

CRN ONLY. For Kill of Existing Vegetation and Residual Weed Control Where Corn Will Be Planted Directly into a Cover Crop. Established Row or In-Row Crop Seedbeds.

Tank-Mix with Atrazine:

Apply 1 to 2 pts. of GRAMOXONE paraquat plus 2 1/4 to 3 1/4 lbs. of Atrazine 80 Wettable per acre, as a broadcast spray. Refer to atrazine label for directions, limitations and cautions. Apply 20 to 60 gals. diluted spray per acre. Add a 90% non-ionic spreader at 8 fl. oz. per 100 gals. diluted spray. Add atrazine to spray tank first, mixing thoroughly in water. Then add GRAMOXONE and surfactant. Constant agitation recommended at all times.

GRAMOXONE paraquat plus atrazine may be applied in liquid nitrogen and/or complete liquid fertilizer solutions when 25 or more gallons of dilute solution are applied per acre in combination with 1 to 2 pts. of a 90% non-ionic spreader per 100 gals. Equipment must be adjusted and calibrated to obtain thorough coverage of undesirable vegetation. Inadequate coverage and/or the absence of a 90% non-ionic spreader will result in a severe reduction of GRAMOXONE activity. Phosphate containing liquid fertilizer solutions will reduce the activity of GRAMOXONE. When liquid fertilizer solutions containing phosphorus are used with GRAMOXONE, and a rapid kill is desired, use the high GRAMOXONE label rate.

Tank-Mix with AATREX® 80W and PRINCEP® 80W:

Apply 1 to 2 pts. of GRAMOXONE paraquat plus 1 1/4 to 2 1/2 lbs. of PRINCEP 80W plus 1 1/4 to 2 1/2 lbs. of AATREX 80W per sprayed acre prior to, during, or after planting - but before crop emergence. Use the low rates of PRINCEP and AATREX on light soils, and the higher rates on heavy clay soils. Use 20 to 60 gals. of diluted spray per sprayed acre. Add a 90% non-ionic spreader at 8 fl. oz. per 100 gals. diluted spray. Add the AATREX to the spray tank while agitating, then add the PRINCEP, GRAMOXONE, and a 90% non-ionic spreader. Continue agitation during application. Refer to the AATREX and PRINCEP labels for specific precautionary statements.

Tank-Mix with BLADEX® 80W:

Apply 1 to 2 pts. of GRAMOXONE paraquat plus 1 1/4 to 5 lbs. of BLADEX 80W, depending upon soil type, as a broadcast spray. Apply 20 to 60 gals. diluted spray per acre. Add a 90% non-ionic spreader at 1 qt. per 100 gals. diluted spray. Add BLADEX 80W to spray tank first, mixing thoroughly in water. Then add GRAMOXONE and surfactant. Constant agitation recommended at all times. Do not mix with liquid fertilizer. Refer to BLADEX 80W label for directions, limitations and cautions.

GRAN® 80W/80DF: For Pre-plant and Residual Control of Annual Broadleaf Weeds and Grasses Where Soybean Will Be Planted Directly into Pre-plant Crop Seedbeds -

Apply 1 to 2 pts. of GRAMOXONE paraquat 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 label for directions, limitations, cautions and for a list of weeds controlled by pre-emergence activity of atrazine. Apply 20 to 60 gals. diluted spray per acre. Add a 90% non-ionic spreader 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 and a 90% non-ionic spreader. 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®: This tank mix should be used instead of GRAMOXONE + atrazine when better pre-emergence control of Barnyardgrass, crabgrass, and Fall panicum is desired.

Apply 1 to 2 pts. of GRAMOXONE paraquat plus 1 to 2 lbs. of Atrazine 80W or 1.5 to 3.2 pts. of Atrazine 4L plus 2 to 2 1/2 lbs. of IGRAN 80W per acre as a broadcast ground spray before, during or after planting but before crop emergence. Weed control is often superior from application made approximately one week prior to planting. Use low rates of atrazine and IGRAN on medium soils, and the higher rates on heavy soils. Refer to atrazine and IGRAN labels for directions, limitations, cautions and for a list of weeds controlled by pre-emergence activity of atrazine and IGRAN. The addition of 2,4-D (ester) at 0.5 lb. active per sprayed acre may aid in the suppression of perennial broadleaf weeds and annual broadleaf 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. Add a 90% non-ionic spreader at 16 to 32 fl. oz. per 100 gals. diluted spray. Use only water or nitrogen solutions as a carrier. Add IGRAN to spray tank first, mixing thoroughly in carrier. Then add atrazine, 2,4-D (if used), GRAMOXONE, and a spreader. Constant agitation recommended at all times.

The above list supplements lists a number of herbicides manufactured by companies other than E.I. du Pont de Nemours and Co. and registered in the U.S. and other countries.

- AATREX® is a registered trademark of E.I. du Pont de Nemours & Co.
- BLADEX® is a registered trademark of Shell Chemical Company.
- GRAN® is a registered trademark of E.I. du Pont de Nemours & Co.
- IGRAN® is a registered trademark of Monsanto Company.
- GRAMOXONE® is a registered trademark of E.I. du Pont de Nemours & Co.
- PRINCEP® is a registered trademark of E.I. du Pont de Nemours & Co.
- 2,4-D is a registered trademark of E.I. du Pont de Nemours & Co.
- 2,4-D (ester) is a registered trademark of E.I. du Pont de Nemours & Co.
- 2,4-D (if used) is a registered trademark of E.I. du Pont de Nemours & Co.
- 2,4-D (if used) is a registered trademark of E.I. du Pont de Nemours & Co.
- 2,4-D (if used) is a registered trademark of E.I. du Pont de Nemours & Co.

Please consult each appropriate label for specific use recommendations.

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EMERGED PERENNIAL WEEDS AND GRASSES: For KIF of Emerged Annual Broadleaved Weeds and Grasses and for Top Kill and Suppression of Emerged Perennial Weeds to Harvest Pasture - Apply 1 to 2 qts of GRAMOXONE per sprayed acre by ground application equipment. Use 50 to 150 gals spray mix per acre. Add a 90% non-ionic spreader at 8 fl oz per 100 gals spray mix. Use the higher rate with heavier weed infestations. Apply during the dormant season before buds in crown begin to grow. Do not make more than two applications per season.

POST-EMERGENCE PRE-EMERGENCE TREATMENT: Apply 1 to 4 pts of GRAMOXONE paraquat 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 1.0 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. **Band Application:** - 5 to 10 gals spray mix per acre. **Broad Application:** - 20 to 60 gals spray mix per acre. Add a 90% non-ionic spreader at 8 fl oz per 100 gals of diluted spray. 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.

POST-EMERGENCE PRE-EMERGENCE TREATMENT.

Test-Mix with LASSO and LOROX 50 WP.

This tank mixture for control of most emerged annual weeds, suppression of many emerged perennial weeds and pre-emergence control of many annual weeds when soybeans will be planted directly into a soybean crop, stale 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 pre-emergence, see the LASSO or LASSO EC and LOROX 50 WP labels. Refer to the LASSO or LASSO EC and LOROX 50 WP labels for precautionary statements, crop rotation restrictions, rates which are dependent upon soil textures, directions, limitations, and cautions.

Broadcast Treatment: Apply 1 to 2 pts of GRAMOXONE paraquat in this tank mixture in 20 to 60 gals water per acre immediately before, during or after planting but before crop emergence. Use the 2 pt rate if any weeds are 4 to 6 inches tall. This mixture 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 a 90% non-ionic spreader at 8 fl oz per 100 gals of diluted spray. First, add the LOROX 50 WP to the spray tank while agitating, then add the LASSO or LASSO EC, GRAMOXONE paraquat, and a 90% non-ionic spreader. Continue agitation during application.

POST-EMERGENCE PRE-EMERGENCE TREATMENT: For KIF of Emerged Annual Broadleaved Weeds and Grasses and for Top Kill and Suppression of Emerged Perennial Weeds to Harvest Pasture Directly into a Preferred Stale Seed Bed, Cover Crop, or in Previous Crop Residues.

Test-Mix with LOROX.

Apply 1 pt of GRAMOXONE paraquat plus 1 to 3 lbs of LOROX Lincron Weed Killer - 50 Wettable on sandy loam, 1 1/2 to 4 lbs on silt loam, 1 1/2 to 5 lbs on clay loam soils per sprayed acre as a band treatment over the crop row or as a broadcast treatment after planting - but before emergence of the crop. **Band Application:** - Apply 5 to 10 gals spray mix per acre. **Broad Application:** - Use 20 to 60 gals diluted spray. Add a 90% non-ionic spreader at 8 fl 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 application, compute amount of GRAMOXONE 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. Refer to the LOROX label for cautions. This herbicide tank mixture WILL NOT CONTROL rhizome johnsongrass.

Test-Mix with LASSO and SENCOR.

For Contact Control of Emerged Weeds and Pre-emergence Control of Emerged Pigweed and Cockspur, Fxtail, and Smilgrass: (This tank mix should be used instead of GRAMOXONE + LOROX or GRAMOXONE + SENCOR when better pre-emergence control of crabgrass and foxtail is desired.) Apply 1 to 2 pts of GRAMOXONE paraquat plus 2 to 2 1/2 qts of LASSO (4 lb/gal EC) plus 1/2 to 2 lbs of SENCOR 50 WP per acre as a pre-emergence 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 pt rate of GRAMOXONE if weeds are 4 to 6 inches tall. This mixture will not control weeds taller than six inches. Add a 90% non-ionic spreader at 8 fl oz per 100 gals of diluted spray. Add SENCOR to the spray tank first and mix thoroughly. Then add LASSO followed by GRAMOXONE and a 90% non-ionic spreader. Constant agitation is recommended at all times. Do not use treated vines for feed or forage.

Tank-Mix with SENCOR

For Contact Action on Emergent Weeds and Postemergence Control of Smartweed, Pigweed, and Cocklebur. (This tank mix should be used instead of GRAMOXONE + LORDX when infestations of a merged smartweed, pigweed, and cocklebur are present at application and when better postemergence control of these species is desired.)

Apply 1 to 2 pts. of GRAMOXONE paraquat plus $\frac{1}{2}$ to 2 lbs. of SENCOR 50 WP according to SENCOR label recommendations as a broadcast ground spray before, during, or after planting but before emergence of the crop. Use the 2 pt. rate of GRAMOXONE paraquat if weeds are 4 to 6 inches tall. This mixture will not control weeds taller than six inches. Apply in 20 to 60 gals. spray mix per acre. Add a 90% non-ionic spreader at 1 qt. per 100 gals. of diluted spray. Do not use treated vines for feed or forage.

Refer to the SENCOR label for cautions, limitations, and recommended rates for specific soil textures. In using minimum tillage equipment, it is important to observe the proper planting depth caution stated on the SENCOR label so application is not made directly onto the soybean seed.

Tank-Mix with SURFLAN and SENCOR or with SURFLAN and LEXONE. For Contact Action on Emergent Weeds and Postemergence Control of Smartweed, Pigweed, Lambquarters, Velvetleaf, Common Ragweed, Feral, and Fall Panicum. (This tank mix should be used instead of GRAMOXONE + LASSO + SENCOR, GRAMOXONE + SENCOR or GRAMOXONE + LORDX when longer residual control of feral and fall panicum is desired.)

Apply 1 qt. of GRAMOXONE paraquat plus 1 to 2 lbs. of SURFLAN 75 WP plus $\frac{1}{2}$ to 1 lb. of SENCOR 50 WP or LEXONE 50 WP 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 20-40 gals. spray mix per acre. Add a 90% non-ionic spreader at 8 fl. oz. per 100 gals. of diluted spray. Add SENCOR or LEXONE to the spray tank first and mix thoroughly. Then add SURFLAN followed by GRAMOXONE paraquat and a 90% non-ionic spreader. Constant agitation is recommended at all times. Do not use treated vines for feed or forage.

POTATOES (After Planting - Postemergence Treatment) Broad Application. Apply 1 to 2 pts. of GRAMOXONE paraquat per acre as a broadcast application in 30 to 100 gals. water. Add a 90% non-ionic spreader at 8 oz. per 100 gals. spray. **Aerial Application (With Sabote Bags) -** Apply 1 to 2 pts. per acre in 5 to 10 gals. of water. Add a 90% non-ionic spreader at 1 qt. 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 tracking 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. Postemergence cultivations should be performed as required to control subsequent weed and grass emergence.

KILL OF WEEDS IN VOLUNTEER BARLEY (With Sabote Bags) - Pre-plant in Corn, Pinks, Lettuce, Beans, Bellpepper, Sugar Beet, and Tomato Fields. Apply $\frac{1}{2}$ to 1 pt. of GRAMOXONE paraquat per acre broadcast as a preplant treatment to preformed seedbeds. **Aerial Application -** Use 5 to 10 gals. water per acre. Add a 90% non-ionic spreader at 8 oz. per 100 gals. diluted spray.

SEEDBED PREPARATION FOR ESTABLISHING GRASSES FOR BEER PRODUCTION - To Control Weeds and Broadleaf Weeds - Prepare the seedbed and allow weed seeds to germinate. When broadleaf weeds and annual grasses are at the 3 to 5 leaf stage apply 1 qt. of GRAMOXONE paraquat in 20 to 40 gals. water per acre (larger weeds will be less affected by this treatment). Add a 90% non-ionic spreader at 8 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.

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PASTURE AND RANGE RESEEDING

PASTURE AND RANGE RESEEDING: Suppression of Existing Sod and Grasses Emerged Broadcast
and Grazing to Permit Pasture and Range Reseeding - Apply recommended rates in water to make 15 to 75 gals. diluted mix per sprayed acre. Add 6 oz. of a 90% non-ionic spreader per 100 gals. spray. Apply broadcast or in bands over the drill row prior to or at time of seeding desired grasses and/or forage legumes. Apply as a band treatment when recovery of the sprayed sod is desired, such as in the case with desirable leucaea 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.

Mix of Carpet Grass, Bermuda Grass, and Sorghum - 1 to 2 pts. of GRAMOXONE paraquat per sprayed acre prior to, or at time of seeding grasses such as Hardpan grass and Palestine orchardgrass. Apply in October through December after first fall rains and after weeds have emerged 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 Mountain - 1 to 2 pts. of GRAMOXONE paraquat per sprayed acre 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 bermudagrass or bahiagrass sods. 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 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. Seeding grasses and forage legumes should be at least 6" tall, sudangrass must be 18" tall and sorghum-sudan 24" tall at first grazing. Under late fall or winter conditions, it may take 3 to 5 months for seeded grasses and/or legumes to reach recommended grazing height.

South and Southeast - Bermuda Grass or Bahiagrass Sods - Late Summer or Early Fall Application for Sod Suppression and Seeding Winter Annuals - Apply 1 qt. of GRAMOXONE paraquat 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. of a 90% non-ionic spreader per 100 gals. spray. Do not pasture in treated areas until 60 days after treatment or until winter annual seedlings are 6 inches tall.

BERMUDAGRASS PASTURES For the Suppression of Emerged Annual Broadleaf and Heavy Weeds Including Limb Barky, Brown Bittercay, and Carolina Geranium in Bermuda Bermudagrass Pastures - Apply 1 qt. per acre of GRAMOXONE paraquat in 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 live barley, apply before the mid boot stage. Add 1 qt. of a 90% non-ionic spreader per 100 gals. spray mix. Do not pasture or mow for hay until 40 days after treatment.

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ALFALFA, CLOVER

ALFALFA, CLOVER - Washington, Oregon, Colorado, Idaho, Montana, Utah, Nevada, Wyoming, and California (southern of Bol. Merit, Siskiyou, Madras, Hixson, Lassen, Plumas, Sierra and Nevada). Apply for Registration of Nysgrass, Bluegrass, Chestnut, Chickweed, and Tansy Mustard in Borneret Alfalfa and Clover. **Escape Annual Clover** - Apply 2 to 3 pts. of GRAMOXONE 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 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" 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 a 90% non-ionic spreader at 8 to 32 oz./100 gals. spray mix. 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.

ALFALFA For Use in 8 Weeks East of the Rockies and North of the Southern Borders of Colorado, Kansas, Missouri, Kentucky, and Virginia. Apply 2 to 3 pts. of GRAMOXONE paraquat per acre in 20 to 60 gallons water by ground equipment as a broadcast application for control of bluegrass, chickweed, henbit, and downy brome and suppression of perennial grasses including orchard grass, timothy, and smooth brome. Use 3 pt. 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 last fall cutting when the crop is dormant or before spring growth reaches one inch. 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 a 90% non-ionic spreader at 8 to 16 oz./100 gallons spray mix. Do not graze, cut, or harvest within 60 days of application. Do not apply more than once per season.

ALFALFA For Control of Bluegrass, John Bull Mustard, and Shepherdspurse and for Improved Control of Bluegrass, Chestnut, Chickweed, and Tansy Mustard. Apply 1 to 3 pts. of GRAMOXONE paraquat plus 1 to 2 lbs. of PRINCEP 80 W in 20 to 100 gals. spray mix per acre with ground equipment or 5 to 10 gals. spray mix per acre by air. Use the 1 pt. rate of GRAMOXONE when weeds and grasses are less than 4" tall. Refer to PRINCEP label for cautions, limitations, and recommended rates for specific soil types. Do not pasture animals in treated fields before first cutting. Do not graze, cut, or harvest within 90 days of application. Do not apply more than once per season.

Alfalfa for Control and Control of Seedling Weeds and Grasses in New Alfalfa Seedlings Grown for Hay (California Only).

For Control of	Use Rate Directions - For Suppression	GRAMOXONE Paraquat Per Acre For Control
Spikeweed (4 in. tall or less)	1/2 pt.	1 to 2 pts.
Volunteer Small Grain (8 in. tall or less)	1/2 to 1 pt.	2 pts.
Fiddleneck (6 in. tall or less)	1/2 to 1 pt.	2 pts.
Shepherdspurse	1 to 2 pts.	-
Annual Bluegrass	-	1 to 2 pts.
Chickweed	-	1 to 2 pts.
Red Maids (6 in. tall or less)	-	1 to 2 pts.

Apply as a broadcast ground application in 25 or 50 gals. spray mix per acre during late winter or early spring. Add a 90% non-ionic spreader at 16 oz./100 gals. spray mix. Do not use the 1/2 pt. rate unless the alfalfa has at least 3 trifoliate leaves, the 1 pt. rate unless the alfalfa has 5 trifoliate leaves, or rates over 1 pt. unless there are 8 trifoliate leaves. Alfalfa foliage present at time of application will be burned. Do not pasture animals in treated fields before first 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.**

HARVEST-AID USES

COTTON HARVEST AID

TO AID IN OPENING OF MATURE BOLLS AND TO DEHICATE GREEN LEAVES 1/2 pt. of GRAMOXONE paraquat in combination with 1 pt. of phosphate or 1 gal. of chlorate defoliant 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 GERMINATION AND OPENING OF MATURE BOLLS OF WESTERN COTTON (ARIZONA, CALIFORNIA) First Application - 1/2 to 1/4 pt. of GRAMOXONE paraquat plus 1 to 2 pts. of phosphate defoliant or 1 to 2 gals. of chlorate defoliant per acre. Use higher dosages on rank cotton. (Caution - Do not use more than 1/2 pt. of GRAMOXONE in initial application, as excessive 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 4.0 lbs. of actual sodium chlorate per acre or more than 1.5 lbs. of actual phosphate type defoliants per acre.

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Mode of Application - To Aid in Speeding of Matures Bolls at Harvest or Later Harvest: Treatment and to Desiccate Green Leaves - 1/2 to 1 pt. of GRAMOXONE paraquat per acre (in desert cotton areas or on rank vigorous cotton, use the 1 pt. rate only) or 1/2 to 1 pt. of GRAMOXONE plus 1 1/2 to 2 pts. of phosphate defoliant or 1 1/2 to 2 gals. of chlorate defoliant. Apply when 75% or more of the bolls are open and the remaining bolls to be harvested are mature. Development of immature bolls will be inhibited.

TO DESICCATE STRIPPED COTTON: 1 to 2 pts. of GRAMOXONE paraquat per acre. When foliage is dense, use 2 applications of 1 pt. 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 will be inhibited.

AERIAL APPLICATION - Apply 3 to 10 gals. spray mix per acre. Use a 90% non-ionic spreader at 1 pt. per 100 gals. spray mix. Do not apply during periods of thermal 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 a 90% non-ionic spreader at 1 pt. per 100 gals. spray mix. 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 slaughter. 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 pts. per acre. When combined with phosphate 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 7 days when used with phosphate or chlorate defoliant.

SOYBEAN - For Use as a Preharvest Crop Desiccant - Apply 1 qt. of GRAMOXONE paraquat in 20 to 30 gals. of water per acre. Add a 90% non-ionic spreader at 1 to 2 pts. 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 livestock.

POTATO VINES - PREHARVEST VINE KILLING - 1 to 2 pts. of GRAMOXONE paraquat per acre. Use the 2 pt. rate where vine growth is vigorous or where quick vine kill is desired or 2 applications of 1 pt. when vine growth is dense. Use the 1 pt. rate on maturing vines. Apply in 50 to 100 gals. water per acre with thorough coverage. Add 8 oz. of a 90% non-ionic spreader per 100 gals. water. Do not make more than 2 applications with a minimum of 5 days between applications. Do not apply GRAMOXONE to potatoes within 3 days before harvest. Do not pasture livestock in treated potato fields. To avoid injury to subsequent crops, do not use on much or past soils. Do not use GRAMOXONE for desiccating potato vines when the potatoes are to be stored or used for seed, as this use may result in tuber decomposition and failure of seed pieces to germinate and grow normally.

SOYBEAN HARVEST AID - Apply 1/2 to 1 pt. of GRAMOXONE paraquat per acre on broadleaf weeds and grasses. Use high rate on cocklebur. Add 1 qt. of a 90% non-ionic spreader per 100 gals. spray mix. Aerial Application - 2 to 5 gals. spray per acre. Ground Application - 20 to 40 gals. spray per acre. **Indeterminate Varieties:** Apply when at least 65% of the seed pods have reached a mature brown color or when seed moisture is 30% or less. **Determinate Varieties:** Apply when soybean plants are mature, i.e., beans are fully developed, at least 1/2 of leaves have dropped and leaves left on plants are turning yellow. Immature soybeans will be injured. Mature cockleburs, especially drought-stressed plants, are tolerant to GRAMOXONE and desiccation will not be complete. Do not pasture livestock within 15 days of treatment. Remove livestock from treated fields at least 30 days before slaughter.

SUNFLOWER (MILKWEED VARIETIES ONLY) - For Desiccation of Sunflower Plants and Broadleaf Weeds and Grasses in Facilities Harvesting. Apply 1 to 2 pts. of GRAMOXONE paraquat per acre in 5 gals. spray mix by air or in 20 to 40 gals. by ground application equipment. Use the higher rate when crop stands or weed infestations are heavy. Apply when the sunflower seeds reach physiological maturity (when the heads are yellow and bracts are turning brown) and harvest 7 to 21 days after application. Add a 90% non-ionic spreader at 1 qt. per 100 gals. water. Do not graze treated areas or feed treated forage to livestock.

GRAMOXONE - Preharvest Crop Desiccant (Florida and Texas Only) - Apply 1/2 to 1 pt. of GRAMOXONE paraquat per acre. Apply to mature plant or stubble cane using 4 to 10 gals. water per acre. Use higher rate under cool, cloudy weather conditions. A 90% non-ionic spreader should be added to all sprays at the rate of 1 pt. per 100 gals. water. Apply with aircraft sprayer 3 to 14 days before burning and harvest. For rapid results, apply when weather is clear and warm. Apply as a coarse spray at low pressure when air is calm to prevent spray drift.

DIRECTED SPRAYS

ORCHARDS, VINEYARDS, BIRDSEED, GRAPE, AND ORNAMENTAL TREES For Control of Broadleaf Weeds and Grasses and For Top Kill and Suppression of Perennials and Green Suckers under Fruit Trees in the Interspaces and Around the Base of Trees and Vines - Almonds, Apples, Apricots, Avocado, Hazelnut, Cherry, Citrus, Coffee, Figs, Filberts, Grapes, Macadamia Nuts, Nectarines, Olives, Peaches, Pecans, Pears, Persimmons, Plums, Prunes, Walnuts, and other Trees such as Arbutus, Ash, Elm, Fir, Oak, and Pine - Apply as a directed spray at 1 to 2 qts. of GRANDKONE paraquat per sprayed acre in 50 to 100 gal's water (use 30 to 50 gal's water for pecans) to thoroughly cover the weeds and grasses. Use a 80% non-ionic spreader at 8 oz. per 100 gal's. Apply when the weeds and grasses are succulent and the new growth is from 1 to 6 inches high. For mature woody weeds, green suckers, 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 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 nuts to be harvested are on the ground. **ALMONDS, GRAPES AND WALNUTS (California Only)** **ORANGES (California and Florida Only)** **SOBELETTES (Michigan Only)** **APPLES, PEACHES, PERSIMMONS, PEARL PRINCEP™ 80 W** Broadleaf Weed Killer - For Top Kill and Control of Annual Broadleaf Weeds and Grasses and for Suppression of Perennial Weeds - For broadcast application apply 1 to 2 qts. of GRANDKONE paraquat per acre and PRINCEP at the following rates per acre:

Crop	Rate PRINCEP™ 80 W Per Sprayed Acre	Precautions
Almonds and Peaches (California Only)	1 1/2-2 1/2 lbs. in 2-4 ft. band on north side of tree row. 1 1/2 lbs. provides residual control of burclover, common chick- weed, wild mustard and shepherdspurse.	Do not treat trees established less than 3 years. Do not treat Mission variety of almonds. Do not apply to almond trees propagated on plum root stocks. Do not replant almonds or peaches in treated soil. Do not apply on gravelly sand or loamy sand soil or on soil with less than 1% organic matter. Do not treat areas where water will accumulate.
Apples Pears Sour Cherries (Michigan Only) Walnuts (California Only)	2 1/2-5 lbs.	Do not apply to sandy soil. Landing and fu-towing opera- tions after application will lessen effectiveness of weed control.
Cherries areas, Louisiana, Missouri, Oklahoma, Texas and states East of the Mississippi River)	2-5 lbs.	Do not apply to sandy or gravelly soil.
Grapes (California Only)	2 1/2-5 lbs.	Do not use in vineyards es- tablished less than 3 years.
Oranges (California Only) Except Imperial, Coachella and Palo Verde Valleys (Florida Only) - Bedded	2 1/2-5 lbs. 4 lbs.	Do not use in nurseries. To avoid possible injury, do not apply to trees under stress from freeze damage for one year following the freeze.

Use low rate of PRINCEP on coarse textured soils and low organic matter soils. Use the high rate on fine textured soils and high organic matter soils. Apply as a tank mix in 50 to 200 gal's of water per acre to the orchard floor avoiding contact with fruit, foliage or stems. Add a 80% non-ionic spreader at 8 fl. oz. per 100 gal's diluted spray. Apply when weeds and grasses are succulent and the new growth is from 1 to 6 inches tall.

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 or more. Do not spray under windy conditions and use a shield for young trees. Do not apply to almonds and walnuts when nuts are on the ground during the harvest period. Do not allow animals to graze treated areas.

Refer to the PRINCEP™ 80 W label for general information, caution and warning statements.

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BEETS (Washington, Oregon and Idaho Only) - For Efficacy Against Broadleaf Weeds, Smartweed, and Chickweed - Apply as a directed spray in the interspaces and around the base of hop plants using 1 qt. of GRAMDAXONE paraquat in 20 to 100 gals. water per acre to thoroughly cover weeds and grasses. Add a 90% non-ionic spreader at 8 fl. oz. 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 Rooting and Stripping (Colorado, Idaho, Oregon, and Idaho Only) - Spray only basal 2 ft. of vines using 1 qt. in 20 to 100 gals. water per acre. Add a 90% non-ionic spreader at 8 fl. 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 injury may result. Do not allow animals to graze in treated hopyards. Hop vine refuse and silage may be fed to livestock.

BEANS - Apply as directed spray at 2 qts. of GRAMDAXONE paraquat per sprayed acre in 50 to 200 gals. to thoroughly cover the weeds and grasses. Add a 90% non-ionic spreader at 8 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 injury may result. Do not spray under windy conditions and use a shield for young trees. Do not allow animals to graze on treated areas.**

BANISH FRUIT - Apply as a directed spray at 2 qts. of GRAMDAXONE paraquat per sprayed acre in 50 to 200 gals. to thoroughly cover the weeds and grasses. Add a 90% non-ionic spreader at 8 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 injury may result. Do 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 GRAMDAXONE only after picking fruits off the ground. Do not allow animals to graze on treated areas.**

BREWERIES - For Efficacy Against Broadleaf Weeds and Grasses and Top Kill and Suppression of Perennials - Apply as a directed spray using 1 to 2 qts. of GRAMDAXONE paraquat in 100 to 200 gals. water per sprayed acre to thoroughly cover the weeds and grasses. Add a 90% non-ionic spreader at 8 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, Raspberries, Huckleberries) - For Efficacy Against Broadleaf Weeds and Grasses and for Top Kill and Suppression of Perennial Weeds in the Interspaces and Around the Base of Berries - Apply as a coarse directed spray at 1 to 2 qts. of GRAMDAXONE paraquat per sprayed acre in 50 to 200 gals. water to thoroughly wet the weeds and grasses. Add a 90% non-ionic spreader at 8 oz. per 100 gals. water. Apply before emergence of new canes or shoots as injury to those canes or shoots can result. Apply as a coarse spray to avoid drift injury from fine spray mist.

GRAIN SORGHUM, Postemergence Directed Spray - For Efficacy Against Crabgrass and Pigweed 3' or Less in Height - 1 to 2 pts. of GRAMDAXONE paraquat in 20 to 40 gals. water per sprayed acre. Use higher gallonage of water for larger weeds. For band applications, 1 pt. of GRAMDAXONE paraquat will cover 2 band or crop acres when a 20 inch band is treated in 40 inch rows. Treat when grain sorghum is naturally standing 12 inches tall or more. Add a 90% non-ionic spreader at 1 qt. per 100 gals. of spray. Do not exceed 30 psi, high pressure contributes to spray drift. For best results apply GRAMDAXONE paraquat at 1 pt. per sprayed acre to grass and weeds less than 2 inches tall. Grass and weeds 2 to 3 inches tall should be sprayed with 2 pts. of GRAMDAXONE per sprayed acre. Use precision application equipment with spray nozzles mounted on skid shoes, sliding shoes, tenders, 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 flat fan 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 an outer sheath. Degree of injury is related to precision of application and wind velocity. Do not spray under windy conditions.

FIELD CORN Postemergence Directed Spray Using GRAMOXONE paraquat Alone or GRAMOXONE paraquat + AATREX Test-Mix - For Control of Emerged Annual Broadleaf Weeds and Annual Grasses Less than 4 Inches Tall - Apply 1 qt. of GRAMOXONE paraquat per acre in 20 to 40 gals. 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 whorl. Apply with directed spray application equipment. Arrange nozzles 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 a 90% non-ionic spreader per 100 gals. of spray. Do not mix with liquid fertilizer. For Improved Control of Weeds, Especially Broadleaves, Test-Mix GRAMOXONE paraquat and AATREX. Add 1/2 to 1 1/2 lbs. of AATREX 80 W or 1 to 2 pts. of AATREX 4L in combination with 1 qt. GRAMOXONE paraquat per acre. Add AATREX 80 W or AATREX 4L to spray tank first, mixing thoroughly in water. Then add GRAMOXONE and non-ionic surfactant. Constant agitation recommended at all times. Refer to AATREX labels for limitation cautions. Do not graze treated areas or feed treated forage to livestock.

CRAB GRASS - For use in the USDA switchweed eradication program to kill grassy weeds. Apply 1 qt. of GRAMOXONE paraquat in 10 to 20 gals. spray per acre. Add 1 lb. of VISTIG per 100 gals. water. Apply as a spray directed onto the grassy weeds at the base of the corn stalks in the hills or row between sprays in early July and repeat in early August if regrowth of grassy weeds occurs. Do not graze livestock in treated area.

SOYBEANS Postemergence Directed Spray - For Control of Seedling Johnsongrass, Crabgrass, Goosegrass, Barnyard, Echinochloa spp. (Tassel Millet) and Pigweed Less than 2 Inches Tall - Apply GRAMOXONE paraquat at 4 fl. oz. (0.63 lb active) per acre. Use proportionately less for band treatment. For example on 40 inch rows and 16 inch band apply 1 gal. of GRAMOXONE paraquat to 80 acres. For 2 to 4 inch grass and 2 to 3 inch pigweed apply GRAMOXONE paraquat at 8 fl. oz. (1.25 lb active) per acre. For example on 40 inch rows and 16 inch band apply 1 gal. of GRAMOXONE 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 gals. spray mix per treated acre. Use proportionately less for band treatments. For example 8 gals. spray mix per 16 inch band on 40 inch rows. For best coverage use 4 flat fan nozzles per row, 2 nozzles on each side of row. The two forward nozzles should point forward and downward and rear nozzles should point to the rear and downward. Do not exceed 30 psi, high pressure contributes to drift. Adjust nozzles to spray no higher than the lower three inches of the soybean plant. Do not treat if soybeans are below 8 inches. Soybeans treated topically will be killed. Add a 90% non-ionic spreader at 1 to 2 qts. per 100 gals. of spray. Do not graze treated areas or feed treated forage to livestock.

WHEAT - Directed Spray For Kill of Emerged Annual Broadleaf Weeds and Grasses and for Top Kill of Perennial's - Apply as a shielded or directed spray when weeds are 2 to 8 inches 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 8 inches high. Add a 90% non-ionic spreader at 8 fl. oz. per 100 gals. spray mix.
Florida Belt - Apply 1 qt. of GRAMOXONE paraquat in 50 to 100 gals. of water per acre. For optimum 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.
Missal Belt - Apply 1 qt. of GRAMOXONE paraquat in 20 to 200 gals. of water per acre. Do not apply after cane rows have closed in.
Louisiana Belt - Apply 1/2 to 1 qt. of GRAMOXONE paraquat in 20 to 200 gals. of water per acre. For tiller control apply when tillers are less than 18" high. Use the higher rate of GRAMOXONE which heavier weed infestations or tiller growth. Do not apply within 30 days of harvest.

TOMATOES AND PEPPERS (Mid. & Atlantic, Southeast, South Central Regions, and Southwest to the Western Boundary of Texas) Postemergence Directed Spray - For EM of Emergent Annual Broadleaf Weeds and Prostrate and Low Yag EM and Suppression of Emergent Perennial Weeds between Plastic Mulched Covered Beds after Crop Plant Emergence or Establishment - Apply as Directed spray using 1 qt. of GRAMOXONE paraquat per sprayed acre in 20 to 100 gals. spray mix. Apply with conventional ground equipment directing spray between the rows and using shields to prevent spray contact with crop plants. Add a 90% non-ionic spreader at 8 fl. 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 pepper plants as injury or excessive residues may result. Do not apply more than 3 applications per crop season. Do not allow animals to graze on treated areas.

NONCROP USES

NONCROP AREAS (Highway, including Federal, State, County, and Township Highways, Roads, Bridges, and Medians, Public Airports, Railroads, Electric Billions (including Transformers, Stations and Substations), Pipelines (including Pumping Stations) and Other Areas used for Aerial Commercial Buildings, Storage Yards and Other Installations, Fences, Lines, Pathways and Similar Areas) - For the Control of Annual Broadleaf Weeds and Grasses (such as Barnyard, Chickweed, Flame, Groundsel, Mistle, Pigweed, Plantain, Purslane, Purslane, Red Clover, Sida, Sorghum, Thistle, Wild Mustard, Wild Radish, Wild Sida, Star Grass, Cheat Grass, Crabgrass) and Tap Root and Suppression of Perennial Weeds (such as Bermuda Grass, Johnsongrass, and Sorghum) - 1 to 2 qts. of GRAMOXONE 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 a 90% non-ionic spreader at 8 fl. oz. per 100 gals. GRAMOXONE is compatible with many residual herbicides. Avoid spray contact with foliage or fruit of food crops and ornamentals.

RESIN SOAKING

RESIN SOAKING IN PINES (Loblolly, Shortleaf, Longleaf, Slash, Virginia, Food, 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 paraquat on pines is accentuated during such periods, causing a reduction in the amount of oleoresin deposited in the xylem. Select trees to be treated from vigorous, non-stagnated stands either natural or planted. In stagnated stands or commercial timber stands, pine treating with GRAMOXONE paraquat not sooner than three years after a commercial thinning.

Application Directions - Apply GRAMOXONE paraquat diluted in water (0.2% to 5% cation, 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 Strips or Cuts - This type of wound is made using a standard or rotary bark hack or a chainsaw chipping tool employed in usual stores work to remove a single one-inch wide streak of bark about 2 feet from ground level. The total length should not exceed 1/3 of the tree circumference. Multiple streaks or cuts can result in serious girdling of the trunk and premature death of the tree. A coarse spray (about 2 to 5 ml) of GRAMOXONE paraquat solution (1% to 5% cation, wt./wt. basis) should be applied to runoff in the exposed xylem 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 length of cut or streak (1/3 of circumference). For a 9-inch diameter tree, 3 ml of spray will cover the 1 inch wide streak. Using 3 ml of a 2% or 4% paraquat solution will result in application of 60 or 120 mg paraquat per streak.

Tree Injections - Pressure injections of 1% to 4% GRAMOXONE paraquat solution (cation, 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 1/3 of the tree circumference or no closer than 3 inches apart all around the tree. From 0.2 ml to 0.4 ml of GRAMOXONE solution is applied per injection. Using 2% to 4% paraquat solution, this results in 36 to 144 mg paraquat applied per 9-inch diameter tree. For holes spaced 1 inch apart around 1/3 of the tree or 3 inches apart all around the tree.

Bore Holes - 1/4 to 1/2 inch diameter holes 2 to 6 inches deep, depending on tree diameter, are bored sloping slightly downward and tangentially inward rather than directly towards the center of the tree. Solutions of 0.3% to 5% 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 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 paraquat per tree. Bore hole applications in the range of 45 to 100 mg paraquat per tree have resulted in effective oleoresin induction.

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

Interval Between Treatment and Tree Harvest - The interval between application of GRAMOXONE paraquat 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 treatment may encourage beetle attack, or may cause premature death of the tree. Desiccation of the xylem tissue, rather than the desired resin soaking, may occur, and is more likely at higher dosage rates.

Effect on Tree Growth - GRAMOXONE paraquat treatment can result in reduced stem growth during the interval between treatment and tree harvest.

Dilution Table for GRAMOXONE paraquat (2 fl. oz. cation per gallon)

Concentration of Solution (wt./wt. Basis)	To 1 Gal. of GRAMOXONE paraquat, add the following no. Gals. of Water:
0.2%	118.8
0.5%	46.8
1.0%	22.9
2.0%	10.9
3.0%	6.9
4.0%	4.9
5.0%	3.7

WORKER SAFETY RULES

Avoid contact. Follow these pesticide safety rules when handling this product.

USE STRICTLY IN ACCORDANCE WITH WARNINGS STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

WASH SPLASHES from skin and eyes immediately.
REMOVE and wash contaminated clothing.
WASH before eating, smoking, and drinking.

CONCENTRATE/MIXTURE

Wear full face shield, rubber gloves, and apron when handling concentrate.

SPRAY APPLICATION

When working in spray mist, if there is risk of exposure, wear goggles and approved face mask.
Wear waterproof footwear and clothing when spraying or when contacting vegetation wet with spray.

WARRANTY OF SALE: ICI Americas Inc. (ICI) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed thereon. ICI neither makes nor authorizes any agent or representative to make any other warranty of FITNESS OR MERCHANTABILITY, guarantee or representation, express or implied, concerning this material.
2. Critical and unforeseeable factors beyond ICI's control prevent it from preventing all risks in connection with the use of this material. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete 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 thereon and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by ICI under 1 above) resulting from handling, storage and use of this material.

ENVIRONMENTAL SAFETY CAUTIONS

WILDLIFE

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

DRIFT

GRANDXONE paraquat 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 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 cigarette, or other ignition source. Do not mix or store in containers, spray tanks, hose 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/CONTAINERS

Flush all spray equipment with water after use each day. GRANDXONE paraquat 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. WASH and destroy containers when empty - never reuse.
DO NOT CONTAMINATE water when cleaning equipment or disposing of wastes. Apply this product only as specified on this label.

STORE AT TEMPERATURES ABOVE 32°F.

Do not use containers for feedstuffs or drinking water.
Do not store next to feed or food, or transport in or on vehicles containing foodstuffs or feeds.

ICI Americas Inc.
Agricultural Chemicals Division
Wilmington, Delaware 19897
EPA Reg. No. 10182-74
ACD 780-04 408



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.

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POISON

**DO NOT POUR FROM ORIGINAL CONTAINER
EXCEPT FOR IMMEDIATE USE.
ONE SWALLOW CAN KILL!**



SUPPLEMENTAL PAMPHLET

**DIRECTIONS FOR USE.
READ WORKER SAFETY RULES**

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**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**

A Weed and Grass Killer - Karsaal Aid Chemical.

Active Ingredient	By Wt.
Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride)	28.1%
Inert Ingredients	71.9%
Contains 2 lbs. Paraquat concentration per gallon.	
Total	100.0%



DANGER

**CAN KILL IF SWALLOWED
HARMFUL TO THE EYES AND SKIN**

FIRST AID TREATMENT:

- IF SWALLOWED**
Immediately induce vomiting by inserting finger in throat. Administer fluids and induce further vomiting. Get to a hospital or physician fast.
PROMPT TREATMENT IS ESSENTIAL. Symptoms of injury may be delayed.
- SKIN CONTAMINATION**
In case of contact, wash immediately with water. Remove clothing and wash skin where necessary. Prolonged contact will cause severe irritation. Repeated contact may increase danger of absorption.
- EYE CONTAMINATION**
In case of contact, wash thoroughly with water and get medical attention.
- INHALATION**
DO NOT BREATHE SPRAY MIST
Exposure to spray mist may cause irritation and nose bleeds. Stop and check spray procedure.

See all Pesticides. Emergency Information - call (302) 575-3000

**WASH AND DESTROY CONTAINER
WHEN EMPTY. NEVER REUSE.**



DANGER
CAN KILL IF SWALLOWED
HARMFUL TO THE EYES AND SKIN

FIRST AID TREATMENT

IF SWALLOWED
Immediately induce vomiting by inserting finger in throat. Administer fluids and induce further vomiting. Go to a hospital or physician fast. **PROMPT TREATMENT IS ESSENTIAL.** Symptoms of injury may be delayed.

SKIN CONTAMINATION
In case of contact, wash immediately with water. Remove clothing and wash skin when necessary. Prolonged contact will cause severe irritation. Repeated contact may increase danger of absorption.

EYE CONTAMINATION
In case of contact, wash thoroughly with water and get medical attention.

INHALATION
Do not breathe spray mist.
Exposure to spray mist may cause irritation and nose bleed. Stop and check spray procedure.

Note to Physicians: Emergency Information - call (302) 375-3000

CONDITIONS OF SALE: ICI America, Inc. (ICI) warrants that this material conforms to the chemical description on the label. It is reasonably fit for use as directed hereon. ICI neither makes, nor authorizes any agent or representative to make, any other warranty of **FITNESS** or of **MERCHANTABILITY**, guarantee or representation, express or implied, concerning this material.

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

ACD-788-B

POISON

DO NOT REMOVE EXCEPT FOR IMMEDIATE USE.
ONE SWALLOW CAN KILL!



**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.

Active ingredients:	By wt.
Paraquat dichloride (1,1-dimethyl-4,4'-bipyridinium dichloride)	20.1%
Inert ingredients:	79.9%
Total 100.0%	

Contains 2 lbs. Paraquat active per gallon.

**NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS
CAN KILL IF SWALLOWED.
KEEP OUT OF REACH OF CHILDREN
DO NOT USE OR STORE IN OR AROUND THE HOME**



DANGER

READ FIRST AID AND SAFETY RULES ON USE PANELS

NET CONTENTS 1 GALLON
A Weed and Grass Killer - Harvest Aid Chemical

BEST DOCUMENT AVAILABLE

GRAMOXONE® Paraquat

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. READ ENTIRE LABEL.

USE 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.

Refer to Supplemental Pamphlet for Use Directions.

WORKER SAFETY RULES

Avoid accidents. Follow these pesticide Safety rules when handling this product.

WASH SPLASHED from skin and eyes immediately.

REMOVE and wash contaminated clothing.

WASH before eating, smoking and drinking.

CONCENTRATE/MIXING

Wear full face shield, rubber gloves and apron when handling concentrate.

SPRAY APPLICATION

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

Wear waterproof footwear and clothing when spraying or when contacting vegetation wet with spray.

ENVIRONMENTAL SAFETY LISTINGS

WILDLIFE

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

DRIFT

GRAMOXONE Paraquat is a contact herbicide that kills all green plant tissue. Do not apply under conditions favoring possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for use, 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 combustible gas mixture. Such gas could flash or explode, causing serious personal injury. It is ignited by open flame, spark, welders torch, lighted cigarette or other ignition source. Do not mix or store in containers, spray tanks, ketchup 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 they are not to be used for extended (overnight) storage.

EQUIPMENT/CONTAINERS

Flush all spray equipment with water after use each day. GRAMOXONE Paraquat is corrosive to aluminum. Aluminum spray equipment and aluminum structural parts that are exposed to spray solution or spray drift should be flushed thoroughly with water immediately after use.

WASH and decontaminate water when cleaning equipment or disposing of wastes. Apply this

product only as specified on this label.

STORE AT TEMPERATURES ABOVE 32° F.

Do not contaminate feed, fertilizers or drinking water.

Do not store next to food or food, or transport in or on vehicles, including feedstuffs or trucks.



ICI America Inc.
Agricultural Chemicals Division
Wilmington, Delaware 19897
EPA Reg. No. 10182-74
EPA Est. 230-MO-1

BEST DOCUMENT AVAILABLE

