted spray per acre. Add ORTHO X-77 Spreader (non-ionic) at 2 to 4 pts. per 100 gals, of diluted spray, Refer to PROWL.

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SENCOR, LEXONE and LOROX labels for rates of application, directions, kinitations, cautions and for a list of weeds controlled preemergence by each herbicide. Fill spray tank one-half to three-quarters full with water. Add SENCOR or LEXONE or LOROX to spray tank first, mixing thoroughly in water. Refer to respective labels for mixing directions. Then add PROWL, GRAMOXONE paraqual and ORTHO X-77 Spreader (non-ionic). Constant agitation recommended at all times

Tank Mix with SENCOR: For Contact Action on Emerged Weeds and Preemergence Control of Smartweed, Pigweed, and Cocklebur. (This tank mix should be used instead of Paraquat 1 LOROX when intestations of emerged smartweed, pigweed and cocklebur are present

at application and when better preemergence control of these species is desired. Apply 6/301 his, GRAMOXONE paraquatin this tank mixture per acre as a broadcast ground spray before, during or after planting but before emergence of the crop. Use that fit rate of GRAMOXONE paraquatin weeds are 4 to 6 inches talk. This mixture will not control weeds taller than six inches. Apply in 20 to 60 gals, spray mix per acre. Add ORTHOX-77 Spreader (non-ionic) at 1 qt. per 100 gals, of diluted spray. Do not use treated vines for feed or forage. Refer to the SENCOR tabel(s) for cautions, funitations and recommended rates for specific soil textures, in using minimum ullage equipment, it is important to observe the proper planting depth caution stated on the SENCOR tabels so application is not made directly onto the soybean seed.

Tank Mix with SURFLAN^{AA} and SENCOR or with SURFLAN and LEXONE: For Contact Action on Emerged Weeds and Preemergence Control of Smartweed, Pigwood, Lambsquarters, Velvetleaf, Common Ragweed, Foxtail and Fall Panicum. (This tank mix should be used instead of Paraquat + LASSO + SENCOR, Paraquat + SENCOR or Paraquat + LOROX when longer residual control of loxtail and fall panicum is desired).

Apply/1/pt. GRAMOXONE paraquat in this tank mixture per acre at planting or within 2 days after planting. Refer to SURFLAN and SENCOR or LEXONE labels for rates which are dependent upon soil textures, directions, limitations and cautions. Apply in 20 to 40 gals, spray mix per acre. Add ORTHO X-77 Spreader (non-ionic) at 8 il. oz. per 100 gals of diffused spray. Add SENCOR or LEXONE to the spray tank first and mix thoroughly. Then add SURFLAN followed by GRAMOXONE paraquat and ORTHO X-77 Spreader (non-ionic). Constant agitation is recommended at all times. Do not use treated wines for feed or forance.

ommended at all times. Oo not use treated vines for feed or forage AJ Tank Mix with DUAL and SENCOR or LEXONE or LOROX: ApplyIT to 3 pts. GRAMOXONE paraquat per acre plus DUAL plus SENCOR or LEXONE or LOROX as a broadcast ground spray before, during, or after planting but before crop emergence. Apply in 20 to 60 gats of diluted spray per acre. Add ORTHO X-77 Spreader (non-ionic) at 811 or per 100 gats, of diluted spray. Refer to DUAL, SENCOR, LEXONE and LOROX labels for rates of application, directions, limitations, cautions, and for a list of weeds controlled by preenergence activity of DUAL, SENCOR, LEXONE and LOROX. Add SENCOR or LEXONE or LOROX to spray tank first, mixing thoroughly in carrier. Then add DUAL, GRAMOXONE paraquat and ORTHO X-77 Spreader (non-ionic). Constant agitation recommended at all times.

WHEAT: Chemical Fallow

for Desiccation of Most Emerged Annual Broadleaf Weeds and Grasses and Suppression of Many Emerged Perennial Weeds During the Fallow Period(s) of the Wheat-Fallow, Wheat-Annual Crop and Continuous Wheat Cropping Systems — Apply/1/2020(s). GRAMOXONE paragual per acre as a broadcast spray. Aerial Appli-

cation — Apply 5 to 10 gals spray mix per acre. Ground Application — Use 20 to 60 gals spray mix per acre. As density of stubble, crop residue or weeds increases, spray gallonage should be increased within the recommended range for complete coverage. Add ORTHO X-77 Spreader (non-tonic) at 1 to 4 prs per 100 gals, of diduted spray. Use only clean water or introgen solutions as a carrier. Weeds and grasses emerging after application and regrowth from perennial weeds will not be controlled. Weeds taller than 6 inches at application may not be controlled. The addition of 2.4-B or BANYEL** may add in the suppression of perennial broadleaf weeds and annual broadleaf weeds that have made excessive growth before application. Refer to 2.4-D and BANYEL tabels for directions, limitations and cautions, for extended weed control during the fallow period, tank mix with a registered residual herbicide or herbicide combination. Refer to residual herbicide labels; I for directions, limitations, cautions and for a list of weeds controlled by preemergence activity of the residual herbicide(s). Add wettable powder herbicide(s) to spray tank first, mixing thoroughly in carrier. Then add liquid herbicide(s), GRAMOXONE paraquat and ORTHO X-77 Spreader (non-inc). Constant adulation recommended at all times.

PASTURE AND RANGE RESEEDING

PASTURE AND RANGE RESEEDING: Suppression of Existing Sod and Undesirable Emerged Broadleaf Woods and Grasses to Permit Pasture and Range Reseeding — Apply recommended rates in water to make 18 to 75 gals, didued mix per sprayed acre. Add 8 to 32 ft oz. ORTHO X-77 Spreader (non-ionic) per 100 gals, spray. Apply broadcast or in bands over the drift row prior to, or at time of seeding desired grasses and/or forage legiumes. Apply as a band treatment when recovery of the sprayed sod is desired, such as in the case with desirable lescue grass. Apply as a broadcast treatment when existing grass species is undesirable and should be totally suppressed, such as in the case with run-down bluegrass sod. West of Cascade and Sierra Nevada Mountains — Pyo 3 pis. GRAMOXONE paraquat per sprayed acre prior to, or at time of seeding grasses such as Harddinggrass and Palestine Orchardgrass. Apply in October through December after first fall rains and after weeds have amerged and sod has started new growth. For best seeding results, apply on moderate to heavily grazed areas. Do not use in areas with heavy sod and weed growth. Do not pasture treated areas until growth of newly planted seedlings is 3 to 6 inches high.

East of Rocky Mountains — I year the GRAMOXONE paraquat per sprayed acre during the

East of Rocky Mountains—I No.2 This GRAMOXONE paraquet per sprayed ocre during the growing season. Use the 2 pts rate to suppress vigorous and coarse sod species such as Bromegrass. See specific directions for use in the South and Southeast for suppression of Bermidagrass or Bahagrass sods. Apply prior to, or at time of seeding grasses or forage legimes such as alfalfa, clover and birdstoot tretoil. Apply only to grazed or mowed pastures which are not more than 2 to 3 inches in height at time of treatment. Do not graze treated areas until the newly planted seedlings have reached their recommended grazing height. Under good seedling emergence and growing conditions, allow a minimum of one month between treatment and first grazing. Seedling grasses, and forage legimes should be at least 6" tall; Sudangrass must be 18" tall and Sorghum-sudan 24" tall at first grazing. Under tale fall or winter conditions, it may take 3 to 5 months for seeded grasses and/or legimes to reach recommended grazing height.

South and Southeast -- Bermudagrass or Bahiagrass Sads -- Late Summer or Early Fall

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Application for Sed Suppression when Seeding Winter Annuals: Apply ¹ of GRAMOXONE paraqual per acre in 20 to 30 gals, water in late summer or early fall to sod that does not exceed 3 inches in height Apply prior to, or at time of seeding winter annuals. Add 1 qt ORLHO X-7? Spreader (non-ionic) per 100 gals spray. Do not pasture in treated areas unlike the days after treatment or until winter annual seedlings are 9 inches tall.

BERMUDAGRASS PASTURES: For the Suppression of Emerged Annual Broadleaf and Grassy Weeds Including Little Barley, Bipmez, Buttercup, and Carolina Geranium in Dermant Bermudagrass Pastures — Apply? Of per acre GRAMOXONE paraquatin 20 to 30 gals, water with ground equipment or 3 to 5 gals, water per acre with fixed wing aircraft during March For control of hitle barley, apply before the mid boot stage. Add 1 q1 of DRTHD X-73 Spreader (non-ionic) per 100 gals, spray mix. Do not pasture or mow for hay until 40 days after treatment.

ALFALFA, CLOVER

ALFALFA, CLOVER—Washington, Oregen, Colorade, Idahe, Mentana, Utah, Nevada, Wyeming, and California (counties of Del Norte, Siskiyou, Modec, Shasta, Lasson, Plumas, Sizerra and Nevada): Apply for Desiccation of Ryagrass, Bluegrass, Cheatgrass, Doglenael, Chickweed, and Tansymustard in Dermant Alfalfa and Glover, Except Annual Clover—Apply2*16 4*pts. GRAMDXONE paraquat per acre (use high rate for cheatgrass) in 20 to 100 gals, spray mix by ground as a broadcast application. Apply by air in 5 to 10 gals, spray mix per acre. Apply to established stands after the last fell cutting when the crop is domain but before spring growth starts. Do not apply if regrowth following the last fall cutting is more than 2" tall. Alfalfa and clover foliage present at the time of application will be burned. Apply when the broadleaf weeds and grasses are succulent and growth is from 1" to 6" tall. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 ft. oz/100 gals, spray mix. Do not pasture animals in treated fields before first cutting. Do not graze, cut or harvest within 80 days of application for alfalfa. On not apply more than once per season.

ALFALFA: For Use in States East of the Rockies and North of the Southern Borders of Colorado, Kansas, Missouri, Kentucky, and Virginia — For control of Bluegrass, Chickweed, Henbit, and Downy Brome and suppression of perennial grasses including Orchard Grass, Emothy and Smooth Brome, Apply? to 45ts. GRAMOXONE paraquat per acce in 20 to 60 gals, water by ground equipment as a broadcast application. Apply by air in 5 to 10 gals, spray mix per acce. Use 4pt. rate for kill or suppression of harder to control weeds and grasses, such as the perennial species. Do not apply if fall regrowth following the last fall cutting is more than 6° tall. Apply to well-established stands (at least one year old) after the tast fall cutting when the crop is dormant or before spring growth reaches one such Alfalfa foliage present at the time of application will be burned which may reduce the yield of the first cutting. Weeds and grasses should be succulent and growing at the time of application. Weeds that germinate after application will not be controlled. Add ORTHO X-77 Spreader (non-ronce) at 8 to 37 fl. oz /100 gals. spray mix. Do not graze, cut or harvest within 60 days of application. Do not apply more than once per season.

Tank Mix with PRINCEP to W Simazine Wood Killer:

ALFAUFA only—For Control of Filares, Jim Hill Mustard, and Shephordspurse, and for improved Control of Bluegrass, Cheatgrass, Chickweed, and Tansymustard. Apply/50 #

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Tank Mix with VELPAR L*:

Alialia only—For control of Chickweed, Bowny Brome and Tansymustard (Idaho, Oregon, Utah and Washington only). Apply 1% 6.2%, pt. GRAMOXONE Paraquat plus 1 to 2 qts. of VELPAR L per acre in 10 gals spray mix by air or 20 gals. spray mix by ground equipment. Add ORTHO X-77 Spreader (non-ionic) at 16 to 32 ft. oz. per 100 gals. spray mix. Use the lower rate of VELPAR L on loamy sand or sandy loam soils. Use the 1% pt. rate of paraquat when weeds and grasses are less than 4 inches tall.

Refer to the VELPAR label for cautions, limitations and recommended rates for specific soil types. Apply once to established stands of alfalla during the dormant season for alfalfa. Do not apply to regrowth that is more than 2 inches tall. Do not apply following cuttings during the growing season. Do not apply to alfalfa during the first season after seeding. Stress which may be caused in part by letter for disease, insects, winter kill, over cutting, drought or frost may it as a chances of crop injury. Temporary clifforsis may occur on alfalfa regrowth. Do not graze, cut or harvest within 42 days of application.

pts. GRAMOXONE paraquat plus 1 to 2 tbs. of PRINCEP 80 Win 20 to 100 gats spray mix per acre with ground equipment or 5 to 100 gats spray mix per acre by air. Add ORTHO X. 77. Spreader (non-ionic) at 8 to 32 ft. or, per 100 gats, spray mix, Use the first rate of GRAMOXONE paraquat when weeds and grasses are less than 4" tall. Refer to PRINCEP 80 Wilabel for cautions, kinitations, and recommended rates for specific soil types. Do not pastura animals intreated fields before first cutting. Do not graze, cut or harvest within 90 days of application. Do not apply more than once per season.

ALFALFA enty — Suppression and Control of Broadleaf Woods and Grasses in New Alfalfa Seedlings Groves for Hay (California Daly).

For Control of:	Use Rate Directions — Pint/Acre For Supression For Control		Suppression Control	
Spikeweed [4 in. tall or less] Volunteer Small Grain [8 in. tall or less] Fiddleneck [6 in. tall or less] Shepherdspursa Annual Bluegrass	74 pl // 2/2 to / pl 2/2 to / pl 1/4 to 2 pls.	/5:02 pls. 2 4pts. 2 4pts. 2 4pts. 15 to 2 pts.	2/3 2/3 - 1/5 2/3 - 1/9 1/4 - 2 */3	1%-23/3 23/3 24/3 14/-24/3
Chickweed Red Maids (6 in. tall or less)		143 to 23 bls.	-	11/3-21/3

Apply in 25 to 50 gals, water per acre by ground or in 5 to 10 gals, by air as a broadcast application during late winter or early spring. Add DRTHO X-77 Spreader (non-ionic) at 8 to 32 ft. oz. per 100 gals, spray mix. Do not use the 30 pt. rate unless the alfalfa has at least 3 trilokate leaves; the 175t, rate unless the alfalfa has at trilokate leaves; or rates over 15 pt. unless there are 9 trilotate leaves. Alfalfa fokage present at time of application will be burned. Do not pasture animals in treated fields before tirst cutting Do not graze, cut or harvest within 70 days of application. Do not apply more than once during the first growing season.

CAUTION: SEEDLING ALFALFA STANDS WILL BE REDUCED AND REPLANTING MAY BE NECESSARY NOT RECOMMENDED IN SEEDLING ALFALFA GROWN FOR SEED.

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HARVEST-AID USES

COTTON HARVEST AID

TO AID IN OPENING OF MATURE BOLLS AND TO DESICCATE GREEN LEAVES: *I pt. of GRA-MOXONE paraquat in combination with 1 pt. of phosphate or 1 gal. of chlorate defokant per acre. Apply when 80% or more of the bolls are open and the remaining bolls to be harvested are mature. Development of immature bolls will be inhibited.

TO AID IN DEFOLIATION AND OPENING OF MATURE BOLLS OF WESTERN COTTON (ARI-ZONA, CALIFORNIA): First Application — "Hito YJpt. GRAMOXONE paraqual plus 1 to 2 pts. phosphate detokant or 1 to 2 gals, chlorate detokant per acre. Use higher dosages on rank 4/1 +. 2/3

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NOTE: Do not use on gravelly or rocky soils, exposed sub soils, hardpan, sand, poorly drained or alkali soils. Crop injury, including mortality, may result in helds having restricted root growth due to non-uniform soil profiles it is all bases, hardpans and clay lenses.

VELTAR L---Reg. TM of E. I. duPont de Nemours & Co., Inc.

cutting is more than 2 inches tall and do not graze or harvest within 60 days of application or excessive residues may result. Alfalfa foliage present at the time of applications will be discolored and temporarily stunted. Total hay yield of the first cutting may be reduced in alfalfa fields with severe weed infestation. This reduction will usually be directly proportionate to the loss of weed weight. Apply when weeds are succulent and growth is less than 6 inches tall. Add ORTHO X-77 Spreader (non-ionic) at 16 oz./100 gals. spray mix. Do not apply more than once per season. Do not apply following cuttings during the growing season.

ALFALFA: Established Plantings (California only): For Desiccation of Bluegrass, Ryegrass, Shepherdspurse, Chickweed, Tansymustard, Foxtail, Sowthistle and Groundsel - Apply 1/3 to 2/3 pts. in 20 to 100 gals. spray mix by ground as a broadcast application. Apply by air in 5 or more gals. spray mix per acre. Use high rate for Ryegrass, Shepherdspurse, Sowthistle and Groundsel. Do not apply if regrowth after grazing or cutting is more than 2 inches tall and do not graze, cut or harvest within 60 days of application or excessive residues may result. Alfalfa foliage present at the time of application will be burned and temporarily stunted. Apply when broadleaf weeds and grasses are succulent and growth is from 1 to 6 inches tall (treat before grasses tiller). Add ORTHO X-77 Spreader (non-ionic) at 8 to 16 oz./100 gals. spray mix. Do not apply more than once per season. Do not apply following cuttings during growing season.

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ALFALFA: For Weed Control Between Cuttings in States East of the Rockies - Apply 13pt. per acre in 20 to 60 gals. of water by ground equipment as a broadcast application for control of annual grasses and broadleaves and the suppression of perennial weeds. Weeds much beyond the seedling stage and the stubble of those cut off during harvest will be less affected by the treatment. Apply to established stands (at least one year old). Apply immediately after alfalfa has been removed for silage or hay. Do not treat more than 5 days after cutting. Alfalfa foliage present at the time of application will be burned. Weeds that germinate after application will not be controlled. In arid areas or when soil moisture is limited, effectiveness may be reduced. Add ORTHO X-77 Spreader (non-ionic) at 16 to 32 fl. oz./100 gals. of spray mix. Do not graze, cut or harvest within 30 days of application. Make 1 to 3 applications as needed, during the cutting season. These sprays can be applied in addition to a dormant application.

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lage is dense, use 2 applications of \$\infty\$01 if necessary. Apply when 85% or more of the bolls are open and the remaining bolls to be harvested are mature. Development of immature bolls AERIAL APPLICATION — Apply 3 to 10 gals, spray mix per acre. Use ORTHO X-77 Spreader

type delofiants per acre.

inversion to avoid drift. GROUND APPLICATION — Apply 10 to 30 gals, spray mix per acre. Arrange nozzles to provide thorough coverage of the foliage. Use ORTHO X-77 Spreader (non-sonic) at 8 to 32 ft. oz. per

(non-tonic) at 8 to 32 II. oz. per 100 gals, spray mor. Do not apply during genods of thermal

cotton. {Caution — Do not use more than 3/pt GRAMOXONE in initial application, as exces-

sive desiccation may occur) Apply when 60% or more of the bolls are open and remaining

bolls to be harvested are mature. Development of immature bolls will be inhibited. Do not

use more than 40 lbs, actual sodium chlorate per acre or more than 1.5 lbs, actual phosphate

Second Application — To Aid in Opening of Mature Bolls at Second or Later Harvest Aid Treatment and to Desiccate Green Leaves — 7) to 19pt GRAMOXONE paragual per acre (in desert cutton areas or on rank vigorous cotton, use the 19pt rate only) or 3/2 to 1/19pt GRA-

MOXONE paraquat plus 11/2 to 2 pts. phosphate defoliant or 11/2 to 2 gals. chlorate defoliant.

Apply when 75% or more of the bolls are open and the remaining bolls to be harvested are

TO DESICCATE STRIPPER COTTON: 14 to 2 pls. GRAMOXONE paraquat per acre. When to-

mature. Development of immature bolls will be inhibited.

May apply as split application. Do not pasture lactating dairy animals. Do not pasture livestock in treated fields within 15 days after treatment. Remove livestock from treated area 30 days before staughter. Do not feed gin trash to livestock. Do not apply to cotton within 3 days before harvest. Repeat application if necessary. Do not make more than 2 applications or exceed a total of 2 pls. per acre. When combined with phosphata defoliants, observe livestock cautions listed on the phosphate label. When combined with chlorate defoliants, do not pasture livestock on treated areas or feed treated foliage or gin trash. Do not apply within I days when used with phosphate or chlorate defoliant.

GUAR — For Use as a Preharvest Crop Desiccant — Apply IV qt. GRAMOXONE paraquat in 20 to 30 gals, of water per acre. Add ORIHO X-77 Spreader (non-ionic) at 1 to 2 qts. per 100 gals, water. Apply after pods are fully matured. Do not harvest until at least 4 days after application. Do not graze treated areas or feed treated forage to Investock.

POTATO YINES: PREHARVEST VINE KILLING — You of S. GRAMOXONE paraqual per acre. Use the of the rate where quick vine kill is desired or 2 applications of 1 pt. when ying growth is derise. Apply in 50 to 100 gals, water per acre with thorough coverage. Add 8 to 32 ft. oz. of ORTHO X-77 Spreader (non-sonic) per 100 gals, water. Begin application when leaves are beginning to turn yellow. Immature potato foliage and drought stressed potato foliage are tolerant to GRAMOXONE paraqual and desiccation will not be complete. Do not make more than 2 applications with a minimum of 5 days between applications. Do not apply GRA-MOXONE paraquat to potatoes within 3 days before harvost. Do not pasture livestock in treated potato fields. To avoid injury to subsequent crops, do not use on muck or peat suits. Do not use GRAMOXONE paraguat for desiccating potato vines when the potatoes are to be stored or used for seed as this use may result in the tuber decomposition and failure of

seed pieces to germinate and grow normally.

SOYBEAN HARVEST AID - Apply 15 to 1971 GRAMOXONE paraqual per a weeds and grasses. Use high rate on cocklebur Add 1 of ORTHO X-7 ionic) per 100 gals spray Aarial Application - 2 to 5 gals spray per acr cation — 20 to 40 gals spray per acre ladeterminate Varieties: Apply who the seed pods have reached a mature brown color or when seed moistu Determinate Varieties: Apply when soybean plants are mature, i.e., bean oped, at least 1/2 of leaves have dropped, and leaves left on plants are to mature soybeans will be injured. Mature cockleburs, especially drought-sti tolerant to GRAMOXONE paraquat and desiccation will not be complete. D stock within 15 days of treatment. Remove livestock from treated fields at le-

SUNFLOWER (OILSEED VARIETIES ONLY) — For Desiconting of Sunfi Broadleaf Woods and Grasses to Facilitate Harvesting: Apply 102 pts. GR quat per acce in 5 gals, spray mix by air or in 20 to 40 gals, by ground applic Use the higher rate when crop stands or weed intestations are heavy. App flower seeds reach physiological maturity (when seed moisture is 35 perc many varieties, this corresponds to the time when the back of the heads a bracts are turning brown. Harvest 7 to 21 days after application. Add ORTI (non-tonic) at 1 qt. per 100 gals, water. Do not graze treated areas or fe to livestock.

SUGARCANE --- Preharvest Crop Desiccation (Florida and Texas Only) -GRAMOXONE paraquat per acre. Apply to mature plant or stubble cane water per acre. Use higher rate under cool, cloudy weather condition Spreader (non-ionic) should be added to all sprays at the rate of 1 pt. pt Apply with aircraft sprayer 3 to 14 days before burning and harvest. For ri when weather is clear and warm. Apply as a coarse spray at low pressure to prevent spray dolt.

DIRECTED SPRAYS

ORCHARDS, VINEYARDS, WINDBREAK, SHADE AND ORNAMENTAL T Annual Broadleaf Weeds and Grasses and For Top Kill and Suppression Green Suckers under Filbert Trees, in the Interspaces and Around the f Vines — Acerela, Almonds, Apples, Apricots, Avocades, Bananas, Cherri Figs, Filberts, Grapes, Kiwifruit, Macadamia Nuts, Nectarines, Olives, P Pears, Pecans, Pistachios, Plums, Prumes, Walnuts and other trees su Ash, Elm, Fir, Oak and Pine — Apply as a directed spray at Pro Pils. GRAN per sprayed acre in 30 to 150 gals, water (use 30 to 50 gals, water for pec-cover the weeds and grasses. Add GRIHO X-77 Spreader (non-ionic) at 8 gals. Apply when the weeds and grasses are succulent and the new gro inches high, for mature woody weeds, green suckers, late germinating w and for perennials — retreatment or spot treatment may be necessary.

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allow spray to contact green stems, fruit or foliage as injury may result. Do not spray under windy conditions and use a shield for young trees or vines. Do not allow animals to graze on treated areas. Do not apply when nots to be harvested are on the ground if or Krivifroit. do not treat more than 3 times per year and do not apply within 14 days of harvest for Pistachios, do not harvest within 7 days of treatment and do not exceed two applications

ALMONDS, GRAPES, AND WALNUTS (California Only); ORANGES (California and Florida Only); SOUR CHERRIES (Michigan Only); APPLES, PEACHES, PEARS: Tank Mix with PRINCEP 80 W Simazine Weed Killer - For Top Kill and Residual Control of Annual Broadleal Weeds and Grasses and for Suppression of Perennial Weeds — For broadcast application apply/1/102 GIS. GRAMOXONE paraguat per acre and PRINCEP 80 W at the following rates per acre:

Сгор	Rate PRINCEP 60 W Per Sprayed Acre	Precautions
Almonds and Peaches (California Only)	1%-2% lbs in 2-4 ft. band on each side of tree row. 1% lbs. provides residual control of burclover, common chickweed, wild mustard and sheperdspurse.	Do not treat trees estab- ished less than 3 years. Do not treat Mission variety of almonds. Do not apply to almond trees propa- gated on plum root stalks. Do not replant almonds or peaches in treated soil Do not apply on gravelly sand or loarny sand soil or on soil with less than 1% or- ganic matter. Do not treat areas where water will accumulate.
Apples Pears Sour Charries (Michigan Only) Walnuts (California Only)	27-5 lbs.	Do not apply to sandy soil. Leveling and furrowing op- erations after application will lessen effectiveness of weed control.
Peaches (Arkansas, Louisiana, Missouri, Oklahoma, Texas and states East of the Mississippi River)	2-5 lbs.	Do not apply to sandy or gravelly sod.
Grapes (California Only)	21/5-6 lbs	Do not use in vineyards es- tablished less than 3 years.

Crop	Rate PRINCEP 80 W Per Sprayed Acre	Processions
Oranges (California Only)	21/2-5 lbs.	Do not use in nurseries. To avoid possible injury, do
Except Imperial Coachella and Palo Verde Valleys		not apply to trees under stress from freeze damage
(Florida Only)— Bedded	4 lbs.	for one year following the present

Use the low rate of PRINCEP 80 W on coarse textured soils and low organic matter soils. Use the high rate on line textured soils and high organic matter soils. Apply as a tank must in 50 to 200 gals of water per acre to the orchard floor avoiding contact with fruit foliage or stems. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 ft. oz. per 100 gals, deuted spray. Apply when weeds and grasses are succulent and the new growth is from 1 to 6 inches tail. For band applications or spot applications around trees, reduce the broadcast rate and the amount of water in proportion to the area actually sprayed.

Make only one application per year. Apply in orchards where trees have been established one year of more. Do not spray under windy conditions and use a shield for young trees. Do not apply to almonds and walnuts when nots are on the ground during the harvest period. Do not allow animals to graze treated areas.

Refer to the PRINCEP 80 W Synazine label for general information, caution and warning

HOPS (Washington, Oragon, and Idaho Only): For Kill of Annual Bluograss, Byegrass, Barnvardorass, Pigweed and Chickweed - Apply as a directed spray in the interspaces and around the base of hop plantings using Tot. GRAMOXCNE paragual in 20 to 100 pals, water per acre to thoroughly cover weeds and grasses. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 ft of per 100 gals, spray mix. Do not apply around hop vines less than 10 ft. tall Apply when weeds and grasses are succulent and growth is from 1 to 6 inches tall. Retreatment or spot treatment may be necessary. For Suckering and Stripping (Cascade, Yakima Cluster and Bullion Varieties Only): Spray only basal 2 ft. of wises using fight in 20 to 100 gals, water per acre. Add ORTHO X-77 Spreader (non-sonic) at 8 to 32 H. oz per 100 gals. spray mix. Do not apply to hop vines less than 10 ft. tall. Repeat as necessary. CAUTION: Do not apply more than 3 times per season. Do not apply within 14 days of harvest. Do not allow spray to contact green stems, foliage, flowers, or cones, as vijury may result. Do not allow animals to graze in treated hopyards. Hop vine refuse and slage may be fed to livestock.

GUAVA — Apply as directed spray at 3 fts. GRAMOXONE paraqual per sprayed acre in

50 to 200 gals, to thoroughly cover the weeds and grasses. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 ft. oz. per 100 gals. Apply when the weeds and grasses are succulent and the new growth is from 1 to 6 inches high, for mature woody weeds, late germinating weeds and grasses and for perennials — retreatment or spot treatment may be necessary. CAUTION: Do not allow spray to contact green stems, fruit or foliage as voyery may result. Do not spray under windy conditions and use a shield for young trees. Do not allow animals to graze on treated areas.

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Rates			Rates
2. ^{2/} 3	PASSION FRUIT — Apply as a directed spray at 2 qis. GRAMOXONE paraquat per sprayed acre in 50 to 200 gals. To thoroughly cover the weeds and grasses. Add ORTHO X-77 Spreader (non-ronic) at 8 to 32 ft. oz. per 100 gals. Apply when weeds and grasses are succulent and the new growth is from 1 to 6 inches high for mature woody weeds, late germinating weeds and grasses and for perennials — retreatment or spot treatment may be necessary. CAUTION: On not allow spray to contact green stems, fruit or lokage as injury may result. On not spray under windy conditions and use a shield for young vines. If bark is still green, wrap vine prior to application to prevent injury. If application is to be made during harvesting season, apply GRAMOXONE paraquationly after picking fruits off the ground. On not allow animals to graze on treated areas.	nozzles mounted on skid shoes, oiling shoes, fenders, or cultivators with gauge wheels and adjusted so that only the lower 3 inches or less of the sorghum stalk is sprayed for best coverage on single rows, use 4 that han nozzles per row, 2 nozzles on each side of the row. The 2 forward nozzles should point forward and downward, and rear nozzles should point to the rear and downward for double row sorghum use one skid between the two rows with one nozzle spraying backward and downward. Some sheath and lower leaf spotting and desiccation will occur. Basal spotting does not penetrate beneath outer sheath. Degree of injury is related to precision of application and wind velocity. Bo not spray under windy conditions.	
1/3 - 2 2/3	PINEAPPLES: For Kill of Annual Broadleaf Weeds and Grasses and Top Kill and Suppression of Perennials — Apply as a directed spray using \$70.2 kgs. GRAMOXONE paraquat in 100 to 200 gals, water per sprayed acre to thoroughly cover the weeds and grasses. Add ORTHO X-77 Spreader (non-ionic) at 8 to 32 ft. oz. per 100 gals. Apply when weeds and grasses are succulent and new growth is from 1 to 6 inches high. Retreatment may be necessary on more mature weeds. Do not apply within 20 days of harvest. SMALL FRUITS (Blackberries, Boysenberries, Raspberries, Blueberries)—For Kill of Annual Broadleaf Weeds and Grasses and for Top Kill and Suppression of Perennial Weeds	FIELD CORN: Postemergence Directed Spray Using GRAMOXONE paragual Alone or GRA- MOXONE paraguat + Auazine Tank Mix — For Control of Emerged Annual Breadleaf Weeds and Annual Gresses Less than 4 Inches Tall — Apply/fight. GRAMOXONE paraguat per acce int 20 to 40 yals, of spray mix. Apply when corn plants are at least 10 inches tall Corn plants shorter than 10 inches may be injured and not recover. Corn height measured from soil surface to top of whorf. Apply with directed spray application equipment Arrange nor- ities to spray no higher than the lower 3 inches of corn stalks to provide for maximum contact of weeds, with minimum contact of corn plants to prevent excessive sheath and lower leaf spotting and desiccation. Add 1 qt. of ORTHO X-77 Spreader (non-ionac) par 100 gals of spray.	1 1/3
11/3-22/3	in the Interspaces and Around the Base of Bushes — Apply as a coarse directed spray at 18,102 fets. GRAMOXONE paraquet per sprayed acre in 50 to 200 gals, water to thoroughly wet the weeds and grasses, Add ORTHO X-77 Spreader (non-lone) at 8 to 32 ff. or, per 100 gals, water. Apply before emergence of new cares or shoots as injury to those canes or shoots can result. Apply as a coarse spray to avoid drift injury from line spray mist. STRAWBERRIES: Postemergence Directed Spray — For Control of Emerged Annual Broad-	Do not mix with liquid fertilizer For Improved Control of Weeds, Especially Breadleaves, Tank Mix GRAMOXONE paraguet and AATREX: Add % to 1% tos. of AATREX 80 W or 1 to 2 pts. of AATREX 4L in combination with 150t. GRAMOXONE paraguat per acre. Add AATREX 80 W or AATREX 4L to spray tank first, mixing thoroughly in water. Then add GRAMOXONE paraguat and surfactant. Constant aguation recommended at all times. Refer to AATREX labels for immitation and cautions. Do not graze treated areas or feed treated forage to livestock.	1 1/3
1 1/3	leaf Weeds and Grasses and for Top Kill and Suppression of Emerged Perennial Wheels Between the Rows After Crop Plant Emergence or Establishment — Apply Plant GRAMOXONE paraquat per sprayed acre in 20 to 60 gals, spray mix. Apply with conventional ground equipment directing spray between the rows and using shields to prevent spray contact with crop plants. Add ORTHO X-77 Spreader (non-ionic) at 8 ft. Or. per 100 gals spray mix. For best results, apply when weeds and grasses are succulent and weed growth is 1 to 6 inches high. Weeds and grasses emerging after application will not be controlled. Do not allow spray to contact strawberry plants as injury or excessive residues may result. Bo not apply more than 3 times per crop season. Do not apply within 21 days of harvest. Do not graze livestock in treated areas.	CORN: For use in the USDA Witchweed eradication program to kill grassy weeds. Apply 15 of. GRAMOXONE paraqual in 10 to 20 gals, spray per acre. Add ORTHO X-77 Spreader (non-ionic) at 8 fl. oz. per 100 gals, spray mix. Apply as a spray directed onto the grassy weeds at the base of the corn stalks in the hills or row, initiate sprays in early July and repeat in early August if regrowth of grassy weeds occurs. Do not graze twestock in treated sina. SOYBEANS: Postemergance Directed Spray — For Control of Seedling Johnsongrass, Crabgrass, Goosegrass, Brachiana, Echinochlog spp. (Texas Millet), and Proyeed less than 2 inches tall apply GRAMOXONE paraqual at 5 ff. oz. (163 lb. active) per acre. Use proportionately less for band treatment for example on 40 inch rows and 16 inch band apply 151.	143 543 143
11/3-22/3	GRAIN SORGHUM: Postemergence Directed Spray — For Kill of Emerged Crabgrass and Pigweed 3 Inches or Less in Heigh — (1302 th's GRAMOXONE paraguat in 20 to 40 gals.	GRAMOXONE paraqual Jp 80 acres. For 2 to 4 such grass and 2 to 3 such provided apply GRA- MOXONE paraqual at loft or (125 lb. active) per acrefor example on 40 such rows and 16	10 2/3
11/3	water per sprayed acre. Use higher gallonage of water for larger weeds, for band appli- cations, I&DL GRAMOXONE paraquat will cover 2 land or crop acres when a 20 inch band is treated in 40 inch rows. Treat when grain sorphism is naturally standing 12 inches tall or more. Add ORIHO X-77 Spreader (non-ionic) at 1 gt. per 100 gals, of spray. Do not exceed	utch ballo apply/agai. GMAMUXUNE paraquat to 40 acres. Soybeans should be 8 inches tall at first application. If needed, make second application 7 to 14 days later. Do not treat more than twice. Apply 20 gats, spray more per treated acre. Use proportionately less for hand treatments. For	143
11/3	30 psr; high pressure contributes to spray drift. For best results, apply GRAMOXONE paraquat at 1 pt per sprayed acre to grass and weeds.	example 8 gals, spray mix per 16 inch band on 40 inch rows. For best coverage, use 4 tlat fan nozzles per row, 2 nozzles on each side of row. The two	
243	less than 2 miches fall. Grass and weeds 2 to 3 miches fall should be sprayed with 2 bis. of GRAMOXONE paraquat per sprayed acre. Use precision application equipment with spray 18	forward notities should point forward and downward, and tear notities should point to the rear and downward. Do not exceed 30 psr, high pressure contributes to drift Adjust notities to spray no higher than the lower three inches of the soybean plant. Do not treat if soybeans.	

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are below 8 inches tall; soybeans treated topically will be killed. Add ORTHO X-77 Spreader (non-ionic) at 1 to 2 gts, per 100 gais of spray.

Do not graze treated areas or feed treated forage to livestock

SUGARCANE - Directed Spray: For Kill of Emerged Annual Broadleaf Weeds and Grasses and for Top Kill of Perennials - Apply as a shielded or directed spray when weeds are 2 to 6 metres high. Avoid contact with cane foliage to prevent serious leaf burn and reduced yields. Make a second and final application, if necessary, when new weed growth is 2 to 6 inches high Add ORTHO X-77 Spreader (non-ionic) at 8 ft. or per 100 gats spray mix Florida Only -- Apply Mot GRAMOXONE paraguat in 50 to 100 gais of water per acre For

optimization results, apply early in the season (March-April) when weeds are small. Do not apply after June 1st as cane growth may be stunted and yields reduced.

Hawari Only - Apply/Yot. GRAMOXONE paraquat in 20 to 200 gals, of water per acre. Do not apply after cane rows have closed in.

Louisiana Only - Apply 1/2 to 1 of GRAMOXONE paraquatin 20 to 200 gals, of water per acre. Fortiller control, apply when tillers are less than 18" high Use the higher rate of GRAMOXONE paraqual with heavier weed intestations or titler growth. Bo not apply within 30 days of harvest.

TOMATOES AND PEPPERS (Middle Atlantic, Southeast, South Central Regions, and Southwest to the Western Boundary of Texas); Postemergence Directed Spray-for Kill of Emerged Annual Broadleal Weeds and Grasses and for Top Kill and Suppression of Emerged Perennial Weeds hetween Rows after Crop Plant Emerg-

ence or Establishment -- Apply as directed spray using IVigi. GRAMOXONE paraqual per sprayed acre in 20 to 100 gals spray mix Apply with conventional ground equipment diructing spray between the rows and using shields to prevent spray contact with crop plants. Add ORTHO X-77 Spreader (non-tonic) at 8 ft. oz. per 100 gals, spray mix. Apply when weeds and grasses are succulent and weed growth is 1 to 6 inches high. Weeds and grasses emerging after application will not be controlled. Do not allow spray to contact tomato or peoper plants as injury or excessive residues may result. Do not apply more than 3 applycations per crop season. Do not allow animals to graze on treated areas.

DORMANT USE

PEPPERMINT, SPEARMINT: For Suppression of Weeds Such as Ralian Ryegrass, Prickly Lettuce, Groundsel, Chickweed, Downy Brome and Bluegrasses During the Dormant Season -- Apply 2 to 4 pts. per acre as a broadcast spray in 25 to 65 gals. spray mix Use the higher rate with heavier weed infestations. Add ORTHO X-77 Spreader (non-ionic) at 8 ft. oz. per 100 gals, spray mix. Apply when peppermint or spearmint is dormant and before spring growth begins. Do not apply to weeds which are greater than 6" tall. Do not apply more than Fols per acre per dominant season as injury or excessive residues may result. For Improved Contact Activity and Residual Control of Italian Ryegrass, Prickly Lettuce and Groundsel -Add 1 to 2 lbs of SINBAR** (Terbacil) Weed Killer as a lank mix. Use the higher tank mix rate with heavier weed intestations. Apply tank mix treatment no more than once per season. Use a minimum of 25 gals, spray mix per acre. Refer to the SINBAR label for specific recommendations and cautions.

RHUBARB: For Kill of Emerged Annual Broadleaved Weeds and Grasses and for Top Kill and Suppression of Emerged Perennial Weeds in Dormant Rhubarb — Apply 1613 61s GRA-MOXONE paraquat per sprayed acre by ground application equipment. Use 50 to 150 gais spray mix per acre. Add ORIHO X-77 Spreader (non-ionic) at 8 to 32 ft. oz. per 100 gals, spray mix. Use the higher rate with heavier weed intestations. Apply during the dormant season before buds in crown begin to grow. Do not make more than two applications per season

NONCROP USES

NUNCROP AREAS (Public Airports, Electric Transformer Stations and Substations, Prpeline Pumping Stations, Around Commercial Buildings, Storage Yards and Other Installations, Fence Lines, and Similar Honorop Areas) - For the Control of Annual Breadleaved Weeds and Grasses (such as Burclover, Chickwood, Filarge, Groundsel, Nettle, Pigweed, Plantain, Puncturevine, Purslane, Red Clover, Shepherdspurse, Thistle, Wild Mustard, Wild Radish, Wild Dats, Bluegrass, Cheatgrass, Crabgrass) and Top Kill and Superpasion of Porennial Weeds (such as Bermudagrass, Johnsongrass, and Moraingelery) - 1/201 GRA-MOXONE paraquat per acre. Apply for full coverage and thorough weed contact (50 to 100 gals, diluted spray per acre). Best results are obtained when applications are made to young. succulent weeds and grasses. Mature, woody weeds are less susceptible. Repeat as needed Add ORTHO X-77 Spreader (non-ionic) at 8 oz. per 100 gals. GRAMOXONE paraquat is compatible with many residual herbicides. Avoid spray contact with foliage or fruit of food croos and ornamentals.

RESIN SOAKING

RESIN SOAKING IN PINES (Lobielly, Shortlead, Longland, Slock, Virginia, Pand, 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 paraguat to pines is ac-Confusited during such periods, causing a reduction in the amount of pleoresin deposited in the xylem. Select trees to be treated from vigorous, non-stagnated stands, either natural or planted in stagnated stands or commercial tumber stands, plan treating with GRAMDXONE paraqual not sooner than three years after a commercial thinning.

Application Directions -- Apply GRAMOXONE paraquat diluted in water to 5% cation. will fwt 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:

Bank Streaks or Cuts: This type of wound is made using a standard or rotary bank hack or a chainsaw chipping tool employed in naval stores work to remove a single one-inch wide streak of bank about 1 to 2 feet from ground level. The total length should not exceed 15 of the tree circumterence. Multiple streaks or cuts can result in serious girdling of the trunk and premature death of the tree. A coarse spray (about 2 to 6 ml.) of GRAMQXUNE paraguat solution (1% to 5% cation, wt /wt. basis) should be applied to runoff to the exposed sylem, using a plastic acid bottle or a low-pressure sprayer Wear rubber gloves when using the acid bottle. The amount of spray required per cut depends on tree circumference and the

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length of cut or streak the of circumference). For a 9-inch diameter tree, 3 mt of spray will cover the 1 inch wide streak. Using 3 ml. of a 2% or 4% GRAMOXUNE paraqual solution will result in application of 60 or 120 mg. GRAMOXONE paraqual per streak.

Tree Injection: Pressure injections of 1% to 4% GRAMOXONE paraqual solution (cation, will basis) should be applied beneath the bark and just beneath the cambium layer Injections should be made 1 to 2 inches apart around ½ of the tree curcumference or no closer than 3 inches apart all around the tree From 0.2 ml to 0.4 ml of GRAMOXONE paraqual solution is applied per injection. Using 2% to 4% GRAMOXONE paraqual solution, this results in 36 to 144 mg. GRAMOXONE paraqual applied per 9-inch diameter tree, for holes spaced 1 inch apart around ½ of the tree or 3 inches apart all around the tree.

Bore Holes: % to % inch diameter holes 2 to 6 inches deep, depending on tree diameter, are bored stoping slightly downward and tangentially inward rather than directly towards the center of the tree. Solutions of 0.3% to 5% GRAMOXONE paraquat can be used. Lower concentrations (0.3%) are usually applied at higher volumes of 15 to 35 mL per tree, resulting in application of 45 to approximately 100 mg. GRAMOXONE paraquat per tree. Using 2% to 4% solutions and applying 5 mL per single hole per tree results in application of 100 or 200 mg. GRAMOXONE paraquat per tree. Bore hole applications in the range of 45 to 100 mg. GRAMOXONE paraquat per tree have resulted in effective oleotesin induction.

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

Interval Between Treatment and Tree Harvest: The interval between application of GRA-MDXONE paraquel 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 drouth or serious pine beetle attacks, which may make early harvest necessary. The GRAMOXONE paraqual treatment may encourage beetle attack, or may cause premature death of the tree. Desiccation of the xylein tissue, rather than the desired resin soaking, may occur, and is more likely at higher dosage rates.

Effect on Stem Growth:

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

Dilution Table for GRAMOXONE paraquat (_ lbs. cation per gallon) //

	To I Gal. of
Concentration of Cation	GRAMOXONE paraquat, add the
Desired (Wt./Wt. Basis)	following No. Gals. of Water:
0.7%	1188
0.5%	45.8
ነ 0%	22 9
20%	109
30% .	69
40%	49
. 50%	3.7

WORKER SAFETY RULES/ REENTRY STATEMENTS

USE STRICTLY IN ACCORDANCE WITH DANGER STATEMENTS AND DIRECTIONS, AND $-\tau^{\rm t}$ WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

DO NOT get on skin, eyes or clothing.

DO NOT inhale spray mist.

WASH SPLASHES from skin and eyes immediately.

REMOVE and wash contaminated clothing.

WASH before eating, smoking and drinking.

WEAR full face shield, rubber gloves and apron and waterproof footwear when handling or mixing concentrate.

WEAR waterproof lootwear and clothing when spraying or when contacting vegetation wet with spray.

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

AVOID working in spray mist. If there is 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 dult

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 Paraquat is far more severe than that which usually results from skin contact or inhalation of spray mist. No opportunity for mist or product to cause serious injury or death should arise when used in strict compliance with these rules but the opportunity may arise in case of gross violations so strictly follow all these rules as if your life depends as it.

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ENVIRONMENTAL SAFETY CAUTIONS

WILDLIFF

This product is toxic to wildlife. Birds and other wildlife in treated areas may be killed. Do not apply directly to water.

DRIFT

GRAMOXONE SWAA 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 until for sale, use, or consumption. Do not apply when weather conditions layor drift from areas treated For aerial applicators 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 digarette, 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 (overright) storage.

EQUIPMENT/CONTAINERS

Flush all spray equipment with water after use each day. GRAMOXONE SUFFR is corcosive 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.

STORAGE AND DISPOSAL

PROHIBITIONS

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

STORAGE

Store at temperatures above 32° F. Bo not contaminate feed, foodstuffs or drinking water. On 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 800/424 - 9300 -

PESTICIDE DISPOSAL

This product is acutely hazardous. Improper disposal of excess pesticide, spray mixture, or finate 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

See Container Label For Container Disposal Directions

CONDITIONS OF SALE: 1 ICI Americas for (ICIA) warrants that this material conforms to the chemical description on the label and is reasonably fallor use as directed herion. ICIA nowher makes, not authorizes any agent or representative to make, any other warrancy of FIINESS or MERCHANTABILITY, quarantee or representation, express or maked, concerning this material.

2 Critical and uniforeseeable factors beyond ICIA's control prevent at from elementing all risks in connection with the use of chemicals. Such risks include, but are not limited to, damage to plants and crups to which the material is applied, fack of complete control, and damage causably first to other plants or crops. Such risks occur even though the product is reasonably fit for the the uses stated lieteon and even though tabel directions are followed. Buyer and user acknowledge and assume all risks and kability (except those assumed by ICIA under I above) resolving from handling, storage and use of this material.



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