

34704-1072

1/8/2013

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**U.S. ENVIRONMENTAL PROTECTION AGENCY**  
**Office of Pesticide Programs**  
**Registration Division (7504P)**  
**Ariel Rios Building**  
**1200 Pennsylvania Ave., NW**  
**Washington, D.C. 20460**

EPA Registration Number:  
 34704-1072

Date of Issuance:  
 JAN 08 2013

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance: **Unconditional**

Name of Pesticide Product:  
**LPI Metolachlor + Atrazine**

Name and Address of Registrant (include ZIP Code):

Loveland Products, Inc.  
 P.O. Box 1286  
 Greeley, CO 80632-1286

**Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.**

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5) provided that you:

- 1) Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
- 2) Make the following label revisions:
  - a. Add the EPA Registration Number 34704-1072 to the label
  - b. Submit one (1) copy of final printed labeling before you release the product for shipment.

If these requirements are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A copy of your label stamped "Accepted with comments" is enclosed for your records.

The basic formulation CSF [dated September 26, 2012] of the product referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable. The basic CSF will be added to your file.

If you have any questions regarding this Notice, please contact Hope Johnson at (703) 305-5410 or at johnson.hope@epa.gov.

Signature of Approving Official:

Kable Bo Davis  
 Product Manager 25  
 Herbicide Branch  
 Registration Division (7505P)

Date:

JAN 08 2013

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**RESTRICTED USE PESTICIDE**  
Due to ground and surface 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.

# LPI METOLACHLOR + ATRAZINE HERBICIDE

**FOR WEED CONTROL IN CORN (ALL TYPES)**

**Active Ingredient:**

Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine).....	33.0%
Atrazine Related Compounds.....	0.7%
Metolachlor: 2-chloro- N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide .....	26.1%

<b>Other Ingredients:</b> .....	<b>40.2%</b>
Total: .....	100.0%

This product contains 3.1lbs atrazine + related compounds per gallon and 2.4 lbs of metolachlor active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 34704-XXXX  
EPA Est. No. 34704-MS-001

NET CONTENTS: 2.5 GALLONS

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

JAN 08 2013

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

34704 - 1072

<b>FIRST AID</b>	
<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have affected person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If Inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p><b>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-944-8565</b></p> <p>Note to Physician: If ingested, induce emesis or lavage stomach. Administration of an aqueous slurry of activated charcoal can be considered. Treat symptomatically.</p>	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin. Do not breathe vapors or spray mist. Avoid contact with eyes, skin, or clothing. Causes moderate eye irritation. Prolonged or frequent skin contact may cause allergic reactions in some individuals.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Some materials that are chemical-resistant to this product are barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton. If you want more options, follow the instructions for Category H on an EPA chemical resistance category selection chart.

**Mixers, loaders, applicators, flaggers, and other handlers must wear:**

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton,
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear (if overhead exposure), and

- A chemical-resistant apron, when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

See **Engineering Controls** for additional requirements.

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

### **ENGINEERING CONTROLS**

Mixers and loaders supporting aerial applications must use a closed system that meets the requirements for dermal protection listed in the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170.240(d)(4)] and must:

- Wear the long-sleeved shirt and long pants, chemical resistant gloves made of waterproof materials in category H, shoes and socks
- Wear protective eyewear if the system operates under pressure, and
- Be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown: coveralls, chemical resistant footwear, and chemical resistant apron.

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this label for applicators, however, they need not wear chemical-resistant gloves when using an enclosed cockpit.

Flaggers supporting aerial applications must use an enclosed cab that meets the definition on the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, flaggers must:

- Wear the PPE required on this labeling for flaggers.
- Be provided, have immediately available, and use in an emergency when they must exit the cab in the treated area:  
Coveralls, chemical resistant gloves made of waterproof materials, chemical resistant footwear, and chemical resistant headgear (if overhead exposure);
- Take off any PPE that was worn in the treated area before reentering the cab;
- Store all such PPE in a chemical resistant container, such as a plastic bag, to prevent contamination of the cab.

When applicators use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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 pesticide contains atrazine, which is toxic to 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. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water and rinsate.

#### Ground Water Advisory

This product contains both the active ingredients atrazine and metolachlor.

Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Metolachlor has the potential to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

#### Surface Water Advisory

Metolachlor has the potential to contaminate surface water through ground spray drift. Under some conditions, metolachlor may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying 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 overlaying tile drainage systems that drain to surface water.

#### Mixing/Loading Instructions

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 antisiphoning devices must be used on all mixing and/ or irrigation equipment.

This product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, 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 rainwater 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 at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading sites.

Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed.

This product must not be mixed or loaded within 50 feet of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product must not be applied aerially or by ground within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

One of the following restrictions must be used in applying atrazine to tile-outletted terraced fields containing standpipes:

- (1) Do not apply this product within 66 feet of stand pipes in tile-outletted terraced fields.
- (2) Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2 to 3 inches in the entire field.
- (3) Apply this product to the entire tile-outletted terraced field under a no-till practice only when a high crop residue management practice is practiced. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

**DIRECTIONS FOR USE**

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

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through [www.atrazine-watershed.info], or [1-866-365-3014]. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact Loveland Products, Inc. for a refund.

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

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. 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 24 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, such as barrier laminate or viton, and
- Shoes plus socks.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.**

**Note: Not for sale, use, or distribution in Nassau County or Suffolk County, New York.**

**USE INFORMATION**

This product is a selective herbicide that may be used before planting, before or after emergence (see directions) for control of most annual grasses and broadleaf weeds in corn (all types). This product may be tank mixed with other herbicides specified on this label for weed control in conventional, minimum-till, and no-till corn.

**Note:** Tank mixtures are permitted only in those states where the tank mix partner is registered. Refer to and follow the label for each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

Following many years of continuous use of atrazine (one of the ingredients in this product), and products chemically related to atrazine, biotypes of some of the weeds listed on this label which are controlled by the atrazine component have been reported to develop resistance to this and chemically related herbicides. Where this is known or suspected, and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of this product in combination or in sequence with registered herbicides, which do not contain triazines. Consult with your State Agricultural Extension Service for specific recommendations.

When tank-mixing or sequentially applying atrazine and/or simazine or products containing atrazine and/or simazine to corn, do not exceed a combined application rate of 2.0 pounds combined active ingredient per acre for any single application, and the total pounds of atrazine and/or simazine applied (lbs/A) must not exceed 2.5 pounds combined active ingredient per year.

This product alone or in tank mixture with atrazine, isoxaflutole (Balance®), metolachlor (Stalwart C), or simazine (Sim-Trol®) may be applied early preplant, preplant surface, preplant incorporated, or preemergence in water or fluid fertilizer. Apply post-emergence treatments of this product using water only as the carrier. This product may be applied in tank mix combination with paraquat (Gramoxone® Xtra), 2,4-D + glyphosate (Landmaster® BW), or glyphosate (Makaze®) with or without the above herbicides preplant surface or preemergence.

This product may be applied in water by aircraft. Applications in fluid fertilizer should be only by ground equipment.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

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

Do not apply this product in a greenhouse.

Do not graze or feed forage from treated areas for 60 days following application for corn (all types) (60-day PHI).

Post-emergent applications to corn must be made before the crop reaches 12 inches in height.

Do not apply under conditions, which favor runoff or wind erosion of soil containing this product to nontarget areas.



To prevent off-site movement due to runoff or wind erosion:

1. Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
2. Do not apply to impervious substrates, such as paved or highly compacted surfaces.
3. Do not use tailwater from the first flood or furrow irrigation of treated fields to treat nontarget crops, unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial weed control.

Dry weather following preemergence application of this product or a tank mixture may reduce effectiveness. Cultivate if weeds develop.

Thoroughly clean sprayer or other application device before using. Dispose of cleaning solution in a responsible manner. Do not use a sprayer or applicator contaminated with other materials, or crop damage or sprayer clogging of the application device may occur.

### MIXING PROCEDURES

Shake 2.5 gallon jugs well or thoroughly recirculate larger containers and bulk tanks before using. This product is a liquid that may be mixed with water or fluid fertilizer and applied as a spray. This product may also be sprayed onto dry bulk granular fertilizer and applied with the granular fertilizer.

#### **Dry Bulk Granular Fertilizers**

Many dry bulk granular fertilizers may be impregnated or coated with this product and used to control weeds in corn.

When applying this product with dry bulk granular fertilizers, follow all directions for use and precautions on this product's label regarding target crops, rates per acre, soil texture, application methods (including timing of application), and rotational crops.

All individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.

Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm fertilizer impregnation is prohibited. No more than 500 tons of dry bulk fertilizer can be impregnated per day. No single facility may impregnate fertilizer with this product for more than 30 days per calendar year. The commercial facility impregnating the dry bulk fertilizer must inform, in writing, the user (applicator) of the dry bulk fertilizer that:

- Applicators must wear long-sleeved shirt, long pants, shoes, and socks.
- The restricted-entry interval is 24 hours.

Prepare the herbicide/ fertilizer mixture by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray this product onto the fertilizer must be placed to provide uniform spray coverage. Care should be taken to aim the spray directly onto the fertilizer only and to avoid spraying the walls of the blender.

If the herbicide/fertilizer mixture is too wet, add a highly absorptive material, such as Agsorb® or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture. Absorptive materials should be added only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of 6/30 particle size or of a size similar to that of the fertilizer material being used. Generally, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

Calculate the amount of this product to be used by the following formula:

$$\begin{array}{rclcl}
 2000 & \times & \text{pts/A of liquid or} & = & \text{pts of liquid or flowable} \\
 \text{lbs of fertilizer per acre} & & \text{flowable product} & & \text{product per ton of fertilizer} \\
 \\ 
 2000 & \times & \text{lbs/A of} & = & \text{lbs of dry product} \\
 \text{lbs of fertilizer per acre} & & \text{dry product} & & \text{per ton of fertilizer}
 \end{array}$$

**Pneumatic (Compressed Air) Application**

High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixtures to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix this product with Exxon Aromatic 200 at a rate of 2.0 to 2.5 pints per gallon of this product. Aromatic 200 is a noncombustible/nonflammable petroleum product. Aromatic 200 may be used in either a fertilizer blender or through direct injection systems. Drying agents should not be used when using Aromatic 200. Consult the manufacturer's MSDS for information relating to the flammability of this solvent.

**Notes:** (1) Mixtures of this product and Aromatic 200 must be used on dry fertilizer only. Poor results or crop injury may result if these mixtures are used in water or liquid fertilizer solutions for spraying applications. (2) When impregnating this product in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200. The use of Agsorb FG or drying agents of 6/30 particle size is recommended. (3) Drying agents are not recommended for use with On-The-Go impregnation equipment.

*Precautions: To avoid potential for explosion, (1) do not impregnate this product on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers; (2) do not combine this product with a single superphosphate (0-20-0)*

or treble superphosphate (0-46-0); (3) do not use this product on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.

**Application**

Apply 200 to 700 pounds of the herbicide/fertilizer mixture per acre. For best results, apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential in order to prevent possible crop injury or injury to subsequent rotational crops. Nonuniform application may also result in unsatisfactory weed control. In areas where conventional tillage is practiced, a shallow incorporation of the mixture into the soil is recommended to obtain satisfactory weed control. On *fine-* or *medium-textured* soils in areas where soil incorporation is not planned, i.e., reduced tillage situations or in some conventional till situations, make applications approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil. On *coarse-textured* soils, make applications approximately 14 days prior to planting.

*Precautions: (1) To help avoid rotational crop injury, make applications as early as possible, since this product impregnated onto dry bulk granular fertilizers can be expected to last longer in the soil than when this product is applied as a spray in water or fluid fertilizer. (2) To avoid potential crop injury, do not use the herbicide/fertilizer mixture on crops where planting beds are to be formed.*

**Application in Water or Fluid Fertilizers**

**This Product Alone:** Fill the spray tank 1/2 to 3/4 full with water or fluid fertilizer, add the proper amount of this product, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform suspension.

**Tank Mixtures:** Fill the spray tank 1/2 to 3/4 full with water or fluid fertilizer, add the proper amount of this product, then add atrazine, dicamba, isoxaflutole (Balance), linuron, or simazine; next add metolachlor; then add paraquat, 2,4-D + glyphosate (Landmaster BW), or glyphosate, depending on the tank mix combination desired; and finally, add the rest of the water or fluid fertilizer. Only water may be used with this product + Liberty® Herbicide when applied postemergence to corn designated as tolerant to Liberty (glufosinate); and with Makaze® when applied postemergence to corn designated as tolerant to Makaze (glyphosate). Provide sufficient agitation during mixing and application to maintain a uniform suspension.

**Compatibility Test**

Ajar test is recommended before tank mixing to ensure compatibility of this product with other pesticides. The following test assumes a spray volume of 25.0 gallons per acre. For other spray volumes, make appropriate changes in the ingredients.

**Note:** Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray. (Since liquid fertilizers vary, even within the same analysis, always check

compatibility with pesticide(s) each time before use. Incompatibility of tank mixtures is more common with suspensions of fertilizer and pesticides. Commercial application equipment may improve compatibility in some instances. Check compatibility using this procedure:

1. Add 1.0 pint of carrier (fertilizer or water) to each of two 1.0 quart jars with tight lids.  
**Note:** Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.
2. To one of the jars, add 1/4 teaspoon or 1.2 milliliters of a compatibility agent approved for this use (1/4 teaspoon is equivalent to 2.0 pints per 100 gallons spray). Shake or stir gently to mix. When an adjuvant is to be used with this product, Loveland Products, Inc. recommends the use of Compex®, Unite® or a Chemical Producers and Distributors Association (CPDA) certified adjuvant.
3. To both jars, add the appropriate amount of pesticide(s) in their relative-proportions based on specified label rates. If more than one pesticide is used, add them separately with dry herbicides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix. The appropriate amount of herbicides for this test follows:

**Dry herbicides:** For each pound to be applied per acre, add 1.5 level teaspoons to each jar.

**Liquid herbicides:** For each pint to be applied per acre, add 0.5 teaspoon or 2.5 milliliters to each jar.

4. After adding all ingredients, put lids on and tighten, and invert each jar 10 times to mix. Let the mixtures stand 15 to 30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the 2 jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (A) slurry the dry pesticide(s) in water before addition, or (B) add 1/2 of the compatibility agent to the fertilizer or water and the other 1/2 to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is still observed, do not use the mixture.
5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the Storage and Disposal section in this label.

#### SOIL TEXTURE INFORMATION

Within rate ranges in all tables on this label, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter.

Directions are based upon soil textural classes, generally categorized as follows:

Coarse	Medium	Fine	
Sand	Loam	Sandy clay loam	Sandy clay
Loamy sand	Silt loam	Silty clay loam	Silty clay
Sandy loam	Silt	Clay loam	Clay

**APPLICATION INFORMATION**

**Ground Application:** Use sprayers that provide accurate and uniform application. Screens in nozzles and in suction and in-line strainers should be no finer than 50-mesh. Use a pump with capacity to: (1) maintain 35 to 40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Unless otherwise specified, use a minimum of 10.0 gallons of spray mixture per acre. Rinse sprayer thoroughly with clean water immediately after use.

For band applications, calculate amount to be applied per acre as follows:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

**Low Carrier Application (Broadcast Ground Application Only):** Use sprayers, such as Ag-Chem RoGator®, Hagie, John Deere Hi-Cycle™, John Deere 4700 Sprayer, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®, that provide accurate and uniform application. Only water may be used as a carrier. Screens in suction and in-line strainers should be 50-mesh. Manufacturers may require that tip screens as fine as 100-mesh be used with some nozzles. Use a pump with capacity to: (1) maintain up to 35 to 40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5.0 gallons of spray mixture per acre. Maximum recommended sprayer speed is 15 mph. Maintain uniform travel speed while spraying. Rinse sprayer thoroughly with clean water immediately after each use.

**Note:** Low pressure nozzles are recommended to reduce drift and increase application accuracy. Care should be taken when using automatic rate-controlling devices to spray the material within the rated working pressure and flow ranges of the nozzle selected. Nozzle screens should be used when recommended by the manufacturer. All nozzles should be placed on 20-inch centers, except flooding types which should be placed on 40-inch centers. When Flat Fan-type nozzles are used, angles of 80° or 110° are recommended. Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips.

**Aerial Application (for this product alone):** Use aerial application only where broadcast applications are specified. Apply a minimum of 1.0 gallon of water for each 1.0 gallon of this product applied per acre, but for rates below 1.0 gallon per acre, use in sufficient water to equal 2.0 gallons per acre of total spray. Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 feet,

using low-drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply this product by aircraft at minimum upwind distance of 400 feet from sensitive plants.

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

**Aerial 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 outermost 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 downward more than 45 degrees.

Where states have more stringent regulations, they must be observed. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information section below.

**Aerial Drift Reduction Advisory Information**

**Information on 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 **Wind, Temperature and Humidity, and Temperature Inversions**).

**Controlling Droplet Size**

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. 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 parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from 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 the largest droplets and the lowest drift.

**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 Height**

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 exposure of droplets to evaporation and wind.

**Swath Adjustment**

When applications are made with a crosswind, the swath will be displaced downwind. 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 drops, etc.).

**Wind**

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application must be avoided below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray 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 occur 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, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

**Rate Limitations**

Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or greater setbacks), which are different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.

**Note:** For purposes of calculating total atrazine active ingredient applied, this product contains 3.1 pounds active ingredient atrazine + related compounds per gallon (0.775 pound active ingredient per quart).

**For All Soil Applications**

Apply a maximum of 2.0 pounds active ingredient per acre (2.6 quarts of product per acre) as a single preemergent broadcast application on soils that are not highly erodible or on highly erodible soils (as defined by the Natural Resources Conservation Service) if practicing conservation tillage and at least 30% of the soil surface is covered with plant residues at planting; or apply a maximum of 1.6 pounds active ingredient per acre (2.1 quarts of product per acre) as a single preemergent broadcast application on highly erodible soils (as defined by the Natural Resources Conservation Service) if less than 30% of the soil surface is covered with plant residues at planting; or 2.0 pounds active ingredient per acre (2.6 quarts of product per acre) if only applied postemergent.

**FOR POSTEMERGENCE APPLICATION TO CORN**

If no atrazine was applied prior to corn emergence, apply a maximum of 2.0 pounds active ingredient per acre (2.6 quarts per acre) broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds active ingredient per acre (3.2 quarts of this product) per calendar year.

**ROTATIONAL CROPS**

Do not rotate to food or feed crops other than those listed below:

- (1) If treated crop is lost due to poor germination, hail, flood, insects, etc., corn may be replanted immediately. Do not make a second broadcast application. If the original



application was banded and the second crop is planted in the untreated row middles, a second banded treatment may be applied. (2) Corn, sorghum, soybeans, cotton, or peanuts may be planted the spring following treatment. Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result. (3) Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer. (4) In eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans for 18 months following application if the rate applied to corn or sorghum was more than 2.0 pounds active ingredient of atrazine or equivalent band application rate, or soybean injury may occur. (5) If applied after June 10, do not rotate with crops other than corn or sorghum the next year, or crop injury may occur. (6) In the High Plains and Inter-mountain areas of the West, where rainfall is sparse and erratic or where irrigation is required, use only when corn or sorghum is to follow corn or sorghum, or a crop of untreated corn or sorghum is to precede other rotational crops. (7) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes the year following application, or injury may occur.

**WEED CONTROL INFORMATION**

This product is effective for the control of grassy and broadleaf weed plants that can infest agricultural fields. The spectrum of effective weed control may differ depending upon the application pattern and timing of application(s) of this product. The following table is a partial illustration of the potential usefulness of this product to mitigate the growth of weeds.

<b>Weeds Controlled - Preplant and Preemergence Applications</b>			
barnyardgrass (watergrass)	green foxtail	carpetweed	jimsonweed
browntop panicum	prairie cupgrass	chickweed	lambsquarters
crabgrass	red rice	cocklebur*	morningglory
crowfootgrass	signalgrass	common ragweed	mustards
fall panicum	(Brachiilria)*	Florida pusley	nightshades
foxtail millet	southwestern	galinsoga	pigweed
giant foxtail	cupgrass	giant ragweed*	smartweed
goosegrass	witchgrass	henbit	velvetleaf*
	yellow foxtail		waterhemp
	yellow nutsedge*		
<b>Weeds Controlled - Postemergence Applications</b>			
barnyardgrass (watergrass)	fall panicum	jimsonweed	prickly sida
cocklebur	flixweed	kochia	purslane
common ragweed	giant foxtail	lambsquarters	ragweed
crabgrass	green foxtail	morningglory	smartweed
crowfootgrass	yellow foxtail	mustard	velvetleaf
		pigweed	waterhemp
<b>Weeds Partially Controlled**</b>			
sandbur seedling	shattercane	volunteer sorghum	yellow nutsedge
johnsongrass	sicklepod	woolly cupgrass	common purslane

\*Control of these weeds can be erratic, especially under dry weather conditions. Control escaped weeds with cultivation or application of an appropriate EPA-registered post-emergence herbicide. On fine-textured soils, only partial control can be expected.

\*\*Control may be improved by following these suggested procedures:

1. Apply up to the maximum single application rate in Table 1 for your given soil texture and rate limitation based on your soil conservation practices.
2. Thoroughly till moist soil to destroy germinating and emerged weeds. If this product is to be applied preplant incorporated, this tillage may be used to incorporate this product if uniform 2-inch incorporation is achieved as recommended under **Application Procedures**.
3. Plant crop into moist soil **immediately after tillage**. If this product is to be used preemergence, apply at planting or immediately after planting.
4. If available, **sprinkler irrigate** within 2 days after application. Apply 1/2 to 1 inch of water. Use lower water volume (1/2 inch) on coarse-textured soils and higher volume (1 inch) on fine textured soils.
5. If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds emerge.

### APPLICATION PROCEDURES

#### Early Preplant

If you apply this product early preplant, use the appropriate rate from Table 1.

Soil Texture	Single Application	Split Application*	
		30 to 40 Days Pre-planting	At Planting
<b>COARSE</b> Sand, loamy sand, sandy loam	2.1 qts/A	DO NOT APPLY	
<b>MEDIUM</b> Loam, silt loam, silt	A. 2.1 qts/A	1.4 qts/A	0.7 qt/A
	B. 2.1 to 2.6 qts/A	1.4 qts/A to 1.75 qts/A	0.7 qt/A to 0.9 qt/A
<b>FINE</b> Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	A. 2.1 qts/A	1.4 qts/A	0.7 qt/A
	B. 2.6 qts/A	1.75 qts/A	0.9 qt/A

\* Split applications can be made less than 30 days before planting if desired.

- A. Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank mix partner or an application of a postemergence herbicide may be needed.

**B.** Do not exceed this rate on soils that are not highly erodible or on highly erodible soils if at least 30% of the soil is covered with plant residue.

Applications made less than 30 days prior to planting may be as either a split or single treatment. Use the lower rate for light expected weed infestations and the higher rate for heavy expected weed infestations. On *coarse-textured soils*, apply 2.1 quarts per acre not more than 2 weeks prior to planting. The above procedure may be followed if atrazine or metolachlor or simazine is used in tank mixtures with this product. Substitute a fluid fertilizer for some or all of the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, paraquat or glyphosate). Observe directions for use, precautions, and restrictions on the label of the contact herbicide.

Use on *medium- and fine-textured soils* with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY.

On *medium- and fine-textured soils* with minimum- or no-tillage systems in DE, MD, MI, NY, OH, PA, VA, and WV, early preplant applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., atrazine, primisulfuron-methyl (Beacon®), dicamba (Rifle®), bentazone (Basagran®), bromoxynil (Brominal® or Broclean®), primisulfuron-methyl + prosulfuron (Exceed®), atrazine + dicamba (Rifle® Plus), or 2,4-D. If the postemergence treatment includes the herbicide used early preplant, do not exceed the labeled rate for corn on a given soil texture. Observe all directions for use, precautions, and limitations on the label of the postemergent herbicide.

This product may be used according to the above directions to control winter wheat planted as a cover crop in IN, KY, and OH, in addition to providing residual weed control. The wheat must be less than 6 inches tall (preferably still in a dormant or semi-dormant state coming out of winter) at the time of application. Depending on rainfall, 10 to 20 days may be required to completely kill the wheat. In the event that adequate rainfall does not occur, control of the winter wheat may be unsatisfactory and the application of a contact herbicide (i.e., paraquat or glyphosate) may be required before planting the crop.

On *medium- and fine-textured soils* following final seedbed preparation in the Blacklands and Gulf Coast areas of TX, an early preplant application of this product at 1.6 to 1.9 quarts per acre may be made 30 to 45 days before planting. Grass suppression of 2 to 3 weeks after planting can be expected as a result of this application. Do not incorporate or disturb the soil before planting, and avoid moving the soil during the planting operation. A follow-up application of metolachlor may be needed

in fields with a history of heavy grass pressure. Apply after planting, but before corn and grass weeds emerge.

**Notes:** (1) If a follow-up application of metolachlor is needed, do not exceed a total of 1.6 pounds active ingredient of metolachlor per acre, including the preplant application of this product on *medium- or fine-textured soils*. On *fine-textured soils* with more than 3% organic matter, do not exceed 1.9 pounds active ingredient of metolachlor.

[To determine the total pounds active ingredient of metolachlor per acre, use the following 2-step method:

- A. Determine the pounds of metolachlor applied as this product (1 qt = 0.6 lb ai of metolachlor); then,
- B. If metolachlor is to be used, add the pounds active ingredient to be applied in these products to the pounds in Step A above.]

(2) To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

**Preplant Surface, Preplant Incorporated, or Preemergence**

If you apply this product preplant surface, preplant incorporated, or preemergence, use the appropriate rate from Table 2.

**Preplant Surface:** Apply uniformly to the soil surface within 14 days before planting. Where applications are made to coarse soils more than 7 days before planting, use the rates in Table 1.

**Preplant Incorporated:** Apply to the soil and incorporate into the top 2 inches of the soil within 14 days before planting, using a finishing disk, finishing harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use the preplant incorporated method if furrow irrigation is used or when a period of dry weather after application is expected. If crop is to be planted on beds, apply and incorporate after bed formation.

**Preemergence:** Apply to the soil surface at planting (behind the planter) or after planting, but before weeds or crop emerge.

Table 2: Preplant Surface, Preplant Incorporated, or Preemergence Rates of Application		
Soil Texture	Broadcast Rate Per Acre	
	Less Than 3% Organic Matter	3% Organic Matter or Greater
<b>COARSE</b> Sand, loamy sand, sandy loam	1.3 qts	1.6 qts
<b>MEDIUM</b> Loam, silt loam, silt	1.6 qts	2.1 qts
<b>FINE</b> Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.1 qts	A. 2.1 qts
		B. 2.1 to 2.6 qts*
Muck or peat soils (more than 20% organic matter)	DO NOT USE	

\*For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter: Apply 2.6 quarts of this product per acre.

- A. Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank mix partner or an application of a postemergence herbicide may be needed.
- B. Do not exceed this rate on soils that are not highly erodible or on highly erodible soils if at least 30% of the soil is covered with plant residue.

**Notes:** (1) In the event of escape of annual weeds following an early preplant, preplant surface, preplant incorporated, or preemergence treatment of this product applied alone or in combination, follow with a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., atrazine, primisulfuron-methyl (Beacon), nicosulfuron (Accent®), dicamba (Rifle), bentazone (Basagran), bromoxynil (Brominal or Broclean), primisulfuron-methyl + prosulfuron (Exceed), atrazine + dicamba (Rifle Plus), or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the labeled rate for corn on a given soil texture. (2) Bromoxynil may be applied postemergence alone or in tank mix combination with atrazine. Do not exceed 1.2 pounds active ingredient per acre of atrazine in tank mix combination with bromoxynil postemergence. Refer to the atrazine, and bromoxynil labels for specific rates and precautions. (3) If atrazine or another product containing atrazine is used postemergence following application of this product, do not exceed a total of 2.5 pounds active ingredient per acre of atrazine per year. (4) Substitute a fluid fertilizer for some or all of the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present, add a contact herbicide as noted in the **Combinations** section of this label.

**Postemergence Broadcast**

If you apply this product early postemergence, use the appropriate rate from Table 3. Apply postemergence treatments of this product using water only as the carrier. Apply this treatment before grass and broadleaf weeds pass the 2-leaf stage and before corn exceeds 5 inches in height. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control. Occasional corn leaf burn may result, but this should not affect later growth or yield. Do not apply postemergence in fluid fertilizer, or severe crop injury may occur.

**Note:** To avoid possible illegal residues, do not graze or feed forage from treated areas for 60 days following application.

<b>Table 3: Postemergence Broadcast Rates of Application</b>	
<b>Soil Texture</b>	<b>Broadcast Rate Per Acre</b>
<b>COARSE</b> Sand, loamy sand, sandy loam	1.6 qts
<b>MEDIUM</b> Loam, silt loam, silt	2.1 qts
<b>FINE</b> Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.1 to 2.6 qts*

\*For better residual control of cocklebur, velvetleaf, and yellow nutsedge on *fine-textured soils* above 3% organic matter, apply 2.6 quarts of this product per acre.

**Notes:** (1) If no atrazine was applied prior to corn emergence, apply a maximum of 2 pounds active ingredient per acre broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds active ingredient per acre per calendar year. (2) If atrazine or atrazine plus metolachlor tank mixtures have been applied early preplant, preplant surface, preplant incorporated, or pre-emergence, limit this product's early post application not to exceed a total of 2.5 pounds of active ingredient in atrazine or 3.75 pounds of the active ingredient metolachlor per acre, or illegal residues may result.

**Postemergence-Directed**

This product may be applied at 1.3 to 2.6 quarts per acre in a minimum of 15 gallons of water as a postemergence directed treatment to corn to extend control of weeds. Apply using the appropriate rate from Table 4.

For best results, apply this product to weed-free soil following use of a preplant surface, preplant incorporated, or preemergence herbicide, or following a lay-by cultivation. If weeds have emerged at the time of this product's application, apply before grass and broadleaf weeds exceed the 2-leaf stage. Application to weeds larger than the 2-leaf stage will generally give unsatisfactory control. Apply to corn not exceeding 12 inches in height. Minimize contact with corn leaves. Do not apply postemergence in fluid fertilizer, or severe crop injury may occur.

**Note:** To avoid possible illegal residues, do not graze or feed forage from treated areas for 60 days following application.

<b>Table 4: Postemergence-Directed Rates of Application</b>	
<b>Soil Texture</b>	<b>Broadcast Rate Per Acre</b>
<b>COARSE</b> Sand, loamy sand, sandy loam	1.3 qts
<b>MEDIUM</b> Loam, silt loam, silt	2.1 qts
<b>FINE</b> Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.1 to 2.6 qts*

\* For better residual control of cocklebur, velvetleaf, and yellow nutsedge on *fine-textured soils* above 3% organic matter, apply 2.6 quarts of this product per acre.

**Notes:** (1) If no atrazine was applied prior to corn emergence, apply a maximum of 2.0 pounds active ingredient per acre broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds active ingredient per acre per calendar year. (2) If atrazine plus metolachlor tank mixtures have been applied preplant surface, preplant incorporated, or preemergence, limit this product's post-directed application not to exceed a total of 2.5 pounds of the active ingredient atrazine or 3.75 pounds of the active ingredient metolachlor per acre on a corn crop, or illegal residues may result.

**COMBINATIONS**

Always follow label instructions for tank mix products when mixing with this product:

When tank-mixing or sequentially applying atrazine and/or simazine or products containing atrazine and/or simazine to corn, do not exceed a combined application rate of 2.0 pounds combined active ingredient per acre for any single application, and the total pounds of atrazine and/or simazine applied (lbs/A) must not exceed 2.5 pounds combined active ingredient per year.

\* When tank mixing this product with atrazine formulations, refer to the Rate Limitations section of this label. Do not exceed the following:

On highly erodible land with less than 30% plant residue cover prior to crop emergence	1.6 lbs ai of atrazine
On other land prior to crop emergence	2.0 lbs ai of atrazine
Postemergence applications only – any land	2.0 lbs ai of atrazine
Preemergence + postemergence applications	2.5 lbs ai of atrazine

## 1. Tank Mixture with Atrazine, Metolachlor (Stalwart C), Simazine (Sim-Trol), or Isoxaflutole (Balance) - Conventional Tillage

**Note:** Check the compatibility of this product's tank mixtures with isoxaflutole before mixing in spray tank by using the procedure described under Application in Water or Fluid Fertilizers.

**Atrazine (4L or 90DF):** Add up to 1.0 quart of Loveland Atrazine 4L (1.1 pounds of 90DF) per acre to the rate of this product specified in Table 3 in the southeastern U.S. where high rainfall can shorten the duration of control of broadleaf weeds, and in all areas where heavy infestations of cocklebur, morningglory, velvetleaf, or other broadleaf weeds claimed are expected.

**Metolachlor Products:** Add up to 0.33 pint of Stalwart C per acre (0.32 pound active ingredient metolachlor) to the rate of this product specified in Table 3 when heavy infestations of yellow nutsedge, sandbur, or seedling johnsongrass are expected.

**Simazine (4L or 90DF):** Add up to 1.0 quart of Sim-Trol 4L (1.1 pounds of Sim-Trol 90DF) per acre to the rate of this product specified in Table 3 where heavy infestations of crabgrass or fall panicum are expected or additional control of certain broadleaves is desired.

**Isoxaflutole (Balance) (Field Corn Only):** The tank mixture of this product + isoxaflutole provides control of weeds listed on this product's label, certain weed biotypes resistant to ALS-inhibitor herbicides and to triazine herbicides, velvetleaf, and others on the respective product labels. Isoxaflutole will contribute to the control of problem grass and other broadleaf species on its label. Application may be preplant (surface-applied up to 14 days before planting), preplant incorporated, or preemergence in conventional tillage, conservation tillage, and no-till systems. Refer to **Table 1: Early Preplant** for the early preplant application rate (8 to 14 days before planting) or refer to **Table 2** for the appropriate rate for preplant (surface-applied 0 to 7 days before planting), preplant incorporated, or preemergence application. Refer to the **Application Procedures and Tank Mix Directions** on the isoxaflutole label, but to reduce the potential for injury from isoxaflutole contact with corn, use 1.0 ounce per acre of isoxaflutole on *coarse-textured soils* and 1.0 to 1.5 ounce per acre on *medium- and fine-textured soils* in conventional, conservation, and no-tillage systems. For early preplant applications 8 to 14 days before planting, add 0.5 ounce per acre of isoxaflutole to the rates of isoxaflutole described above.

Observe all applicable directions, precautions, and limitations on this product and isoxaflutole labels when applying these products in tank mix combination in states where isoxaflutole is registered. Where difficult species and/or severe weed populations are expected, use the maximum rates of this product and isoxaflutole where rate ranges are listed for the tank mixture.



**2. Tank Mixture of This Product Alone or This Product + Atrazine, Isoxaflutole (Balance), Metolachlor (Stalwart C), or Simazine (Sim-Trol), with Paraquat (Gramoxone Inteon), 2,4-D + Glyphosate (Landmaster BW), or Glyphosate (Makaze) for Minimum-Tillage or No-Tillage Systems**

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides paraquat, 2,4-D + glyphosate, or glyphosate should be tank mixed with this product alone or with this product + atrazine, isoxaflutole, metolachlor, or simazine. When used as directed, the paraquat portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds. 2,4-D + glyphosate or glyphosate combinations will control emerged annual and perennial weeds when applied as directed on its label. This product's portion of the tank mixture provides preemergence control of the weeds listed on this label in the This Product Alone section for corn. The addition of atrazine, isoxaflutole, metolachlor, or simazine offers the advantage indicated for each under Tank Mixture with Atrazine, Metolachlor (Stalwart C), Simazine (Sim-Trol), or Isoxaflutole (Balance) Conventional Tillage section.

**Application:** Apply before, during, or after planting, but before corn emerges, at the appropriate rate in Table 7. Up to 1.0 quart of Loveland Atrazine 4L (1.1 pounds of 90DF), or 1.0 to 2.0 ounces of isoxaflutole (refer to **Tank Mixture with Balance** for specific rate), or 0.33 pint of metolachlor (Stalwart C), or 1.0 quart of Sim-Trol 4L (1.1 pounds of Sim-Trol 90DF) per acre may be added to the rate of this product specified in Table 7. Add paraquat, 2,4-D + glyphosate, or glyphosate at labeled rates. **Tank mixtures with isoxaflutole (Balance) can only be used on field corn.**

Apply in 20.0 to 60.0 gallons of water per acre with conventional spray equipment.

**3. Tank Mixture of This Product Alone or This Product + Atrazine, or Isoxaflutole (Balance), with 2,4-D or 2,4-D + Dicamba (Rifle) for Minimum-Tillage or No-Tillage Systems**

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, this product may be applied in combination with atrazine or isoxaflutole. When used as directed, this product's portion of the tank mixture provides preemergence control of the weeds listed on this label in the This Product Alone section for corn. The addition of atrazine or isoxaflutole offers the advantage indicated for each under **Tank Mixture with Atrazine, Metolachlor, Simazine, or Isoxaflutole (Balance) - Conventional Tillage** section.

**Application:** Apply this product before, during, or after planting, but before corn emerges, at the appropriate rate in Table 5. Up to 1.0 quart of Sipcam Atrazine 4L (1.1 pounds of 90DF) or 1.0 to 2.0 ounces of isoxaflutole (refer to **Tank Mixture with Isoxaflutole (Balance)** for specific rate), per acre may be added to the rate of this product specified in Table 5.

Where heavy crop residues exist, add an appropriately labeled 2,4-D amine or low volatile ester to the spray tank last and apply in a minimum of 25.0 gallons of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds, and therefore are recommended instead of water. Add X-77® surfactant at 1.0 to 2.0 quarts per 100 gallons of diluted spray, or another surfactant cleared for use on growing crops at its recommended rate. Apply before weeds exceed 3 inches in height. If alfalfa is present, add dicamba (Rifle) to the spray mixture at 0.33 to 0.5 pint per acre and apply before alfalfa exceeds 6 inches in height.

For fields with existing sod grasses (e.g., bromegrass, orchardgrass, rye, or timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add paraquat (Gramoxone Inteon) at the rate of 2.5 pints per acre in place of, or in addition to, 2,4-D, as indicated above. Do not apply paraquat in suspension-type liquid fertilizer (using clay suspending agents), as the activity of paraquat will be reduced. Observe all directions for use, precautions, and limitations on the respective product labels when applying these products in tank mix combination.

**Table 5: This Product for Minimum-Tillage or No-Tillage Corn**

Soil Texture	Broadcast Rate Per Acre
<b>COARSE</b> Sand, loamy sand, sandy loam	1.6 qts
<b>MEDIUM</b> Loam, silt loam, silt	2.1 qts
<b>FINE</b> Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	A. 2.1 qts B. 2.1 to 2.6 qts*
Muck or peat soils	DO NOT USE

\*For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter: Apply 2.6 quarts of this product per acre.

- A. Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank mix partner or an application of a postemergence herbicide may be needed.
- B. Use this rate for all other applications.

**4. Tank Mixture with Linuron (Lorox) for Control of Lambsquarters and Pigweed**

For prolonged control of lambsquarters and pigweed in DE, MD, NJ, NY, PA, VA, and WV, this product may be applied preemergence in tank mix combination with linuron. Apply this product according to the rates in Table 2 and linuron according to the following rates.

Soil Texture	Broadcast Rate Per Acre
Sandy loam (1 to 3% organic matter)	0.67 lb Lorox*
Sandy loam (3 to 6% organic matter)	1.0 lb Lorox*
Medium- and fine-textured soils (1 to 6% organic matter)	1.0 lb Lorox*

\*or equivalent linuron formulation, one pint of Lorox L equals 1.0 pound of Lorox DF.

Follow instructions and precautions on this product and linuron labels when tank mixing these products.

**Rotational Crops:** Follow the crop rotation instructions in the This Product Alone section for corn.

**5. Tank Mixture with Mesotrione (Callisto®)**

For preemergence control of weeds in corn, this product may be applied in combination with mesotrione. Apply this product according to the rates in **Table 2** and mesotrione at a rate of 5.0 6.0 fluid ounces per acre. Observe all directions for use, precautions, and limitations on the respective product labels when applying these products in tank mix combination.

**6. Tank Mixtures For Postemergence Salvage Weed Control in Field Corn Only**

For postemergence control of weeds in specific types of field corn, this product's combinations listed below may be used. Full season weed control from early preplant, preplant incorporated, or preemergence treatments can lead to maximum yield potential under competition-free conditions. However, if control of emerged weeds is needed, a postemergence program listed below can be applied to provide residual control for the remainder of the season.

**Notes:** (1) Follow all label directions, instructions, precautions, and limitations for each product used. (2) Do not use fluid fertilizer with these mixtures or corn injury may occur. (3) For each tank mixture with this product, apply only to the specific field corn type specified on the tank mix product label. (4) In-row weed control may be reduced because of lack of coverage when applied to corn over 4 inches tall.

- a. **This product + Liberty Herbicide: Postemergence Use in LibertyLink® Corn or Corn Warranted by Bayer CropScience as Being Tolerant to Liberty Herbicide -**  
The tank mixture of this product + Liberty Herbicide can be applied postemergence to weeds and corn from seed designated as LibertyLink or corn warranted by Bayer CropScience as being tolerant to Liberty Herbicide. Liberty provides postemergence control of a broad spectrum of grass and broadleaf weeds and this product provides residual control of grasses and broadleaf weeds listed in the label section **This Product Applied Alone - Weeds Controlled**. For the proper rate of this product applied postemergence, refer to **Table 3** and use the minimum rate per soil texture for season-long residual control. Refer to the Liberty label for the Liberty

postemergence application rate according to weed species and their maximum height at the time of postemergence application. Where multiple weed species are present, use the highest Liberty rate specified to control the species and growth stages present.

Follow all applicable use directions, limitations, precautions, and information regarding application to corn on this product and Liberty Herbicide labels.

- b. **This product + Glyphosate (Makaze) for Postemergence Application to Corn with the Roundup Ready® Gene** - The tank mixture of this product + Makaze can be applied postemergence to weeds and to corn designated as containing the Roundup Ready Gene. Application may be applied postemergence to Roundup Ready corn up to 12 inches in height. This mixture will provide postemergence control of weed species on the Makaze label and also residual control of weed species on this product's label. Use the minimum of this product's rate postemergence with Makaze in Roundup Ready corn as specified in **Table 3** of this label according to soil texture. Refer to the **Supplemental Labeling of Makaze for Postemergence Application to Corn with the Roundup Ready Gene** and to each product label and follow all appropriate use directions, application procedures, precautions, and limitations. Apply 24 to 32 fluid ounces per acre of Makaze for control of labeled broadleaf and grass weeds. Refer to the Makaze label for directions for control of problem species.

Follow all applicable use directions, limitations, precautions, and information regarding application to corn on this product and Makaze labels, and on the **Supplemental Labeling of Makaze for Postemergence Application to Corn with the Roundup Ready Gene**. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

- c. **This product + Exceed**: Apply 1.33 to 1.75 quarts per acre of this product + 1.0 ounce per acre of Exceed to corn that is 4 to 12 inches tall. The application may be broadcast, semi-directed, or directed. This product's rate is based on soil texture, with 1.33 quarts per acre on *coarse*, and 1.75 quarts per acre on *medium* and *fine* soils. Add a nonionic surfactant at 0.25% v / v.

This mixture is effective for control of many annual broadleaf weeds and some grasses. A few instances of broadleaf weed control antagonism have been observed with this combination. Control of certain annual grasses can be improved with the addition of Accent.

- d. **This product + Exceed + Accent**: Apply the same rates of this product and Exceed as mentioned above. Add Accent at 0.33 ounce per acre for more effective control of certain annual grasses. Apply to field corn between 4 and 12 inches. Add a nonionic surfactant at 0.25% v / v. The use of fertilizer or crop oil concentrate with this combination may cause injury to corn.

e. **This product + Spirit®** - Spirit herbicide at 1.0 ounce per acre A can be substituted in place of Exceed in the above combinations in field corn only.

**Notes:** Do not use fertilizer or crop oil concentrate with these mixtures or injury to field corn may occur. The combination of this product with other products for postemergence weed control in corn is generally not recommended. **These combinations may cause injury and/or weed control concerns that would not exist when the products are used separately.** A certain inherent risk is involved with the various combinations of these products used postemergence in corn. [It should be noted that early preplant, preplant incorporated, or preemergence control of these weeds would usually provide more timely weed control resulting in higher yields than postemergence treatments.]

**Mixing Order**

Add these products (Tank Mixtures c, d, and e) to the tank mix in the following order:

1. Products in water-soluble bags should be added first.
2. This product.
3. Additives.

*Precautions: (1) Follow all label instructions, precautions, and rotational restrictions for individual products when making these applications to field corn. When this product is applied after June 10, crop injury may occur the following year if you rotate to crops other than corn or sorghum. (2) In-row weed control may be reduced because of lack of coverage when applied to corn over 4 inches tall.*

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** This product may be stored at temperatures down to -30 °F. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office. Open dumping is prohibited.

**CONTAINER HANDLING:**

**Nonrefillable container.** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC)

at [www.acrecycle.org](http://www.acrecycle.org). If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**For packages up to 5 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 56 gallons:** To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. 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 more times.

**For refillable containers:** Refill this container with this product only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. 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 more times. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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

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