

12069H8-1/53

RESTRICTED USE PESTICIDE

due to ground water concerns. 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.

INTRRO®

Preemergent Herbicide

By Monsanto

Emulsifiable herbicide for weed control in soybeans, peanuts, grain sorghum (milo) and crops listed.



Department of Agriculture
STATE OF HAWAII

(91)012069098153

Department of Agriculture
STATE OF HAWAII

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PERIOD **2015-2017** LIC. NO.

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Complete Directions for Use

EPA Reg. No.524-314



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Department of Agriculture
STATE OF HAWAII

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PERIOD **2009-2011** LIC. NO.

12069H8-1/53

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INTRRO[®]

Preemergent Herbicide

By Monsanto

Emulsifiable herbicide for weed control in soybeans, peanuts, grain sorghum (milo) and crops listed.

The use of this product may be hazardous to your health. This product contains alachlor, which has been determined to cause tumors in laboratory animals.

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

Complete Directions for Use

EPA Reg. No. 524-314

For use of this product in California see page 64.

Not for use in Nassau and Suffolk counties of New York.

LIMIT OF WARRANTY

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Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

LIMIT OF WARRANTY AND LIABILITY

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

To the extent consistent with applicable law, buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

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

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE,

STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

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

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

DANGER! PELIGRO!

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

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.

CAUSES SKIN IRRITATION. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. This product may cause skin sensitization reactions in some people.

HARMFUL IF SWALLOWED.

HARMFUL IF INHALED.

Avoid breathing vapor or spray mist.

Do not get in eyes, on skin or on clothing.

FIRST AID

| | |
|-------------------------------|---|
| IF IN EYES | <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.• Remove contact lenses if present after the first 5 minutes then continue rinsing eye.• Call a poison control center or doctor for treatment advice. |
| IF ON SKIN OR CLOTHING | <ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 - 20 minutes.• Call a poison control center or doctor for treatment advice.• Sensitized persons should avoid further contact and reuse of contaminated clothing. |

IF SWALLOWED

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF INHALED

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
- In case of an emergency involving this product, Call Collect, day or night (314) 694-4000.
- This product is identified as **INTRRO® Preemergent Herbicide, EPA Registration No. 524-314.**

NOTE TO PHYSICIAN

- This product may pose an aspiration pneumonia hazard. Contains petroleum distillate.
- Probable mucosal damage may contraindicate the use of gastric lavage.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or viton. If you want more options, follow the instruction for category H on an EPA chemical-resistance category selection chart.

Mixers and loaders using engineering controls and applicators must wear: long-sleeved shirt and long pants; shoes and socks; and goggles or face shield.

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In addition to the above, mixers and loaders and other persons must wear: chemical-resistant gloves and chemical-resistant apron when cleaning equipment.

Mixers and loaders not using engineering controls and all other handlers exposed to the concentrate must wear: coveralls over short-sleeved shirt and short pants, socks and chemical-resistant footwear, goggles or face shield, chemical-resistant gloves, and chemical-resistant apron.

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

Engineering Control Statement: Mixers and loaders supporting aerial applications, chemigation, or impregnation of dry bulk fertilizer are required to use a mechanical transfer system designed by the manufacturer to transfer liquid pesticide in a manner that prevents the liquid (but not necessarily any vapor) from contacting handlers and other people during the transfer. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4)].

IMPORTANT: Mixers and loaders using closed systems must: (1) wear PPE specified above for mixers and loaders using engineering controls, and (2) must be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown, the following PPE: Coveralls, chemical-resistant footwear.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This chemical is toxic to terrestrial and aquatic plants, fish, and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas.

Alachlor can contaminate surface water through spray drift. Under some conditions, alachlor may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several weeks post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water. Do not apply to water or to areas where surface water is present, or to intertidal areas below the mean high water mark.

Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Check valves or anti-siphoning devices must be used on all mixing and/or irrigation equipment. Disposal of excess pesticide, spray mixtures or rinsate must be according to label use instructions or according to the state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office.

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

This chemical and/or its metabolites are known to leach through soil into ground water under certain conditions as a result of registered uses. Use of this chemical in areas where soils are permeable, particularly where the water table is too shallow, may result in ground water contamination.

Do not apply to highly permeable soils (as classified by the USDA Natural Resources Conservation Service) where the depth to ground water is 30 feet or less.

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Physical or Chemical Hazards

COMBUSTIBLE.

Do not use or store near heat or flame.

Use only with adequate ventilation.

In case of FIRE, use water spray, foam, dry chemical or CO₂.

SPILL or LEAK, soak up, remove and keep away from humans and domestic animals.

ACTIVE INGREDIENT:

*Alachlor, 2-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide..... 45.1%

OTHER INGREDIENTS:..... 54.9%
100.0%

Contains petroleum distillates.

*Contains 480 grams per liter or 4 pounds per gallon of 2-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions for Use on this label or in separately published Monsanto Supplemental Labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and restricted-entry interval. The

requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

This product may not be mixed or loaded within 50 feet of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be mixed/loaded or used within 50 feet of all wells, including abandoned wells (unless the well has been properly capped or plugged), drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain a minimum of 110 percent of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size capacity to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100 percent of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

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DIRECTIONS FOR USE

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- Rotate the next cropping season to sunflower, cotton, soybeans, peanuts, dry beans, lima beans, woody ornamentals and the following cereal grain crops (except rice)—corn (all types), sorghum, wheat, barley, buckwheat, millet (pearly and proso), oats, rye, teosinte, triticale and wild rice. You may also rotate to the following non-grass animal feed crops—alfalfa, *clover spp.*, *lespedeza spp.*, *lupin spp.*, sainfoil, *trefoil spp.*, *vetch spp.*, crown vetch and milk vetch spp.
- Do not apply more than 4 pounds of alachlor active ingredient per acre per year. This is equivalent to 4 quarts of this product per acre per year.

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

Storage and Disposal

Proper pesticide storage and disposal are essential to protect against exposure to people and the environment due to leaks and spills, excess product or waste, and vandalism. Do not allow this product to contaminate water, foodstuffs, feed or seed by storage or disposal.

PESTICIDE STORAGE: STORE ABOVE 32° F TO KEEP PRODUCT IN SOLUTION. Below 32° F crystals may form and settle to the bottom. If crystals form, place in a warm room and roll and/or shake the container frequently to redissolve before using. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep container closed to prevent spills and contamination.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container, including rinsate, by application in accordance with label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program. Such programs are often run by state or local governments or by industry. All disposal must be in accordance with applicable Federal, state and local regulations and procedures.

CONTAINER HANDLING AND DISPOSAL: See container label for container handling and disposal instructions and refilling limitations.

PRODUCT INFORMATION

INTRRO Preemergent Herbicide is recommended for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. This product may be applied either as a surface application before or after planting or shallowly incorporated prior to planting to blend the herbicide treatment into the upper 1 to 2 inches of soil. The seedbed should be fine, firm and free of clods when tillage is performed.

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

Do not flood irrigate following application of this product or tank-mixtures. This product will not control emerged seedlings.

Do not apply when conditions favor drift.

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

Flush sprayer with clean water after use.

SOIL TEXTURAL GROUP

Applicators must evaluate soil and weed conditions carefully to ensure that they choose the lowest effective label rate.

The use rates of this product and the other herbicides labeled for use in tank-mixtures with this product generally vary with soil texture. Unless soil texture is specifically named, rate tables throughout this label refer to only three soil textural groups: coarse, medium and fine. The following is a complete listing of soil textures included in each of these three soil textural groups:

| SOIL TEXTURAL GROUP | SOIL TEXTURE |
|---------------------|--|
| COARSE | sand, loamy sand, sandy loam |
| MEDIUM | loam, silt loam, silt, sandy clay loam |
| FINE | silty clay loam, clay loam, sandy clay, silty clay, clay |

Refer to the above table to determine the corresponding soil textural group for the soil to be treated.

MIXING, SPRAYING AND HANDLING INSTRUCTIONS

NOTE

The use of a mechanical transfer system is required by all mixer/loaders and/or applicators that treat 300 acres or more annually with pesticides containing alachlor as an active ingredient.

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

2.5 Gallon Containers

Open pouring from these containers can result in exposure from splashing or spilling. Special care in lifting and pouring is strongly recommended.

55 Gallon and Bulk Containers

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

Equipment Cleaning and Repair

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

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

Mixing Instructions

Always predetermine the compatibility of this product or labeled tank-mixtures of this product with water carrier or sprayable fluid fertilizer carrier by mixing small proportional quantities in advance. See the "STANDARD SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST" section in this label to determine the compatibility of this product and the labeled tank-mixtures recommended for use with sprayable fluid fertilizer carrier.

NOTE: This product and all tank-mixtures listed for sorghum and soybeans

in the "DIRECTIONS FOR USE" section may be applied in sprayable fluid fertilizers. DO NOT apply this product or labeled tank-mixtures of this product in sprayable fluid fertilizers on any other crops.

Mix this product or labeled tank-mixtures of this product with the appropriate carrier as follows:

1. Place a 20- to 35-mesh screen or wetting basket over filling port.
2. Through the screen, fill the sprayer tank one-half full with the appropriate carrier.
3. If a compatibility agent is necessary to improve mixing or to prevent the formation of undesirable and unsprayable gels or precipitates, while agitating add it to the carrier already in the tank. Use only compatibility agents, cleared by FDA for this use. Read and follow all directions for use, cautionary statements and all other information appearing on the selected compatibility agent label. Check for adequate agitation.
4. If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Continue agitation.
5. If a flowable formulation is used, add slowly through screen into the tank. Mixing and compatibility may be improved when flowable is premixed one part flowable with one part water and added to the tank in diluted form.
6. Add this product slowly through the screen into the tank. Mixing and compatibility may be improved when this product is prediluted with two parts of water and added to the tank in diluted form.
7. Complete filling the sprayer tank with carrier. If a Roundup® agricultural herbicide or Gramoxone brand herbicide is used, add the required amount near the end of the filling process. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source.

Maintain good agitation at all times until the contents of the tank are sprayed. **NOTE:** If spray mixture is allowed to settle at any time, thorough agitation is required to resuspend the mixture before spraying is resumed.

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Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be 50-mesh. Carefully select proper nozzle to avoid spraying a fine mist. Check for even distribution of spray droplets. To reduce loss of the chemical due to drift of a fine mist, apply at nozzle pressures below 40 psi.

STANDARD SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST

Herbicides may not always mix evenly throughout a sprayable fluid fertilizer or the components may separate too quickly to make their combined use of practical value. This may be due to certain characteristics of the different fluid fertilizers. A simple test using small quantities of the components is suggested to provide compatibility potential.

The test follows:

A. Materials Required For A Compatibility Test

1. Two one-quart jars with lid or stopper (marked "with" and "without").
2. TEAspoons (for a more exacting test, a five to ten milliliter (mL) pipette or graduated cylinder is desirable).
3. Sprayable fluid fertilizer to be tested.
4. The herbicide chemicals to be mixed.
5. A compatibility agent (the purpose of the adjuvant is to help keep the fertilizer and crop protection chemical in suspension, if this assistance is needed).

B. Procedure

1. Add one pint of the sprayable fluid fertilizer that will be used or other herbicide carrier to each jar marked "with" and "without".



Add One Pint Liquid Fertilizer
To Two Quart Jars.



2. To the jar marked "with", add 1/4 TEAspoon or 1.2 milliliters of a suitable compatibility agent; shake gently for five to ten seconds to mix (1/4 TEAspoon in one pint is the equivalent of two pints per 100 gallons of liquid fertilizer).



To Jar Marked "With"
Add Compatibility Agent
And Shake To Mix.



3. To each jar add the appropriate amount of herbicide(s) listed in the following tables. If more than one is used, add them separately with the wettable powders or dry flowables added first, flowables second and liquid last. Shake gently five to ten seconds after each addition.



Add Herbicide(s) To Both Jars
And Shake to Mix.



Amount to be
added per Pint of
Sprayer Fluid Fertilizer
(Assuming Volume is 25 Gallons per Acre)

| HERBICIDE | RATE PER ACRE | Level TEAspoons |
|---------------|---------------|--------------------|
| Wettable | 1 lb | = 1.5 |
| Powders or | 2 lb | = 3.0 |
| Dry Flowables | 3 lb | = 4.5 |
| | 4 lb | = 6.0 |
| | 5 lb | = 7.5 |

FLUID FERTILIZER COMPATIBILITY 15

FLUID FERTILIZER COMPATIBILITY 16

| HERBICIDE | RATE/ACRE | Level | | |
|----------------|------------|-----------|-------------|------|
| | | TEAspoons | Milliliters | |
| Emulsifiable | 1 pint = | 0.5 | or | 2.4 |
| Concentrate or | 1 quart = | 1.0 | or | 4.7 |
| Flowables or | 2 quarts = | 2.0 | or | 9.5 |
| Liquids or | 3 quarts = | 3.0 | or | 14.2 |
| Solutions | 1 gallon = | 4.0 | or | 19.0 |
| | 5 quarts = | 5.0 | or | 23.8 |

This compatibility test is designed for 25 gallons of spray per acre. For changes in spray volume or herbicide rate, make appropriate changes in the ingredients of the test. Regardless of spray volume, the amount of compatibility agent should be equal to two or three pints (two pints = 1/4 TEAspoon or 1.2 milliliters, three pints = 3/8 TEAspoon or 1.8 milliliters per pint of sprayable fluid fertilizer) per 100 gallons of liquid fertilizer.

C. Observations and Decisions

1. If the herbicide(s) and the sprayable fluid fertilizer are compatible.
2. If a compatibility agent is necessary.

Five minutes after the final addition and mixing, observe both jars for the formation of large flakes, sludge, gels or other precipitates. Observe if the herbicide(s) cannot be physically mixed with the liquid fertilizer but remains as small oily particles in the solution.

If incompatibility in any form described above occurs in the jar "with" the compatibility agent added, the liquid fertilizer and the herbicide(s) should not be used together in the same spray tank.

If incompatibility as described above occurs in the jar "without" the adjuvant but not in the jar "with" adjuvant, the use of a compatibility adjuvant is recommended.

Both jars should be allowed to stand and be observed periodically for one-half hour. If the separate layers of liquid fertilizer and additives can be resuspended by shaking, commercial application is possible. An emulsifiable concentrate normally will go to the top after standing; wettable powders will either settle to the bottom of the tank or jar, or float to the top, depending upon the density of the fertilizers.

If the herbicide(s) is compatible with fluid fertilizer in the foregoing test without having to use a compatibility agent, fluid fertilizer may be used for the premixing. If it is not compatible without the compatibility agent, the herbicide(s) should be premixed with water before adding to the spray tank.

APPLICATION INFORMATION SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they must be observed.

The applicator must be familiar with and take into account the information covered in the [Aerial Drift Reduction Advisory Information](#).

Importance of droplet size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see the "Wind", "Temperature and Humidity", and "Temperature Inversions" sections of this label).

Controlling droplet size

Volume: Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with the higher rated flows produce larger droplets.

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Pressure: Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles: Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation: Orienting nozzles so that the spray is released backwards, parallel to the air stream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.

Nozzle Type: Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

Boom Length: For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application: Applications must not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller droplets, etc.).

Wind

Drift potential is lowest between wind speeds of 2 to 10 miles per hour. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application must be avoided below 2 miles per hour due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications must not be made during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

APPLICATION SYSTEMS

Ground Broadcast Treatment—For application into CONVENTIONAL TILLAGE SYSTEMS, apply this product and the labeled tank-mixtures in 10 or more gallons of solution per acre using broadcast boom equipment. For application into CONSERVATION OR MINIMUM TILLAGE SYSTEMS, apply in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre when adding a Roundup agricultural herbicide or 2,4-D to the mix. Apply in 20 to 60 gallons of water or nitrogen solution when adding Gramoxone herbicide to the mix. The carrier may be either water or sprayable fluid fertilizer as specified for the crop to be treated in the "DIRECTIONS FOR

USE" section of this label. Do not apply during periods of gusty winds, when winds are in excess of 15 miles per hour or when other conditions favoring drift exist.

Band Treatment—Apply a broadcast equivalent rate and volume per acre. To determine these:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast RATE per acre} = \text{Band RATE per acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast VOLUME per acre} = \text{Band VOLUME per acre}$$

Chemigation—Center Pivot Irrigation—Apply this product and labeled tank-mixtures only through center pivot irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. Use only in systems that apply uniformly.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not chemigate through systems connected to a public water system.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Do not apply when system connections or fittings leak, when nozzles do not provide uniform distribution or when the line containing the product must be dismantled and drained.

The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a systems interlock. Pumps, injection equipment, agitation equipment, hoses and connections between supply tank and the point of injection must be constructed of materials which are resistant to this product.

Meter this product or a labeled tank-mixture of this product into the center pivot irrigation system after planting and before crop emergence. Herbicide application should be made in 1/3 to 3/4 inch of water per acre. Do not apply in more than 3/4 inch of water per acre under any conditions or reduced performance may occur. On very sandy soils (more than 60 percent sand and less than 1 percent organic matter), apply these herbicides in a maximum of 1/2 inch water per acre. Good agitation must be maintained during the entire application period. Flush the system with water when application is complete. Refer to the "MIXING, SPRAYING AND HANDLING INSTRUCTIONS" section of the label for mixing procedures.

NOTE: Applications can be made by injection through center pivot irrigation equipment only when specified for the crop to be treated in the "DIRECTIONS FOR USE" section of this label. Do not apply this product or any labeled tank-mixture through center pivot irrigation unless the

treatment is specifically recommended in this label for the crop to be treated.

Posting of areas to be chemigated is required when any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes or any public area such as schools, parks, playgrounds or other public facilities not including public roads. Posting must conform to the following requirement. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are not usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Posting signs may be obtained from your local farm chemical dealer. This sign is in addition to any sign posted to comply with the Worker Protection Standard.

Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2-1/2 inches tall, and all letters and the symbol shall be a color that sharply contrasts with the immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Aerial-Fixed wing; helicopter—Apply this product or approved tank-mixtures in 3 to 10 gallons of water per acre. To avoid streaked, uneven or overlapped application, use mechanical marking systems only. HUMAN FLAGGERS PROHIBITED!

Application with Dry Bulk Fertilizer—The herbicide-dry fertilizer impregnation process must be completed only by commercial fertilizer or chemical dealerships properly equipped for this procedure.

Dry bulk fertilizer may be impregnated with this product or the tank-mixture of this product plus atrazine on grain sorghum, and this product

or the tank-mixtures of this product plus Sencor on soybeans. This product and these tank-mixtures must be applied with 200 to 450 pounds of dry bulk fertilizer per acre and shallowly incorporated within 7 days prior to planting. On medium- and fine-textured soils in areas where soil incorporation is not planned; i.e., reduced tillage situations or in some conventional till situations, applications can be made up to 30 days before planting to allow moisture to move the herbicide-fertilizer mixture into the soil. On coarse-textured soils, applications can be made up to 14 days prior to planting. The herbicide must be applied as recommended in this label for the crop, weed and soil type. Refer to the table for broadcast rate per acre in the appropriate crop section of this label to determine the application rate per acre for the herbicide treatment to be applied.

The following table provides a reference to determine the amount of LIQUID herbicide to be mixed per ton of dry bulk fertilizer for a range of herbicide recommendations for fertilizer rates per acre:

| Fertilizer Rate (Pounds/Acre) | Acres Covered (Per Ton) | QUARTS LIQUID HERBICIDE/ACRE | | | |
|-------------------------------------|-------------------------------|--|------|------|------|
| | | 1.5 | 2.0 | 2.5 | 3.0 |
| | | (Quarts of Herbicide/Ton Dry Bulk Fertilizer) | | | |
| 200 | 10 | 15 | 20 | 25 | 30 |
| 250 | 8 | 12 | 16 | 20 | 24 |
| 300 | 6.7 | 10 | 13.3 | 16.7 | 20 |
| 350 | 5.7 | 8.6 | 11.4 | 14.3 | 17.1 |
| 400 | 5 | 7.5 | 10 | 12 | 15 |
| 450 | 4.5 | 6.7 | 8.9 | 11.1 | 13.3 |

To determine the amount of herbicide needed for rates not included in the preceding table, use the following formula:

$$\frac{\text{Herbicide Application Rate}}{\text{(pounds or quarts)/acre} \times 2000} = \frac{\text{Pounds or quarts}}{\text{pounds fertilizer/acre}} \text{ herbicide per ton of dry bulk fertilizer}$$

Mix and blend the dry fertilizer and herbicide mixture in a closed rotary drum-type mixer allowing sufficient time to ensure uniform coverage. Use at least one ton of dry fertilizer per mixing operation. Inject the herbicide into the drum over a minimum of a 2-minute period and allow at least 2 additional minutes mixing time to ensure uniformity. The nozzle used to

spray the herbicide treatment must be placed inside the mixer to provide uniform spray coverage of the tumbling fertilizer.

If the dry fertilizer used has inadequate absorptive capacity, a highly absorptive material such as Agsorb MP-79, or Microcel can be added to provide a free-flowing mixture. The following table provides a partial list of dry fertilizers which may be impregnated with this product or tank-mixtures of this product with other herbicides:

| Fertilizer | INTRRO | | INTRRO |
|--------------------------------------|--------|------------|----------|
| | INTRRO | + atrazine | + Sencor |
| Ammonium sulfate (21-0-0) | Yes | Yes | Yes |
| Ammonium phosphate-sulfate (16-20-0) | Yes | Yes | Yes |
| Diammonium phosphate (18-46-0) | Yes | Yes | Yes |
| Potassium chloride (0-0-60) | Yes | Yes | Yes |
| Potassium sulfate (0-0-52) | Yes | Yes | Yes |
| Single super-phosphate (0-20-0) | Yes | No | Yes |
| Treble super-phosphate (0-46-0) | Yes | No | Yes |
| Urea (46-0-0) | Yes | Yes | Yes |

NOTE: DO NOT impregnate this product or tank-mixtures of this product with other herbicides on fertilizers containing ammonium nitrate, potassium nitrate or sodium nitrate.

Spread the herbicide-dry fertilizer mixture uniformly with a properly calibrated dribble, pneumatic (air flow) or spin applicator. When using spin applicators, the herbicide-dry fertilizer mixture must be spread at half-rate and overlapped 100 percent to obtain full rate and uniform distribution. Non-uniform spreading of the fertilizer-herbicide mixture may result in unsatisfactory weed control or crop injury.

NOTE: For the fertilizer impregnation operation, the amount of alachlor to be impregnated is not to exceed 4000 pounds of alachlor per day (equivalent to 1000 gallons of this product per day) to limit exposure to mixers/handlers.

APPLICATION TIMING AND METHODS

Early Preplant Surface—Some labeled tank-mixtures of this product may be applied in no-till and other conservation tillage systems before weeds emerge and up to 45 days before planting certain crops. Split

applications can be made 30 to 45 days prior to planting, with 60 percent of the broadcast rate applied initially and the remaining 40 percent applied at planting. Applications made less than 30 days prior to planting can be made either as a split or as a single application. Refer to the individual crop to determine if early preplant application is recommended. If weeds are present at the time of application, apply this product in tank-mixtures with an appropriate contact herbicide. Observe directions for use, precautions and restrictions on the label of the contact herbicide. During the planting operation, be careful not to move untreated soil to the surface or move treated soil out of the row, as weed control may be reduced.

Preplant Incorporation—This product and many of the labeled tank-mixtures may be mixed into the soil using shallow incorporation equipment any time within 7 days prior to planting. Refer to the crop to be treated in the “DIRECTIONS FOR USE” section of this label to determine if preplant incorporation is recommended. Apply to the soil surface as a broadcast application. Precipitation or irrigation is required to bring incorporated herbicide treatments into contact with germinating weed seedlings. The amount of precipitation or irrigation required depends on existing soil moisture, soil type and percent organic matter content, but 1/3 to 3/4 inch is normally adequate. If weeds emerge after treatment, rotary hoe or shallowly cultivate immediately to improve performance.

NOTE: Do not incorporate unless specifically recommended in this label for the crop and herbicide treatment selected. Incorporation of this product and its labeled tank-mixtures on coarse soil types may reduce length of weed control due to leaching with rainfall or irrigation.

Shallowly incorporate the treatment into the upper 1 to 2 inches of the soil. Equipment should be operated at manufacturer’s designed speed for incorporation to ensure adequate mixing and distribution of the herbicide treatment in the soil. Equipment design, including any drag attachments, must be adequate to avoid soil ridging which may result in streaked or reduced weed control. Set equipment to work the soil NO DEEPER THAN 4 INCHES. Soil conditions, including moisture content and crop residue levels, must be suitable to allow thorough and uniform mixing with the equipment used for 1-pass incorporation.

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

Cultivation Information—Delay cultivation after application for as long as possible unless weeds or grasses emerge. Shallowly cultivate or rotary hoe immediately if weeds or grasses emerge. If cultivation is necessary because of soil crusting or compaction, set equipment shallow and minimize lateral soil movement to avoid dilution or displacement of the herbicide treatment. If a band application is used and weeds have emerged in the treated band, set cultivator to throw soil into the row covering the band. On peanuts, do not throw soil into the row.

CONSERVATION OR MINIMUM TILLAGE SYSTEMS TANK-MIXTURES AT-PLANTING APPLICATIONS

When applied as directed under the conditions described, the recommended tank-mixtures control many emerged annual weeds, suppress many emerged perennial weeds and give preemergence control of many annual grasses and broadleaf weeds when grain sorghum or soybeans will be planted directly into a cover crop, stale seedbed, established sod, or in previous crop residues. Consult the “WEEDS CONTROLLED” section of this label to determine the weeds that are controlled or reduced prior to their emergence, and the “WEEDS CONTROLLED” section of the Roundup agricultural herbicides, Gramoxone or 2,4-D labels to determine the weeds

that are controlled or reduced following postemergence treatment by these products.

Apply the recommended tank-mixtures BEFORE CROP EMERGENCE. As density of stubble, crop residue or weeds increases, spray volume and rate should be increased within the application rate ranges to ensure complete coverage. In the absence of emerged vegetation, delete the Roundup agricultural herbicide; 2,4-D or Gramoxone brand herbicide portion of these tank-mixtures. Follow the recommendations in the preceding sections of this label and also the label of the contact herbicide that is included in the tank-mixture to provide postemergence control of weeds.

APPLY ONLY BY GROUND APPLICATION SYSTEMS. DO NOT APPLY BY AIR.

ATTENTION

AVOID DRIFT—EXTREME CARE MUST BE USED WHEN APPLYING THESE TANK-MIXTURES TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS. Do not allow spray mist to drift because even minute quantities of spray can cause severe damage or destruction to nearby crops, plants or other areas on which treatment is not intended. Do not apply when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in fine particles (mist) that are more likely to drift.

For emerged annual or perennial weeds controlled or suppressed, see the “WEEDS CONTROLLED” section of the Roundup agricultural herbicides; 2,4-D or Gramoxone brand herbicide labels. USE OF THESE MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IS NOT RECOMMENDED.

Ammonium Sulfate—The addition of ammonium sulfate in the spray solution may increase the performance of Roundup agricultural herbicides tank-mixtures on emerged annual weeds under adverse growing conditions. When using ammonium sulfate, add 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water. Ammonium sulfate should be added to the water in the spray tank and completely dissolved prior to adding the herbicide or surfactant. Do not mix ammonium sulfate in fluid fertilizer solutions.

CONSERVATION OR MINIMUM TILLAGE 27

CONSERVATION OR MINIMUM TILLAGE 28

If ammonium sulfate is added directly to the spray tank, add slowly with agitation. Adding too quickly may clog outlet lines. Nozzle tip plugging may result from the use of low-quality ammonium sulfate. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for one minute. If undissolved sediment is observed, predissolve the ammonium sulfate in water and filter prior to adding to the spray tank.

Following use of ammonium sulfate, thoroughly rinse the spray system with clean water to reduce corrosion.

Surfactants—Nonionic surfactants which are labeled for use with herbicides may be used with some Roundup agricultural herbicides. Check specific label for restrictions. When allowed, do not reduce rates of Roundup agricultural herbicides when adding surfactant. Use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least 50 percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 50 percent active ingredient. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

WEEDS CONTROLLED

When applied as directed under conditions described, this product and tank-mixtures of this product will control or reduce competition from the weeds listed. Refer to the crop on which treatment is intended to determine the rates and tank-mixtures recommended.

For the scientific names of the weeds listed below, refer to the appendix at the end of this booklet.

The tank-mixtures of this product plus atrazine or plus Princep may not control triazine-resistant weeds as indicated in the tables below for these mixtures.

NOTE: C=Control R=Reduced Competition

| | INTRRO | INTRRO plus | | | |
|--|--------|-------------|---------|--------|---------|
| | | atrazine | dicamba | Canopy | Command |
| Barnyardgrass | C | C | C | C | C |
| Crabgrass | C | C | C | C | C |
| Cupgrass, woolly ¹ | R | R | • | R | R |
| Foxtail: giant, green, robust purple, robust white, yellow | C | C | C | C | C |
| Goosegrass | C | C | C | C | C |
| Johnsongrass, seedling ² | R | R | R | R | R |
| Millet, proso ³ | R | R | • | • | • |
| Panicum: browntop, fall | C | C | C | C | C |
| Panicum, Texas ⁴ | R | R | R | R | R |
| Rice, red ⁵ | C | C | • | C | C |
| Sandbur; Grassbur ^{2,6} | R | C | • | • | • |
| Shattercane; Wild cane ¹ | R | R | • | R | R |
| Signalgrass, broadleaf | C | C | C | C | C |
| Sprangletop, red | C | C | C | C | C |
| Witchgrass | C | C | C | C | C |

WEEDS CONTROLLED

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NOTE: C=Control R=Reduced Competition

ANNUAL BROADLEAVES

| | INTRRO | INTRRO plus | | | |
|--|--------|-------------|---------|--------|---------|
| | | atrazine | dicamba | Canopy | Command |
| Beggarweed, Florida ² | R | C | • | C | • |
| Carpetweed | C | C | C | C | C |
| Cocklebur | • | R | R | C | • |
| Coffeeweed; Hemp sesbania | • | • | • | C | • |
| Copperleaf, hophornbeam | • | • | • | C | • |
| Galinsoga | C | C | C | C | C |
| Groundcherry, annual | • | C | • | C | • |
| Groundcherry, cutleaf ⁷ | C | C | C | C | C |
| Jimsonweed | • | C | • | C | C |
| Kochia | • | C | • | • | • |
| Lambsquarters ² | R | C | C | C | C |
| Morningglory: tall ⁸ , | • | R | R | C | • |
| pitted, ivyleaf ⁸ , entireleaf ⁸ , | • | • | • | C | • |
| smallflower | R | C | • | C | • |
| Mustard | • | C | C | C | • |
| Nightshade: black ¹ , hairy ⁷ | C | C | C | C | C |
| Pigweed; Carelessweed | C | C | C | C | C |
| Purslane | C | C | C | C | C |
| Pusley, Florida | C | C | C | C | C |
| Ragweed, common ² | R | C | C | C | C |
| Ragweed, giant | • | • | • | R | • |
| Sicklepod | • | C | • | C | • |
| Sida, prickly; Teaweed ² | R | • | • | C | C |
| Smartweed ² | R | C | C | C | R |
| Starbur, bristly | R | C | • | C | • |

| | | | | | |
|-------------------------------------|---|---|---|---|---|
| Sunflower, common | • | • | • | R | • |
| Velvetleaf; Buttonweed ⁸ | • | R | R | C | C |
| Waterhemp | C | C | C | C | C |

SEDGE

| | | | | | |
|-------------------------------|---|---|---|---|---|
| Nutsedge, yellow ⁵ | C | C | • | C | C |
|-------------------------------|---|---|---|---|---|

ANNUAL GRASSES

| | INTRRO plus | | | | | |
|--|-------------|-----------|---------|---------|--------|---------|
| | linuron | LoroxPlus | Pursuit | Scepter | Sencor | Treflan |
| Barnyardgrass | C | C | C | C | C | C |
| Crabgrass | C | C | C | C | C | C |
| Cupgrass, woolly ¹ | • | • | R | R | R | R |
| Foxtail: giant, green, robust purple, robust white, yellow | C | C | C | C | C | C |
| Goosegrass | C | C | C | C | C | C |
| Johnsongrass, seedling ² | R | R | C | C | R | R |
| Millet, proso ³ | • | • | • | • | • | • |
| Panicum: browntop, fall | C | C | C | C | C | C |
| Panicum, Texas ⁴ | R | R | R | R | R | R |
| Rice, red ⁵ | • | • | C | C | C | C |
| Sandbur; Grassbur ^{2,6} | • | • | • | • | • | • |
| Shattercane; Wild cane ¹ | • | • | R | R | R | R |
| Signalgrass, broadleaf | C | C | C | C | C | C |
| Sprangletop, red | C | C | C | C | C | C |
| Witchgrass | C | C | C | C | C | C |

WEEDS CONTROLLED

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NOTE: C=Control R=Reduced Competition

ANNUAL BROADLEAVES

| | INTRRO plus | | | | | |
|---|-------------|------------|---------|---------|--------|---------|
| | linuron | Lorox Plus | Pursuit | Scepter | Sencor | Treflan |
| Beggarweed, Florida ² | • | • | • | • | R | • |
| Carpetweed | C | C | C | C | C | C |
| Cocklebur | • | C | C | C | R | • |
| Coffeeweed | • | • | • | • | • | • |
| Copperleaf, hophornbeam | • | • | • | • | • | • |
| Galinsoga | C | C | C | C | C | C |
| Groundcherry, annual | C | C | C | C | C | • |
| Groundcherry, cutleaf ⁷ | C | C | C | C | C | C |
| Jimsonweed | • | C | C | C | R | • |
| Kochia | • | • | • | • | • | C |
| Lambsquarters ² | C | C | C | C | C | • |
| Morningglory: tall ⁸ , pitted, ivyleaf ⁸ , entireleaf ⁸ , smallflower | • | R | R | R | • | • |
| Mustard | C | C | C | C | • | • |
| Nightshade: black ⁷ , hairy ⁷ | C | C | C | C | C | C |
| Pigweed; Carelessweed | C | C | C | C | C | C |
| Purslane | C | C | C | C | C | C |
| Pusley, Florida | C | C | C | C | C | C |
| Ragweed, common ² | C | C | R | C | C | • |
| Ragweed, giant | • | R | R | R | • | • |
| Sicklepod | • | • | • | R | R | • |
| Sida, prickly; Teaweed ² | C | C | C | C | C | • |

| | | | | | | |
|-------------------------------------|---|---|---|---|---|---|
| Smartweed ² | C | C | C | C | C | • |
| Starbur, bristly | • | • | • | C | C | • |
| Sunflower, common | • | • | C | C | C | • |
| Velvetleaf; Buttonweed ⁸ | R | C | C | C | R | • |
| Waterhemp | C | C | C | C | C | C |

SEDGE

| | | | | | | |
|-------------------------------|---|---|---|---|---|---|
| Nutsedge, yellow ⁵ | • | • | C | C | C | C |
|-------------------------------|---|---|---|---|---|---|

¹ Use 4 quarts per acre of this product applied alone or in tank-mix combinations. Preplant incorporate only to reduce competition from this weed.

² For reduced competition from this weed using this product alone, use 2.5 to 4 quarts of INTRRO Preemergent Herbicide per acre.

³ Plant into freshly prepared seedbed. Apply 4 quarts of this product per acre preemergence surface immediately after planting to reduce competition from this weed.

⁴ Use 3 to 4 quarts of this product per acre and apply through center pivot irrigation or under sprinkler irrigation systems. DO NOT apply this product plus atrazine tank-mixture through center pivot irrigation systems.

⁵ Use 3 to 4 quarts of this product per acre applied alone or in tank-mixture and apply preplant incorporated only for control on medium- and fine-textured soils. When tank-mixed with Pursuit or Scepter, use 2 to 3 quarts of this product per acre and preplant incorporate only. On coarse-textured soils with less than 3 percent organic matter, use 3 to 4 quarts of this product per acre as a preemergence surface application to reduce competition from yellow nutsedge.

⁶ Apply 2.5 to 3 quarts of this product plus 1 to 2 quarts of atrazine 4L per acre. Preplant incorporated applications should be made immediately before planting. Preemergence surface application should be applied to a freshly prepared seedbed. For best control, rotary hoe or initiate overhead irrigation (1/3 to 1/2 inch) within 24 hours of application.

⁷ Use a minimum of 2.5 quarts of INTRRO Preemergent Herbicide per acre on coarse soils, or 3 quarts of this product per acre on medium and fine soils when used alone or in tank-mixture with Banvel or equivalent rates

WEEDS CONTROLLED

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of other dicamba products registered for this use, Canopy, Command, Sencor or Treflan for control of this weed.

- ⁸ For best results on these species when using this product plus Scepter tank-mixture, use preplant incorporated treatments.

Certain tank-mixtures of this product and broadleaf herbicides may be combined with applications of Roundup agricultural herbicides or Gramoxone brand herbicide for control of many emerged weeds prior to soybean emergence. Refer to the Roundup agricultural herbicide or Gramoxone brand herbicide label for a list of emerged weeds controlled by tank-mixtures with these products.

CROPS SORGHUM, SOYBEANS, PEANUTS, BEANS, WOODY ORNAMENTALS

GRAIN SORGHUM (MILO)—CONVENTIONAL TILLAGE

NOTE: Each crop section of this label provides application rates for this product and tank-mixtures including this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control, injury to crops, persons or animals, or other unintended consequences. Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank-mixtures, including precautions on soil pH sensitive varieties, minimum re-cropping interval and rotational guidelines.

Use the higher rates in the application rate ranges in areas of heavy weed infestation or where otherwise specified. If emerged weeds exist at planting, the application of a contact herbicide or tillage is recommended when possible to eliminate existing weeds. Do not apply when conditions favor drift.

Detailed information regarding "APPLICATION SYSTEMS" and "APPLICATION TIMING AND METHODS" should be carefully reviewed in conjunction with the information in this section. If the specific information in this section differs from the "PRODUCT INFORMATION", the specific information should control.

When making applications on grain sorghum, do not make more than two applications per year or exceed a total of 4 quarts of this product per acre per year.

Do not graze or harvest forage for 70 days following application of this product or tank-mixtures of this product.

INTRRO Preemergent Herbicide

Apply this product in water or sprayable fluid fertilizer solution. Applications must be made **ONLY** to grain sorghum planted with seed that has been properly treated with a seed protectant or safener.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded; **Aerial:** Fixed wing, helicopter; **Center Pivot Irrigation; Dry Bulk Fertilizer Impregnation**

APPROVED APPLICATION METHODS

Preplant Incorporated, Preemergence Surface

APPLICATION RATES: Preplant Incorporated

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | |
|------------------------|-------------------------|--|
| | INTRRO (quarts) | |
| Coarse | 2.0 to 2.5 | |
| Medium | 2.5 to 2.75 | |
| Fine | 2.5 to 3.0 | |

Rates may be increased to a maximum of 4 quarts on any soil type when heavy infestation of yellow nutsedge is present.

APPLICATION RATES: Preemergence Surface

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | |
|------------------------|-------------------------|--|
| | INTRRO (quarts) | |
| Coarse | 1.5 to 2.0 | |
| Medium | 2.0 to 2.25 | |
| Fine | 2.0 to 2.5 | |

NOTE: When applied through center pivot irrigation or under sprinkler irrigation systems, use a minimum of 3 quarts per acre of this product on coarse soils.

INTRRO Preemergent Herbicide plus ATRAZINE

Apply this tank-mixture in water or sprayable fluid fertilizer solution. Applications must be made **ONLY** to grain sorghum planted with seed that has been properly treated with a seed protectant or safener.

NOTE: In Texas, use only in the Panhandle area and the fine-textured soils of the Gulf Coast and Blacklands. In the Texas Panhandle and Oklahoma Panhandle, apply this tank-mixture as a preemergence surface application only. In the Texas Panhandle, Oklahoma Panhandle and the fine-textured soils of the Gulf Coast and Blacklands of Texas, do not exceed 1.25 quarts of atrazine 4L per acre as crop injury may result due to atrazine.

Applications made to grain sorghum (milo) growing on alkali soils or where cuts, fills or erosion have exposed calcareous or alkali subsoils may result in crop injury.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded; **Aerial:** Fixed wing, helicopter; **Dry Bulk Fertilizer Impregnation**

APPROVED APPLICATION METHODS

Preplant Incorporated, Preemergence Surface

NOTE: CORN, PEANUTS, SORGHUM OR SOYBEANS* can be planted the year following use of this mixture.

*There is a possibility of crop injury due to carryover of atrazine if soybeans or other nonlabeled crops are planted the following year. DO NOT plant soybeans the year following use of this tank-mixture on furrow irrigated milo.

APPLICATION RATES: Preplant Incorporated

| | BROADCAST RATE PER ACRE | | | |
|---------------------|----------------------------------|----------------------------|--------------------------------|----------------------------|
| | Less than 1.5% organic matter | | 1.5% or more organic matter | |
| SOIL TEXTURAL GROUP | INTRRO (quarts) | atrazine 4L* + (quarts) | INTRRO (quarts) | atrazine 4L* + (quarts) |
| Medium | 1.5 to 2.0 | 1.0 to 1.25 | 1.75 to 2.0 | 1.0 to 1.5 |
| Fine | 1.75 to 2.0 | 1.0 to 1.5 | 2.0 to 2.5 | 1.25 to 1.75 |

Use the higher rates in the application rate ranges for fields under irrigation.

*Use rates listed in this label when using atrazine 4L. Use equivalent rates when using atrazine 80W or 90% dry flowable formulations. One quart of atrazine 4L equals 1.25 pounds of atrazine 80W or 1.1 pounds of atrazine 90% dry flowable.

NOTE: Use 3 to 4 quarts of this product per acre for control of yellow nutsedge or to reduce competition from the hard-to-control weeds listed on this label.

APPLICATION RATES: Preemergence Surface

| | BROADCAST RATE PER ACRE | | | |
|------------------------|----------------------------------|----------------------------|--------------------------------|----------------------------|
| | Less than 1.5% organic matter | | 1.5% or more organic matter | |
| SOIL TEXTURAL GROUP | INTRRO (quarts) | atrazine 4L* + (quarts) | INTRRO (quarts) | atrazine 4L* + (quarts) |
| Coarse, except sand | 1.5 | 0.75 to 1.0 | 1.5 to 1.75 | 0.75 to 1.0 |
| Medium | 1.5 to 1.75 | 1.0 to 1.25 | 1.5 to 2.0 | 1.0 to 1.5 |
| Fine | 1.5 to 2.0 | 1.0 to 1.5 | 1.75 to 2.25 | 1.25 to 1.75 |

Use the higher rates in the application rate ranges for fields under irrigation.

*Use rates listed in this label when using atrazine 4L. Use equivalent rates when using atrazine 80W or 90% dry flowable formulations. One quart of atrazine 4L equals 1.25 pounds of atrazine 80W or 1.1 pounds of atrazine 90% dry flowable.

NOTE: When applied under sprinkler irrigation systems use a minimum of 2 quarts per acre of this product and 1 quart per acre of atrazine 4L in this tank-mixture on coarse soils.

In the Texas Panhandle, Oklahoma Panhandle and the fine-textured soils of the Gulf Coast and Blacklands of Texas, do not exceed 1.25 quarts of atrazine 4L per acre as crop injury may result due to atrazine.

GRAIN SORGHUM (MILO)—CONSERVATION OR MINIMUM TILLAGE

NOTE: Important information regarding Conservation or Minimum Tillage appears in the "APPLICATION INFORMATION" section at the front of this label and should be carefully reviewed in conjunction with the information in this section.

Each crop section of this label provides application rates for this product and tank-mixtures including this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control, injury to crops, persons or animals, or other unintended consequences. Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank-mixtures, including precautions on soil pH, sensitive varieties, minimum re-cropping interval and rotational guidelines.

Use the higher rates in the application rate ranges in areas of heavy weed infestation or where otherwise specified. If emerged weeds exist at planting, the application of a contact herbicide or tillage is recommended when possible to eliminate existing weeds. Do not apply when conditions favor drift.

Detailed information regarding "APPLICATION SYSTEMS" and "APPLICATION TIMING AND METHODS" should be carefully reviewed in conjunction with the information in this section. If the specific information in this section differs from the "PRODUCT INFORMATION", the specific information should control.

INTRRO Preemergent Herbicide and the following tank-mixtures can be tank-mixed with Roundup agricultural herbicides or Gramoxone brand herbicides.

APPROVED APPLICATION SYSTEM

Ground: Broadcast boom

CONTROL OR SUPPRESSION OF EMERGED WEEDS— BURNDOWN PRIOR TO CROP

Roundup Agricultural Herbicide

Annual Weeds: Apply a Roundup agricultural herbicide, in these tank-mixtures, at the proper rate for the weed per the specific product label.

Perennial Weeds: At normal application dates in minimum tillage systems, perennial weeds may not be at the proper stage of growth for control. Use of the labeled rates of a Roundup agricultural herbicide, in the above mixtures under these conditions provides top kill and reduces competition from many emerged perennial grasses and broadleaf weeds.

NOTE: When using these tank-mixtures, do not exceed the maximum labeled rate per acre of the Roundup agricultural herbicide.

Gramoxone Brand Herbicide

Broadcast Treatment: Apply Gramoxone brand herbicide at the specific product labeled rates per acre in these tank-mixtures immediately before, during or after planting BUT BEFORE CROP EMERGENCE. These mixtures may not control weeds taller than 6 inches. Add a nonionic spreader surfactant (approved for use on crops) containing at least 75 percent surfactant active agent at 8 fluid ounces per 100 gallons of diluted spray.

PREEMERGENCE WEED CONTROL

INTRRO Preemergent Herbicide

Applications must be made ONLY to grain sorghum planted with seed that has been properly treated with a seed protectant or safener.

APPLICATION RATES:

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | |
|------------------------|-------------------------|--|
| | INTRRO (quarts) | |
| Coarse | 2.0 to 2.5 | |
| Medium | 2.5 to 2.75 | |
| Fine | 2.5 to 3.0 | |

Use the higher rate in the application rate ranges when organic matter content is 3 percent or more.

INTRRO Preemergent Herbicide plus ATRAZINE

Applications must be made **ONLY** to grain sorghum planted with seed that has been properly treated with a seed protectant or safener.

APPLICATION RATES:

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | |
|-------------------------|-------------------------|-----------------------|
| | INTRRO (quarts) | atrazine 4L* (quarts) |
| Coarse, sandy loam only | 1.5 to 2.0 | 0.75 to 1.0 |
| Medium | 1.75 to 2.25 | 1.0 to 1.25 |
| Fine | 2.0 to 2.5 | 1.25 to 1.5 |

*Use rates listed in this label when using atrazine 4L. Use equivalent rates when using atrazine 80W or 90% dry flowable formulations. One quart of atrazine 4L equals 1.25 pounds of atrazine 80W or 1.1 pounds of atrazine 90% dry flowable.

Use the higher rate of this product in the application rate ranges when fall panicum or crabgrass will be present.

Use the higher rate of atrazine in the application rate ranges on soils with greater than 3 percent organic matter.

NOTE: CORN, PEANUTS, SORGHUM OR SOYBEANS can be planted the year following use of this mixture.

There is a possibility of crop injury due to carryover of atrazine if soybeans or other nonlabeled crops are planted the following year.

EARLY PREPLANT APPLICATIONS

Apply this tank-mixture in water or sprayable fluid fertilizer as a single application within 30 days prior to planting. When making split applications, apply this tank-mixture within 45 days prior to planting, followed by an additional application of this product at planting. If emerged weeds are present at the time of the early preplant application or at-planting application, a labeled contact herbicide or tillage should be used. The at-planting application should be made before crop or weeds emerge. Minimize movement of treated soil out of the row or untreated soil to the surface during planting or weed control may be reduced. Do not use in coarse- or fine-textured soils.

Applications must be made **ONLY** to grain sorghum planted with seed that has been properly treated with a seed protectant or safener.

APPLICATION RATES: Early Preplant

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | | |
|---------------------------|-------------------------|----------------------|-------------------------|
| | Early Application | | At-Planting Application |
| | INTRRO (quarts) | atrazine 4L (quarts) | INTRRO (quarts) |
| SINGLE APPLICATION | | | |
| Coarse, except sand | 2.25 to 3.0 | 1.0 to 1.25 | • |
| Medium | 2.75 to 3.0 | 1.5 to 2.0 | • |
| SPLIT APPLICATION | | | |
| Coarse, except sand | 1.75 to 2.0 | 1.0 to 1.5 | 0.75 to 1.0 |
| Medium | 1.75 to 2.0 | 1.5 to 2.0 | 0.75 to 1.0 |

SOYBEANS—CONVENTIONAL TILLAGE

NOTE: Each crop section of this label provides application rates for this product and tank-mixtures including this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control, injury to crops, persons or animals, or other unintended consequences. Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank-mixtures, including precautions on soil pH, sensitive varieties, minimum re-cropping interval and rotational guidelines.

Use the higher rates in the application rate ranges in areas of heavy weed infestation or where otherwise specified. If emerged weeds exist at planting, the application of a contact herbicide or tillage is recommended when possible to eliminate existing weeds. Do not apply when conditions favor drift.

Detailed information regarding "APPLICATION SYSTEMS" and "APPLICATION TIMING AND METHODS" should be carefully reviewed in conjunction with the information in this section. If the specific information in this section differs from the "PRODUCT INFORMATION", the specific information should control.

When making applications on soybeans, do not make more than one application per year or exceed a total of 3 quarts of this product per acre per year.

Do not feed forage, hay or straw from soybeans treated with this product or tank-mixtures with this product. Do not ensile soybeans treated with this product.

INTRRO Preemergent Herbicide

Apply this product in water or sprayable fluid fertilizer solution.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded; Aerial: Fixed wing, helicopter; Center Pivot Irrigation; Dry Bulk Fertilizer Impregnation

APPROVED APPLICATION METHODS

Preplant Incorporated, Preemergence Surface

APPLICATION RATES: Preplant Incorporated

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE (quarts) | |
|---------------------|----------------------------------|---------------------------|
| | Less than 3% organic matter | 3% or more organic matter |
| Coarse | 2.5 | 2.5 |
| Medium | 2.5 to 3.0 | 2.5 to 3.0 |
| Fine | 2.5 to 3.0 | 3.0 |

Use a minimum of 3 quarts per acre on coarse-textured soils for control of yellow nutsedge or red rice.

Preemergence Surface

Sequential Program

This product may be applied preemergence to Roundup Ready® Soybeans at the Roundup Ready RATE™ of 2.0 quarts per acre, to be followed by a Roundup agricultural herbicide labeled for use in a postemergence sequential program, per the label instructions.

ROUNDUP READY RATE - INTRRO Preemergent Herbicide at 2.0 quarts per acre.

APPLICATION RATES: Preemergence Surface

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE (quarts) | |
|---------------------|----------------------------------|---------------------------|
| | Less than 3% organic matter | 3% or more organic matter |
| Coarse* | 2.0 to 2.25 | 2.0 to 2.25 |
| Medium | 2.0 to 2.75 | 2.0 to 2.75 |
| Fine | 2.0 to 2.75 | 2.5 to 3.0 |

*Use a minimum of 2.5 quarts of this product per acre on coarse soils and 3 quarts on medium- or fine-textured soils to control black or hairy nightshade.

When applied through center pivot irrigation or under sprinkler irrigation systems on coarse soils, use 3 quarts per acre of this product.

INTRRO Preemergent Herbicide plus CANOPY

Apply this tank-mixture in water or sprayable fluid fertilizer solution.

DO NOT plant rice or peanuts within 18 months after application of this tank-mixture.

APPROVED APPLICATION SYSTEM

Ground: Broadcast boom

APPROVED APPLICATION METHODS

Preplant Incorporated, Preemergence Surface

Preplant Incorporated—Preplant incorporation may cause slight soybean injury early, but soybeans should recover with no subsequent effect on growth or yield.

APPLICATION RATES: Preplant Incorporated

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE* | | | |
|---|------------------------------|-----------------------|----------------------------|-----------------------|
| | 1/2% to 3% organic matter | | 3% to 5% organic matter | |
| | INTRRO** (quarts) | Canopy*** (ounces) | INTRRO** (quarts) | Canopy*** (ounces) |
| Coarse, loamy sand, sandy loam only | 2.0 to 2.5 | 6 | 2.0 to 2.5 | 8 |
| Medium | 2.0 to 2.5 | 8 | 2.25 to 2.75 | 10 |
| Fine | 2.25 to 2.75 | 10 | 2.5 to 3.0 | 12 |

*DO NOT APPLY TO SOIL WITH LESS THAN 1/2 PERCENT ORGANIC MATTER.

** Use the higher rate of this product in the application rate ranges when broadleaf signalgrass is present.

*** In southeast KS, southwest MO and northeast OK on soils with 1/2 to 3 percent organic matter, use 5 to 6 ounces Canopy per acre. On silt loam soils in TN and KY, use 6 to 8 ounces of Canopy per acre.

NOTE: In the states of IA, IL, IN, KS, MI, MO, MN, NE, OK, OH, and WI on soils with 1/2 to 4 percent organic matter, reduced rates of Canopy are recommended for broadleaf weed control. Use 5 ounces of Canopy per acre on coarse soils (loamy sand and sandy loam only); 6 ounces on medium soils; 6 to 7 ounces on fine soils. Do not apply to soils with greater than 6.8 pH or to soils with less than 1/2 percent organic matter or greater than 4 percent organic matter.

For improved control of heavy velvetleaf infestation, add 1/2 pint of Command herbicide per acre to this tank-mixture and preplant incorporate.

APPLICATION RATES: Preemergence Surface

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE* | | | |
|---|------------------------------|-----------------------|----------------------------|-----------------------|
| | 1/2% to 3% organic matter | | 3% to 5% organic matter | |
| | INTRRO** (quarts) | Canopy*** (ounces) | INTRRO** (quarts) | Canopy*** (ounces) |
| Coarse, loamy sand, sandy loam only | 1.75 to 2.25 | 6 | 1.75 to 2.25 | 8 |
| Medium | 1.75 to 2.25 | 8 | 2.0 to 2.5 | 10 |
| Fine | 2.0 to 2.5 | 10 | 2.25 to 2.75 | 12 |

* DO NOT APPLY TO SOIL WITH LESS THAN 1/2 PERCENT ORGANIC MATTER.

** Use the higher rate of this product in the application rate ranges when broadleaf signalgrass is present.

*** In southeast KS, southwest MO and northeast OK on soils with 1/2 to 3 percent organic matter, use 5 to 6 ounces of Canopy per acre. On silt loam soils in TN and KY, use 6 to 8 ounces of Canopy per acre.

NOTE: In the states of IA, IL, IN, KS, MI, MO, MN, NE, OK, OH, and WI on soils with 1/2 to 4 percent organic matter, reduced rates of Canopy are recommended for broadleaf weed control. Use 5 ounces of Canopy per acre on coarse soils (loamy sand and sandy loam only); 6 ounces on medium soils; 6 to 7 ounces on fine soils. Do not apply to soils with greater than 6.8 pH or to soils with less than 1/2 percent organic matter or greater than 4 percent organic matter.

INTRRO Preemergent Herbicide plus COMMAND

Apply this tank-mixture in water or sprayable fluid fertilizer solution.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded

APPROVED APPLICATION METHOD

Preplant Incorporated

APPLICATION RATES: Apply 2 to 2.5 quarts of this product plus 1 pint of Command per acre. In areas of heavy pigweed and lambsquarters

infestation, use 2.5 to 3 quarts of this product per acre in the tank-mixture.

INTRRO Preemergent Herbicide plus SENCOR

Apply this tank-mixture in water or sprayable fluid fertilizer solution.

NOTE: DO NOT use on muck soils or on alkaline soils with greater than 7.4 pH. Crop injury may result if atrazine was applied the year preceding use of this tank-mixture.

DO NOT REPLANT CROPS OTHER THAN SOYBEANS FOR 120 DAYS AFTER APPLICATION OF THESE TANK-MIXTURES.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded; Aerial: Fixed wing, helicopter; Dry Bulk Fertilizer Impregnation

APPROVED APPLICATION METHODS

Preplant Incorporated, Preemergence Surface

Preplant Incorporated: Preplant incorporation may cause slight soybean injury early, but soybeans should recover with no subsequent effect on growth or yield.

APPLICATION RATES: Preplant Incorporated

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE* | | | |
|-------------------------|-----------------------------|--------------------|---------------------------|--------------------|
| | Less than 3% organic matter | | 3% or more organic matter | |
| | INTRRO (quarts) + | Sencor 4F* (pints) | INTRRO (quarts) + | Sencor 4F* (pints) |
| Coarse, sandy loam only | 2.0 to 2.5 | 0.5 | 2.0 to 2.5 | 0.75 |
| Medium | 2.0 to 2.5 | 0.5 to 0.75 | 2.25 to 2.75 | 0.75 |
| Fine | 2.25 to 2.75 | 0.75 to 1.0 | 2.5 to 3.0 | 1.0 |

*Use the rates listed in this label when using Sencor 4F. Use the equivalent rates when using the 50WP or DF formulations of these products. One pint of Sencor 4F equals one pound of the corresponding 50WP formulation or 2/3 pound of the corresponding DF formulation.

Use the 3 quart per acre rate of this product in areas of heavy weed infestation. Use 3 quarts of this product when black or hairy nightshade, yellow nutsedge or red rice is present.

NOTE: Do not use on coarse-textured soils. Do not use on medium- or fine-textured soils with less than 1 percent organic matter. These mixtures, preplant incorporated, may cause slight soybean injury early, but the soybeans should recover and subsequent growth or yield should not be affected.

For improved control of heavy velvetleaf infestation, add 1/2 pint of Command per acre to this tank-mixture and preplant incorporate.

APPLICATION RATES: Preemergence Surface

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE* | | | |
|-------------------------|-----------------------------|--------------------|---------------------------|--------------------|
| | Less than 3% organic matter | | 3% or more organic matter | |
| | INTRRO (quarts) + | Sencor 4F* (pints) | INTRRO (quarts) + | Sencor 4F* (pints) |
| Coarse, sandy loam only | 1.75 to 2.25 | 0.5 | 1.75 to 2.25 | 0.75 |
| Medium | 1.75 to 2.25 | 0.5 to 0.75 | 2.0 to 2.5 | 0.75 |
| Fine | 2.0 to 2.5 | 0.75 to 1.0 | 2.25 to 2.75 | 1.0 |

*Use the rates listed in this label when using Sencor 4F. Use the equivalent rates when using the 50WP or DF formulations of these products. One pint of Sencor 4F equals one pound of the corresponding 50WP formulation or 2/3 pound of the corresponding DF formulation.

NOTE: DO NOT use on sand or loamy sand soil. Use 1.5 pints of Sencor 4F per acre in this tank-mixture when applying on heavy clay soil of the Mississippi Delta. Use a minimum of 2.5 quarts of this product on coarse soils and 3 quarts in this tank-mixture on medium- or fine-textured soils to control black or hairy nightshade.

INTRRO Preemergent Herbicide plus LINURON

Apply this tank-mixture in water or sprayable fluid fertilizer solution.

NOTE: Plant seed at least 1-3/4 inches deep and DO NOT use on sand or loamy sand or on soils with less than 1 percent organic matter as crop injury may occur. DO NOT spray over the top of emerged soybeans.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded

APPROVED APPLICATION METHOD

Preemergence Surface

APPLICATION RATES: Preemergence Surface

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | | | |
|----------------------------|--------------------------------|---------------------------|------------------------------|---------------------------|
| | Less than 3% organic matter | | 3% or more organic matter | |
| | INTRRO (quarts) | linuron 4L* + (quarts) | INTRRO (quarts) | linuron 4L* + (quarts) |
| Coarse, sandy loam only | 1.75 to 2.25 | 0.5 | 1.75 to 2.25 | 0.5 to 0.75 |
| Medium | 1.75 to 2.25 | 0.5 to 0.75 | 2.0 to 2.5 | 0.75 to 1.0 |
| Fine | 2.0 to 2.5 | 1.0 | 2.25 to 2.75 | 1.25 to 1.5 |

*Use the rates listed on this label when using linuron 4L. Use equivalent rates when using linuron 50WP or 50% dry flowable formulations. One quart of linuron 4L equals 2 pounds of linuron 50WP or 2 pounds of linuron 50% dry flowable.

INTRRO Preemergent Herbicide plus LOROX PLUS

Apply this tank-mixture in water or sprayable fluid fertilizer solution.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded

APPROVED APPLICATION METHOD

Preemergence Surface

APPLICATION RATES: Preemergence Surface

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | |
|------------------------|--------------------------|----------------------------|
| | 1/2 to 3% organic matter | |
| | INTRRO* (quarts) | Lorox Plus** + (ounces) |
| Coarse | 1.75 to 2.25 | 12 to 14 |
| Medium | 1.75 to 2.25 | 14 to 16 |
| Fine | 2.0 to 2.5 | 16 to 18 |

* Use the higher rate of this product in the application rate ranges when broadleaf signalgrass is present.

**Use the higher rate of Lorox Plus in the application rate ranges on soils with higher organic matter or heavy pressure from large, deep germinating weed seeds.

INTRRO Preemergent Herbicide plus PURSUIT

Apply this tank-mixture in water or sprayable fluid fertilizer solution.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded; Aerial: Fixed wing, helicopter

APPROVED APPLICATION METHODS

Preplant Incorporated, Preemergence Surface

APPLICATION RATES: Preplant Incorporated

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | | |
|----------------------------|--------------------------------|------------------------------|-----------------------|
| | Less than 3% organic matter | 3% or more organic matter | |
| | INTRRO* (quarts) | INTRRO* (quarts) | Pursuit + (ounces) |
| Coarse, sandy loam only | 1.5 to 2.0 | 1.5 to 2.0 | 4 |
| Medium | 1.5 to 2.0 | 1.75 to 2.25 | 4 |
| Fine | 1.75 to 2.25 | 2.0 to 2.5 | 4 |

* Use the higher rate of this product in the application rate ranges when the following weeds are present: fall panicum, barnyardgrass, broadleaf signalgrass, seedling johnsongrass, red rice or yellow nutsedge.

NOTE: Preplant incorporate this tank-mixture for more consistent control of common cocklebur, common lambsquarters, jimsonweed, prickly sida, velvetleaf and sunflower and for reduced competition of morningglory and giant ragweed.

INTRRO Preemergent Herbicide plus SCEPTER

Apply this tank-mixture in water or sprayable fluid fertilizer solution.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded; **Aerial:** Fixed wing, helicopter

APPROVED APPLICATION METHODS

Preplant Incorporated, Preemergence Surface

APPLICATION RATES:

| | BROADCAST RATE PER ACRE | | |
|----------------------------|--------------------------------|------------------------------|----------------------|
| | Less than 3% organic matter | 3% or more organic matter | |
| SOIL TEXTURAL GROUP | INTRRO* (quarts) | INTRRO* (quarts) + | Scepter** (pints) |
| Coarse, sandy loam only | 1.5 to 2.0 | 1.5 to 2.0 | 1/2 to 2/3 |
| Medium | 1.5 to 2.0 | 1.75 to 2.25 | 1/2 to 2/3 |
| Fine | 1.75 to 2.25 | 2.0 to 2.5 | 1/2 to 2/3 |

*Use the higher rate of this product in the application rate ranges when the following weeds are present: fall panicum, barnyardgrass, broadleaf signalgrass, seedling johnsongrass, red rice or yellow nutsedge.

**Use the higher rate of Scepter in the application rate range when red rice, sicklepod, beggarweed or velvetleaf are present.

For improved control of heavy velvetleaf infestation, add 1/2 pint of Command herbicide per acre to this tank-mixture and preplant incorporate.

INTRRO Preemergent Herbicide plus TREFLAN

Apply this tank-mixture in water or sprayable fluid fertilizer solution.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded

APPROVED APPLICATION METHOD

Preplant Incorporated: Apply this tank-mixture within 7 days prior to planting and shallowly incorporate or surface blend into the upper 1 to 2 inches of soil within eight (8) hours after application.

APPLICATION RATES: Apply 2.5 to 3 quarts of this product plus 0.5 quart of Treflan 4EC per acre.

SOYBEANS—CONSERVATION OR MINIMUM TILLAGE

NOTE: Important information regarding Conservation or Minimum Tillage appears in the "APPLICATION INFORMATION" section at the front of this label and should be carefully reviewed in conjunction with the information in this section.

Each crop section of this label provides application rates for this product and tank-mixtures including this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control, injury to crops, persons or animals, or other unintended consequences. Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank-mixtures, including precautions on soil pH, sensitive varieties, minimum re-cropping interval and rotational guidelines.

Use the higher rates in the application rate ranges in areas of heavy weed infestation or where otherwise specified. If emerged weeds exist at planting, the application of a contact herbicide or tillage is recommended when possible to eliminate existing weeds. Do not apply when conditions favor drift.

Detailed information regarding "APPLICATION SYSTEMS" and "APPLICATION TIMING AND METHODS" should be carefully reviewed in conjunction with the information in this section. If the specific information in this section differs from the "PRODUCT INFORMATION", the specific information should control.

APPROVED APPLICATION SYSTEM

Ground: Broadcast boom**BURNDOWN PRIOR TO CROP****Roundup Agricultural Herbicides**

Annual Weeds: Apply labeled rates of Roundup agricultural herbicides, in these tank-mixtures at the proper rate for the weed per the specific label.

Perennial Weeds: At normal application rates in minimum tillage systems, perennial weeds may not be at the proper stage of growth for control. Use of labeled rates of Roundup agricultural herbicides, in these tank-mixtures under these conditions provides top kill and reduces competition from many emerged perennial grasses and broadleaf weeds. **NOTE:** When using these tank-mixtures, do not exceed the maximum labeled rate of Roundup agricultural herbicides.

Gramoxone Brand Herbicides

Broadcast Treatment: Apply Gramoxone brand herbicides in this tank-mixture immediately before, during or after planting BUT BEFORE CROP EMERGENCE. This mixture may not control weeds taller than 6 inches. Add a nonionic spreader surfactant (approved for use in crops) containing at least 75 percent surface active agent at 8 fluid ounces per 100 gallons of diluted spray. Use the treatment rates and timing of application listed in the specific product label.

PREEMERGENCE WEED CONTROL**INTRRO Preemergent Herbicide****Preemergence Surface****Sequential Program**

This product may be applied preemergence to Roundup Ready Soybeans at the Roundup Ready RATE of 2.0 quarts per acre, to be followed by a Roundup agricultural herbicide labeled for use in a postemergence sequential program, per the label instructions.

ROUNDUP READY RATE - INTRRO Preemergent Herbicide at 2.0 quarts per acre.**APPLICATION RATES:**

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | |
|---------------------|-------------------------|--|
| | INTRRO (quarts) | |
| Coarse | 2.5 | |
| Medium | 3.0 | |
| Fine | 3.0 | |

INTRRO Preemergent Herbicide plus CANOPY**APPLICATION RATES:**

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | | |
|-------------------------|-------------------------|---|-----------------|
| | INTRRO (quarts) | + | Canopy (ounces) |
| Coarse, sandy loam only | 1.75 to 2.25 | | 6 |
| Medium | 2.0 to 2.5 | | 8 |
| Fine | 2.5 to 3.0 | | 10 |

INTRRO Preemergent Herbicide plus SENCOR**APPLICATION RATES:**

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | | |
|-------------------------|-------------------------|---|--------------------|
| | INTRRO (quarts) | + | Senzor 4F* (pints) |
| Coarse, sandy loam only | 1.75 to 2.25 | | 0.5 to 0.75 |
| Medium | 2.0 to 2.5 | | 0.75 to 1.0 |
| Fine | 2.5 to 3.0 | | 1.0 to 1.5** |

*Use the rates listed in this label when using Senzor 4F. Use the equivalent rates when using the 50WP or DF formulations of these products. One pint of Senzor 4F equals one pound of the corresponding 50WP formulation or 2/3 pound of the corresponding DF formulation.

**On the heavy clay soil of the Mississippi Delta, use 1.5 pints of Senzor 4F per acre.

Use the higher rate of this product in the application rate ranges when fall panicum or crabgrass will be present.

Use the higher rate of Sencor in the application rate ranges on soils with greater than 3 percent organic matter.

DO NOT use this mixture on sand or loamy sand soils as crop injury from Sencor may occur.

DO NOT use on muck soils.

DO NOT apply on alkaline soils with a pH greater than 7.4.

Crop injury may occur if atrazine was applied the year before use of this tank-mixture.

DO NOT REPLANT CROPS OTHER THAN SOYBEANS FOR 120 DAYS AFTER APPLICATION OF THESE Tank-mixtures.

INTRRO Preemergent Herbicide plus LINURON

APPLICATION RATES:

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | | |
|-------------------------|-------------------------|---|-------------------------|
| | INTRRO (quarts) | + | linuron 4L* (quarts) |
| Coarse, sandy loam only | 1.75 to 2.25 | | 0.5 to 0.75 |
| Medium | 2.0 to 2.5 | | 0.75 to 1.0 |
| Fine | 2.5 to 3.0 | | 1.0 to 1.5 |

*Use the rates listed on this label when using linuron 4L. Use equivalent rates when using linuron 50WP or 50% dry flowable formulation. One quart of linuron 4L equals 2 pounds of linuron 50WP or 2 pounds of linuron 50% dry flowable.

Use the higher rate of this product in the application rate ranges when fall panicum or crabgrass will be present. Use the higher rate of linuron in the application rate ranges on soils with greater than 3 percent organic matter.

DO NOT use this tank-mixture on sand or loamy sand or on soil with less than 1 percent organic matter as crop injury from linuron may occur.

INTRRO Preemergent Herbicide plus LOROX PLUS

APPLICATION RATES:

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | | |
|-------------------------|-------------------------|---|------------------------|
| | INTRRO (quarts) | + | Lorox Plus (ounces) |
| Coarse, sandy loam only | 1.75 to 2.25 | | 12 to 14 |
| Medium | 2.0 to 2.5 | | 14 to 16 |
| Fine | 2.5 to 3.0 | | 16 to 18 |

INTRRO Preemergent Herbicide plus PURSUIT

APPLICATION RATES:

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | | |
|-------------------------|-------------------------|---|---------------------|
| | INTRRO (quarts) | + | Pursuit (ounces) |
| Coarse, sandy loam only | 1.75 to 2.25 | | 4 |
| Medium | 2.0 to 2.5 | | 4 |
| Fine | 2.5 to 3.0 | | 4 |

INTRRO Preemergent Herbicide plus SCEPTER

APPLICATION RATES:

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE | | |
|-------------------------|-------------------------|---|--------------------|
| | INTRRO (quarts) | + | Scepter (pints) |
| Coarse, sandy loam only | 1.75 to 2.25 | | 2/3 |
| Medium | 2.0 to 2.5 | | 2/3 |
| Fine | 2.5 to 3.0 | | 2/3 |

PEANUTS

NOTE: Each crop section of this label provides application rates for this product and tank-mixtures including this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control, injury to crops, persons or animals, or other unintended consequences. Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in

these tank-mixtures, including precautions on soil pH, sensitive varieties, minimum re-cropping interval and rotational guidelines.

Use the higher rates in the application rate ranges in areas of heavy weed infestation or where otherwise specified. If emerged weeds exist at planting, the application of a contact herbicide or tillage is recommended when possible to eliminate existing weeds. Do not apply when conditions favor drift.

Detailed information regarding "APPLICATION SYSTEMS" and "APPLICATION TIMING AND METHODS" should be carefully reviewed in conjunction with the information in this section. If the specific information in this section differs from the "PRODUCT INFORMATION", the specific information should control.

When making applications on peanuts, do not make more than two applications per year or exceed a total of 4 quarts of this product per acre per year.

Do not feed forage or hay from treated crop.

INTRRO Preemergent Herbicide

Apply this product in water.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded; Aerial: Fixed wing, helicopter; Center Pivot Irrigation

APPROVED APPLICATION METHODS

Preplant Incorporated, Preemergence Surface, Ground-crack Surface

Preplant Incorporated*: For control of Texas panicum, this application should be made as a tank-mixture with a labeled rate of pendimethalin or Sonolan DF herbicide.

*Incorporation on coarse soils may result in reduced length of weed control due to leaching with rainfall or irrigation. For improved control of yellow nutsedge and labeled broadleaf weeds, a labeled sequential ground-crack herbicide application should be made.

APPLICATION RATES:

| APPLICATION METHODS | INTRRO (quarts)* |
|---|------------------|
| Preplant Incorporated | 3 to 4 |
| Preemergence or Ground-crack Surface | 3 to 4 |

*Use the higher rate in the application rate range when black or hairy nightshade or yellow nutsedge are present.

DRY BEANS

NOTE: Each crop section of this label provides application rates for this product and tank-mixtures including this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control, injury to crops, persons or animals, or other unintended consequences. Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank-mixtures, including precautions on soil pH, sensitive varieties, minimum re-cropping interval and rotational guidelines.

Use the higher rates in the application rate ranges in areas of heavy weed infestation or where otherwise specified. If emerged weeds exist at planting, the application of a contact herbicide or tillage is recommended when possible to eliminate existing weeds. Do not apply when conditions favor drift.

Detailed information regarding "APPLICATION SYSTEMS" and "APPLICATION TIMING AND METHODS" should be carefully reviewed in conjunction with the information in this section. If the specific information in this section differs from the "PRODUCT INFORMATION", the specific information should control.

When making applications on dry beans, do not make more than one application per year or exceed a total of 3 quarts of this product per acre per year.

Do not feed forage or hay from treated crop.

Dry Beans (All Types)

FOR USE ONLY IN NEW YORK AND WEST OF THE MISSISSIPPI RIVER,
EXCEPT IN KERN COUNTY, CALIFORNIA

INTRRO Preemergent Herbicide

Apply this product in water.

NOTE: DO NOT APPLY ON DRY BEANS AFTER PLANTING AS CROP INJURY MAY OCCUR. This product may delay crop maturity and/or reduce yield if cold, wet soil conditions occur after planting.

APPROVED APPLICATION SYSTEM

Ground: Broadcast boom

APPROVED APPLICATION METHOD

Preplant Incorporated

APPLICATION RATES: Apply 2.5 to 3 quarts of this product per acre and shallowly incorporate prior to planting. Use the higher rate when black or hairy nightshade or yellow nutsedge are present.

INTRRO Preemergent Herbicide plus EPTAM**Dry Beans (All Types)**

FOR USE ONLY IN MICHIGAN AND WEST OF THE MISSISSIPPI RIVER
EXCEPT IN CALIFORNIA

Apply this tank-mixture in water.

NOTE: Read the label for Eptam thoroughly for rotational crop restrictions. This tank-mixture may delay crop maturity and/or reduce yield if cold, wet soil conditions occur after planting.

APPROVED APPLICATION SYSTEM

Ground: Broadcast boom

APPROVED APPLICATION METHOD

Preplant Incorporated

APPLICATION RATES: Apply 2 to 3 quarts of this product plus 2 to 3 pints of Eptam 7-E per acre. Use the higher rate of this product for this tank-mixture when black or hairy nightshade or yellow nutsedge are present.

USE ONLY THE 2 QUART RATE OF INTRRO PREEMERGENT HERBICIDE IN MICHIGAN.

INTRRO Preemergent Herbicide plus TREFLAN**DRY BEANS (ALL TYPES)**

FOR USE ONLY WEST OF THE MISSISSIPPI RIVER,
EXCEPT IN KERN COUNTY, CALIFORNIA

Apply this tank-mixture in water.

NOTE: This tank-mixture may delay crop maturity and/or reduce yield if cold, wet soil conditions occur after planting.

APPROVED APPLICATION SYSTEM

Ground: Broadcast boom

APPROVED APPLICATION METHOD

Preplant Incorporated

APPLICATION RATES: Apply 2.5 to 3 quarts of this product plus 1/2 quart of Treflan per acre. Use the higher rate of this product for this tank-mixture when black or hairy nightshade or yellow nutsedge are present.

RED KIDNEY BEAN TYPES ONLY

FOR USE IN ILLINOIS, INDIANA AND WISCONSIN ONLY

INTRRO Preemergent Herbicide

Apply this product in water.

NOTE: This product may delay crop maturity and/or reduce yield if cold, wet soil conditions occur after planting.

Only one application of this product may be made per cropping season.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded

APPROVED APPLICATION METHODS

Preplant Incorporated

APPLICATION RATES: Apply 2.5 to 3 quarts of this product per acre. Use the higher rate when black or hairy nightshade or yellow nutsedge are present.

LIMA BEANS (GREEN)

NOTE: Each crop section of this label provides application rates for this product and tank-mixtures including this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control, injury to crops, persons or animals, or other unintended consequences. Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank-mixtures, including precautions on soil pH, sensitive varieties, minimum re-cropping interval and rotational guidelines.

Use the higher rates in the application rate ranges in areas of heavy weed infestation or where otherwise specified. If emerged weeds exist at planting, the application of a contact herbicide or tillage is recommended when possible to eliminate existing weeds. Do not apply when conditions favor drift.

Detailed information regarding "APPLICATION SYSTEMS" and "APPLICATION TIMING AND METHODS" should be carefully reviewed in conjunction with the information in this section. If the specific information in this section differs from the "PRODUCT INFORMATION", the specific information should control.

When making applications on lima beans, do not make more than one application per year or exceed a total of 3 quarts of this product per acre per year.

Do not feed forage or hay from treated crop.

INTRRO Preemergent Herbicide

FOR USE IN ALL STATES, EXCEPT IN KERN COUNTY, CALIFORNIA

Apply this product in water.

NOTE: This product may delay crop maturity and/or reduce yield if cold, wet soil conditions occur after planting.

APPROVED APPLICATION SYSTEM

Ground: Broadcast boom

APPROVED APPLICATION METHOD

Preplant Incorporated**APPLICATION RATES:** Preplant Incorporated

| SOIL TEXTURAL GROUP | BROADCAST RATE PER ACRE |
|---------------------|-------------------------|
| | INTRRO (quarts) |
| Coarse | 2.0 |
| Medium and Fine* | 2.5 to 3.0 |

*Use the higher rate in the application rate range when black or hairy nightshade or yellow nutsedge are present.

WOODY ORNAMENTALS

NOTE: Each crop section of this label provides application rates for this product and tank-mixtures including this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control, injury to crops, persons or animals, or other unintended consequences.

Detailed information regarding "APPLICATION SYSTEMS" and "APPLICATION TIMING AND METHODS" should be carefully reviewed in conjunction with the information in this section. If the specific information in this section differs from the "PRODUCT INFORMATION", the specific information should control.

INTRRO Preemergent Herbicide

FOR USE ON JUNIPER (*JUNIPERUS SPP.*) AND YEW (*TAXUS SPP.*)

Apply this product in water.

NOTE: Topical application or contact of this product with green foliage of the woody ornamental may cause injury and is not recommended. In case green foliage is accidentally sprayed, overhead irrigation within 1 hour after application will minimize injury symptoms (i.e., leaf tip burn, discoloration, distortion, etc.). This product is recommended for this use for application by certified, professional applicators only.

DO NOT USE THIS PRODUCT ON SEEDBEDS, UNROOTED CUTTINGS OR PRIOR TO TRANSPLANTING. DO NOT USE THIS PRODUCT IN GREENHOUSES OR OTHER ENCLOSED STRUCTURES, APPLIED THROUGH IRRIGATION SYSTEMS OR MIXED WITH SPRAYABLE FLUID FERTILIZERS. APPLICATIONS DURING PERIODS WHEN TEMPERATURE EXCEEDS 90° F MAY CAUSE INJURY TO ORNAMENTALS.

APPROVED APPLICATION SYSTEMS

Ground: Broadcast boom, banded

APPROVED APPLICATION METHOD

Post-Transplant Directed: Apply this product as a directed spray after transplanting or to established plantings prior to weed emergence.

APPLICATION RATE: Apply 4 quarts of this product per acre as a broadcast treatment.

DO NOT exceed a total of 4 quarts of INTRRO Preemergent Herbicide per year.

APPENDIX

LIST OF COMMON AND SCIENTIFIC NAMES OF ANNUAL GRASSES AND BROADLEAF WEEDS.

ANNUAL GRASSES

| | |
|--|--|
| Barnyardgrass <i>Echinochloa crus-galli</i> | Panicum, browntop <i>Panicum fasciculatum</i> |
| Crabgrass <i>Digitaria ischaemum</i> <i>Digitaria sanguinalis</i> | Panicum, fall <i>Panicum dichotomiflorum</i> |
| Cupgrass, woolly <i>Eriochloa villosa</i> | Panicum, Texas <i>Panicum texanum</i> |
| Foxtail, giant <i>Setaria faberi</i> | Rice, red <i>Oryza sativa</i> |
| Foxtail; green, robust purple, robust white <i>Setaria viridis</i> | Sandbur; Grassbur <i>Cenchrus incertus</i> |
| Foxtail, yellow <i>Setaria lutescens</i> | Shattercane; Wild cane <i>Sorghum bicolor</i> |
| Goosegrass <i>Eleusine indica</i> | Signalgrass, broadleaf <i>Brachiaria platyphylla</i> |
| Johnsongrass, seedling <i>Sorghum halepense</i> | Sprangletop, red <i>Leptochloa filiformis</i> |
| Millet, proso <i>Panicum miliaceum</i> | Witchgrass <i>Panicum capillare</i> |

ANNUAL BROADLEAVES

| | |
|---|---|
| Beggarweed, Florida <i>Desmodium tortuosum</i> | Mustard <i>Brassica spp.</i> |
| Carpetweed <i>Mollugo verticillata</i> | Nightshade, black <i>Solanum nigrum</i> |
| Cocklebur <i>Xanthium strumarium</i> | Nightshade, hairy <i>Solanum sarrachoides</i> |
| Coffeeweed <i>Hemp sesbania</i> <i>Sesbania exaltata</i> | Pigweed; Carelessweed <i>Amaranthus spp.</i> |
| Copperleaf, hophornbeam <i>Acalypha spp.</i> | Purslane <i>Portulaca oleracea</i> |
| Galinsoga <i>Galinsoga spp.</i> | Rusley, Florida <i>Richardia scabra</i> |
| Groundcherry, annual <i>Physalis spp.</i> | Ragweed, common <i>Ambrosia artemisiifolia</i> |
| Groundcherry, cutleaf <i>Physalis angulata</i> | Ragweed, giant <i>Ambrosia trifida</i> |
| Jimsonweed <i>Datura stramonium</i> | Sicklepod <i>Cassia obtusifolia</i> |
| Kochia <i>Kochia scoparia</i> | Sida, prickly; Teaweed <i>Sida spinosa</i> |
| Lambsquarters <i>Chenopodium album</i> | Smartweed <i>Polygonum pensylvanicum</i> <i>Polygonum persicaria</i> |
| Morningglory: | Starbur, bristly <i>Acanthospermum hispidum</i> |
| Tall <i>Ipomoea purpurea</i> | Sunflower, common <i>Helianthus annuus</i> |
| Pitted <i>Ipomoea lacunosa</i> | Velvetleaf; Buttonweed <i>Abutilon theophrasti</i> |
| Ivyleaf <i>Ipomoea hederacea</i> | Waterhemp <i>Amaranthus tuberculatos</i> |
| Entireleaf <i>Ipomoea hederacea</i> <i>var. integruscula</i> | |

SEDGE

Nutsedge, yellow
Cyperus esculentus

CALIFORNIA

This product has been approved by the U.S. Environmental Protection Agency for the uses, crops and sites listed in this label. Approval of the items listed below is pending under the State of California registration requirements.

These use conditions, crops and sites may not be treated with this product in California until approval is received:

- Aerial applications.
- INTRRO Preemergent Herbicide plus atrazine in early preplant applications on grain sorghum (milo).
- Tank-mixtures with Canopy, Command, Lorox Plus and Scepter in soybeans.
- Tank-mixtures with Banvel, Marksman, Prowl, and atrazine 90DF in corn.
- Tank-mixtures with Gramoxone MAX or Extra in grain sorghum (milo).
- Control of *Ipomoea hederacea*.
- Control of *Ipomoea hederacea* var.
- Control of *Ipomoea integruscula*.
- Control of *Ipomoea lacunosa*.
- Control of *Jacquemontia tamnifolia*.
- Control of *Leptochloa filiformis*.
- Control of *Panicum fasciculatum*.

INTRRO, Roundup, Roundup Ready, Roundup Ready RATE, and Monsanto and Vine Design are trademarks of Monsanto Technology LLC. All other trademarks are the property of their respective owners.

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

Packed For:
MONSANTO COMPANY
800 N. LINDBERGH BLVD.
ST. LOUIS, MISSOURI, 63167 U.S.A.
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EPA Reg. No.524-314

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

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RESTRICTED USE PESTICIDE

due to ground water concerns. 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.



Preemergent Herbicide

By *Monsanto*

Emulsifiable herbicide for weed control in soybeans, peanuts, grain sorghum (milo) and crops listed.

The use of this product may be hazardous to your health. This product contains alachlor, which has been determined to cause tumors in laboratory animals.

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

Carefully follow detailed instructions in label booklet.

Not for use in Nassau and Suffolk counties of New York.

Read the entire label before using this product.

Use only according to label instructions.

Read “LIMIT OF WARRANTY AND LIABILITY”, which appears in the label booklet, before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. IT IS INTENDED THAT REPACKAGING BE ONLY IN ACCORDANCE WITH A MONSANTO REPACKAGING OR TOLL REPACKAGING AGREEMENT.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

DANGER! PELIGRO!

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

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.

CAUSES SKIN IRRITATION. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. This product may cause skin sensitization reactions in some people.

HARMFUL IF SWALLOWED.

HARMFUL IF INHALED.

Avoid breathing vapor or spray mist.

Do not get in eyes, on skin or on clothing.

| FIRST AID | |
|-------------------------------|--|
| IF IN EYES | <ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses if present after the first 5 minutes then continue rinsing eye. Call a poison control center or doctor for treatment advice. |
| IF ON SKIN OR CLOTHING | <ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice. Sensitized persons should avoid further contact and reuse of contaminated clothing. |

| | |
|---|--|
| IF SWALLOWED | <ul style="list-style-type: none"> Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. |
| IF INHALED | <ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. |
| <ul style="list-style-type: none"> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of an emergency involving this product, Call Collect, day or night (314) 694-4000. This product is identified as INTRRO® Preemergent Herbicide, EPA Registration No. 524-314. | |
| NOTE TO PHYSICIAN | |
| <ul style="list-style-type: none"> This product may pose an aspiration pneumonia hazard. Contains petroleum distillate. Probable mucosal damage may contraindicate the use of gastric lavage. | |

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or viton. If you want more options, follow the instruction for category H on an EPA chemical-resistance category selection chart.

Mixers and loaders using engineering controls and applicators must wear: long-sleeved shirt and long pants; shoes and socks; and goggles or face shield.

In addition to the above, mixers and loaders and other persons must wear: chemical-resistant gloves and chemical-resistant apron when cleaning equipment.

Mixers and loaders not using engineering controls and all other handlers exposed to the concentrate must wear: coveralls over short-sleeved shirt and short pants, socks and chemical-resistant footwear, goggles or face shield, chemical-resistant gloves, and chemical-resistant apron.

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

Engineering Control Statement: Mixers and loaders supporting aerial applications, chemigation, or impregnation of dry bulk fertilizer are required to use a mechanical transfer system designed by the manufacturer to transfer liquid pesticide in a manner that prevents the liquid (but not necessarily any vapor) from contacting handlers and other people during the transfer. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4)).

IMPORTANT: Mixers and loaders using closed systems must: (1) wear PPE specified above for mixers and loaders using engineering controls, and (2) must be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown, the following PPE: Coveralls, chemical-resistant footwear.

| User Safety Recommendations |
|---|
| Users should: <ul style="list-style-type: none"> Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. |

Environmental Hazards

This chemical is toxic to terrestrial and aquatic plants, fish, and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas.

Alachlor can contaminate surface water through spray drift. Under some conditions, alachlor may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several weeks post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water. Do not apply to water or to areas where surface water is present, or to intertidal areas below the mean high water mark.

Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Check valves or anti-siphoning devices must be used on all mixing and/or irrigation equipment. Disposal of excess pesticide, spray mixtures or rinsate must be according to label use instructions or according to the state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office.

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

This chemical and/or its metabolites are known to leach through soil into ground water under certain conditions as a result of registered uses. Use of this chemical in areas where soils are permeable, particularly where the water table is too shallow, may result in ground water contamination.

Do not apply to highly permeable soils (as classified by the USDA Natural Resources Conservation Service) where the depth to ground water is 30 feet or less.

Physical or Chemical Hazards

COMBUSTIBLE.

Do not use or store near heat or flame.

Use only with adequate ventilation.

In case of: FIRE, use water spray, foam, dry chemical or CO₂.

SPILL or LEAK, soak up, remove and keep away from humans and domestic animals.

DIRECTIONS FOR USE

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

| Agricultural Use Requirements |
|---|
| Use this product only in accordance with its labeling and with the Worker Protection Standard. 40 CFR Part 170. Refer to supplemental labeling under “AGRICULTURAL USE REQUIREMENTS” in the DIRECTIONS FOR USE section for information about this standard. |

(See product booklet for additional Directions for Use)

Storage and Disposal

Proper pesticide storage and disposal are essential to protect against exposure to people and the environment due to leaks and spills, excess product or waste, and vandalism. Do not allow this product to contaminate water, foodstuffs, feed or seed by storage or disposal.

PESTICIDE STORAGE: STORE ABOVE 32° F TO KEEP PRODUCT IN SOLUTION. Below 32° F crystals may form and settle to the bottom. If crystals form, place in a warm room and roll and/or shake the container frequently to redissolve before using. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep container closed to prevent spills and contamination.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container, including rinsate, by application in accordance with label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program. Such programs are often run by state or local governments or by industry. All disposal must be in accordance with applicable Federal, state and local regulations and procedures.

CONTAINER HANDLING AND DISPOSAL: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning this container before refilling is the responsibility of the refiller. Cleaning this container before final disposal is the responsibility of the person disposing of the container.

To clean this container before final disposal, empty the remaining contents from this container into application equipment or a tank mix. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two or more times. Then offer this container for recycling, if available. To obtain information about recycling refillable containers, contact Monsanto Company at 1-800-768-6387.

(See label booklet for Complete Directions for Use.)

For more information, Call toll-free 1-800-332-3111.

ACTIVE INGREDIENT:

| | |
|---|--------|
| *Alachlor, 2-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide..... | 45.1% |
| OTHER INGREDIENTS:..... | 54.9% |
| | 100.0% |

Contains petroleum distillates.

*Contains 480 grams per liter or 4 pounds per gallon of 2-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide.

Compound, Weed Killing, Liquid

NA1993, RQ (Chlorobenzene)

EPA Reg. No. 524-314

INTRRO is a registered trademark of Monsanto Technology LLC.

Packed For:

MONSANTO COMPANY

800 N. LINDBERGH BLVD.

ST. LOUIS, MISSOURI, 63167 U.S.A.

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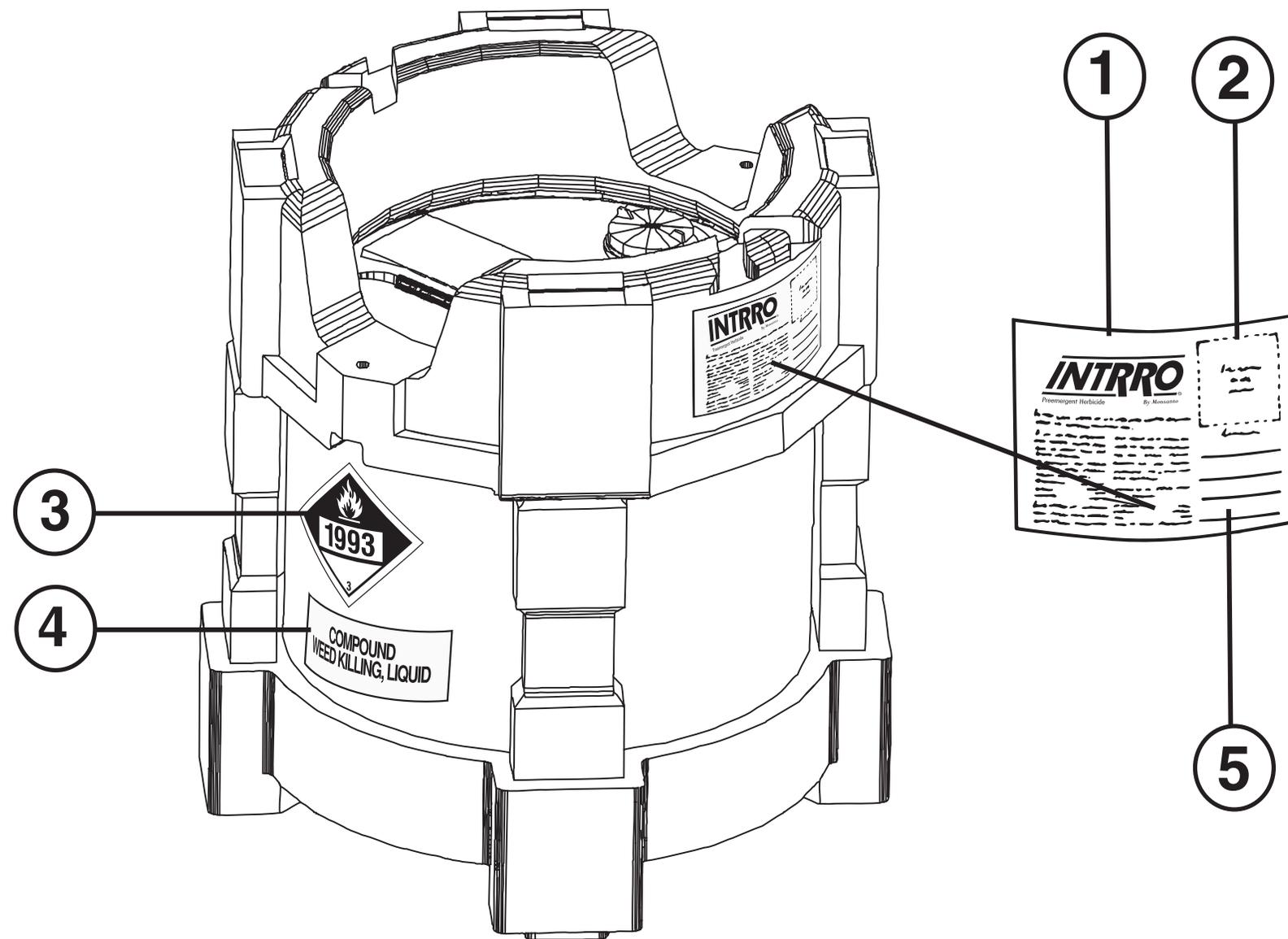
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PLACE
Complete Directions For Use
Booklet
HERE

NET CONTENTS
150 Gal

EPA Est. 524-IA-1

PLACARD AND LABEL PLACEMENT FOR INTRRO® PREEMERGENT HERBICIDE



Prepare the mini-bulk tank sides for labeling using a mild detergent cleaning solution and steel wool (if necessary). Thoroughly rinse before proceeding.

Proper label application requires removing only 1 section of backing at a time at scores. Do not remove entire backing before applying. Remove first backing strip, position label properly, remove the remaining liner and smooth label into place.

- 1) Appropriate product label must be applied on the tank side with the smooth labeling surface.
- 2) Directions for Use label booklet for the appropriate product should be affixed to the product label in the place provided.
- 3) D.O.T. Combustible Placards applied on opposite sides of tank as shown.
- 4) "Compound, weed killing, liquid" labels applied, under Combustible Placards, on opposite sides of tank as shown.
- 5) Dealer EPA Establishment Number and Net Contents must be added to the label prior to shipping from dealer location.

NOTE: FOR CONTAINERS WITH CAPACITY GREATER THAN OR EQUAL TO 119 GALLONS OR WITH PACKAGES THAT HAVE A REPORTABLE QUANTITY (RQ).

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