

ACCEPTED VIA NOTIFICATION LABEL NOT REVIEWED

March 16, 2017

New York State Department of Environmental Conservation Division of Materials Management Pesticide Product Registration

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GROUP 9 HERBICIDE



AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

ACTIVE INGREDIENT

*Glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt	41.0%
OTHER INGREDIENTS:	59.0%
TOTAL 1	100.0%

*Contains 480 grams per liter or 4.0 pounds per U.S. gallon of the active ingredient, glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per liter or 3.0 pounds per U.S. gallon of the acid. glyphosate.

Licensed for Roundup Ready® alfalfa, cotton, corn, canola, Flex cotton, sugarbeets and sovbeans.

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA REG. NO. 34704-890

051215 V1D 08016

FORMULATED FOR LOVELAND PRODUCTS. INC.®. P.O. BOX 1286. GREELEY. COLORADO 80632-1286

	FIRST AID		
If in eyes:	Hold eye open and rinse slowly and gently with water for 15 to 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:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.		
Have the product container or label with you when calling a poison control			

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL:

1-866-944-8565.

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1.0 INGREDIENTS

ACTIVE INGREDIENT

*Glyphosate, N-(phosphonomethyl)gl	lycine, in the form	of its
isopropylamine salt		41.0%
OTHER INGREDIENTS:		59.0%
	TOTAL	100 0%

2.0 EMERGENCY PHONE NUMBERS

24-Hour Emergency Phone: 1-800-424-9300 **Medical Emergencies:** 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

3.0 PRECAUTIONARY STATEMENTS 3.1 HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist more than 24 hours.

3.2 PERSONAL PROTECTIVE EQUIPMENT: (PPE) Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- . Shoes plus socks,
- · Waterproof gloves.

Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], 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.

3.3 ENVIRONMENTAL HAZARDS

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 cleaning equipment or disposing of equipment washwaters.

3.4 PHYSICAL OR CHEMICAL HAZARDS

Spray solutions of this product must be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE, OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch. lighted cigarette or other ignition source.

Read the entire label before using this product. Use only according to label instructions.

Read the Conditions of Sale and Limitation of Liability, Section 18.0, at the end of the label before buying or using. If terms are unacceptable, return at once unopened.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a 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 requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

3.5 AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with Worker Protection Standard (WPS), 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 (REI). 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 4 hours.

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
- · Waterproof gloves
- Shoes plus socks

3.6 NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep people and pets off treated areas until spray solution has dried.

3.7 Seed Potato Precaution

Potatoes grown for seed are very sensitive to glyphosate at extremely low concentrations. Exposure of the seed potato crop can cause germination failure or deformities. Daughter tuber damage may occur at levels where mother crop symptoms are not visible. Multiple sprouting from eyes, weak and distorted stems, little potato syndrome, cauliflower sprouts, root distortions, excessive root growth, suppressed tuber initiation and bulking, failure or delay in opening of eyes, and rotting of tubers in the field or store can result. Subsequent plantings of seed pieces from the exposed mother crop can result in delayed or no emergence or produce lower than normal vields.

Glyphosate can contaminate seed potato crops through carryover residue in application equipment or drift from applying glyphosate to nearby crops.

Always follow good wash-out procedures using detergents or other suitable cleaning agents to remove all residual traces of glyphosate from application equipment that may be used to apply other products to seed potato crops.

To avoid contamination from spray drift follow the directions and precautions in the Spray Drift Management, Section 7.1.

4.0 USE INFORMATION

Product Description: This product is a post-emergent, systemic herbicide with no soil residual activity. It is generally non-selective and gives broad-spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble liquid. It may be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water or other carriers according to label instructions.

Ammonium sulfate, drift control additives, or dyes and colorants may be used. See Mixing. Section 6.0. for instructions.

Time to Symptoms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of aboveground growth and deterioration of underground plant parts.

Stage of Weeds: Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the Annual Weeds, Perennial Weeds, and Woody Brush and Trees rate tables, Sections 14.0, 15.0 and 16.0, for use directions for specific weeds.

Always use the higher rate of this product per acre within the labeled rate range when weed growth is heavy or dense or weeds are growing in an undisturbed (non-cultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

Cultural Considerations: Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Rainfastness: Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate control.

Spray Coverage: For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Mode of Action: The active ingredient in this product inhibits an enzyme found only in plants that is essential to formation of specific amino acids.

No Soil Activity: Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow.

Biological Degradation: Degradation of this product is primarily a biological process carried out by soil microbes.

Tank Mixing: This product does not provide residual weed control. For subsequent residual weed control follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this label. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

Annual Maximum Use Rate: Except as otherwise specified in a food crop section of this label, the combined total of all treatments must not exceed 8.0 quarts of this product per acre per year. For non-food/non-crop uses, the combined total of all treatments must not exceed 10.6 quarts of this product per acre per year. The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed stated maximum use rate.

Note: Use of this product in any manner 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.

5.0 WEED RESISTANCE MANAGEMENT

Glyphosate, the active ingredient in this product is a Group 9 herbicide. Target site resistance to Group 9 herbicides is rare. Any weed population may contain plants naturally resistant to Group 9 herbicides. Weed species resistant to Group 9 herbicides may be effectively managed utilizing another herbicide from a different Group or using other cultural practices or mechanical practices.

5.1 Weed Management Directions

To minimize the occurrence of glyphosate resistant biotypes, observe the following weed management recommendations:

- Scout your fields before and after herbicide applications.
- Start with a clean field, use either a burndown herbicide application or tillage.
 Control weeds early when they are relatively small.
- Add other herbicides (e.g. a selective and/or a residual herbicide) and cultural practices (e.g. tillage or crop rotation) where appropriate.
- One method of adding other herbicides into a continuous Roundup Ready® system is to rotate to other Roundup Ready crops.
- Utilize the labeled rate for the most difficult-to-control weed in your field.
 Avoid tank mixtures with other herbicides that reduce this product's efficacy (through antagonism), or tank mixture recommendations that encourage application rates of this product below the labeled rate.
- · Control weed escapes and prevent weeds from setting seeds.
- Clean equipment before moving from field to field to minimize the spread of weed seed or plant parts.
- · Use new commercial seed that is as free of weed seed as possible.
- Report any incidence of repeated non performance of this product on a particular weed to your Loveland Products, Inc. representative, local retailer, or county extension agent.

5.2 Management Directions for Glyphosate Resistance Biotypes

Note: Appropriate testing is critical in order to determine if a weed is resistant to glyphosate. Contact your Loveland Products, Inc. representative to determine if resistance has been confirmed to any particular weed biotype in your area, or visit on the internet www.weedscience.org. For more information see the Annual Weeds and Perennial Weeds tables, Sections 14.0 and 15.0.

Control directions for biotypes confirmed as resistant to glyphosate are made available on separately published supplemental labeling or fact sheets for this product and can be obtained from your local retailer or Loveland Products, Inc. representative.

Since the occurrence of new glyphosate-resistant weeds cannot be determined until after product use and scientific confirmation, Loveland Products, Inc. is not responsible for any losses that may result from the failure of this product to control glyphosate resistant weed biotypes.

The following good agronomic practices are recommended to reduce the spread of confirmed glyphosate-resistant biotypes:

- If a naturally occurring resistant biotype is present in your field, this product should be tank mixed or applied sequentially with an appropriately labeled herbicide with a different mode of action to achieve control.
- Cultural and mechanical control practices (e.g., crop rotation or tillage) may also be used as appropriate.
- One method for adding other herbicides into a continuous Roundup Ready system is to rotate to other Roundup Ready crops.
- Scout treated fields after herbicide applications and control escaping weeds including resistant biotypes before they set seed.
- Thoroughly clean equipment before leaving fields known to contain resistant biotypes.

6.0 MIXING

Clean sprayer parts immediately after using this product by thoroughly flushing with water.

NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS VISIBLY MUDDY WATER OR WATER FROM PONDS AND DITCHES THAT IS NOT CLEAR.

6.1 Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the labeled amount of this product near the end of the filling process and mix well. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or de-foaming agent.

6.2 Tank Mixing Procedure

Mix labeled tank mixtures of this product with water as follows:

- 1. Place a 20- to 35-mesh screen or wetting basket over filling port.
- Through the screen, fill the spray tank 1/2 full with water and start agitation.

- 3. If ammonium sulfate is used, add it slowly through the screen into the tank. Continue agitation. Ensure that dry ammonium sulfate is completely dissolved in the sorav tank before adding other products.
- If a wettable powder is used, make a slurry with the water carrier and add it SLOWLY through the screen into the tank. Continue agitation.
- If a flowable formulation is used, premix 1 part flowable with 1 part water. Add diluted mixture SLOWLY through the screen into the tank. Continue anitation.
- If an emulsifiable concentrate formulation is used, premix 1 part emulsifiable concentrate with 2 parts water. Add diluted mixture slowly through the screen into the tank. Continue aditation.
- Continue filling the spray tank with water and add the required amount of this product near the end of the filling process.
- Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive and water soluble liquid.

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

Keep by-pass line on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

Refer to Tank Mixing, Section 4.0, for additional precautions,

6.3 Mixing for Hand-Held Sprayers

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

	lution

	Amount Mad Dog Plus®					
Desired Volume	0.5%	1.0%	1.5%	2.0%	5.0%	10.0%
1.0 gal	0.6 oz	1.3 oz	2.0 oz	2.6 oz	6.5 oz	13.0 oz
25.0 gal	1.0 pt	1.0 qt	1.5 qt	2.0 qt	5.0 qt	10.0 qt
100 gal	2.0 qt	1.0 gal	1.5 gal	2.0 gal	5.0 gal	10.0 gal
2.0 tablespoons = 1.0 fluid ounce						

For use in knapsack sprayers, it is suggested that the labeled amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

6.4 Surfactants

Optional Statements

No additional surfactant in the spray solution is needed or recommended. This includes additives containing surfactants, buffering agents or pH adjusting agents when Mad Dog Plus is the only pesticide used unless otherwise directed.

Additional surfactants labeled for use with herbicides may be used. Do not reduce application rates of this herbicide when adding surfactants. Read and carefully observe cautionary statements and other information appearing on the additives label.

Enhanced product performance may be obtained with use of Loveland Products, Inc. Leci-Tech® adjuvants. Consult with your local Loveland Products, Inc. representative for advice on specific product selection.

6.5 Ammonium Sulfate

The addition of 1.0 to 2.0% dry ammonium sulfate by weight or 8.5 to 17.0 pounds per 100 gallons of water may increase the performance of this product particularly when tank mixed with certain residual herbicides on annual and perennial weeds. The equivalent rate of ammonium sulfate in a liquid formulation may also be used.

Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

Note: When using ammonium sulfate, apply this product at rates specified in this label. Lower rates will result in reduced performance.

6.6 Colorants or Dves

Agriculturally approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions. Use colorants or dyes according to the manufacturer's specifications.

6.7 Drift Control Additives

Drift control additives may be used with all equipment types, except wiper applicators, sponge bars and CDA equipment. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Enhanced product performance may be obtained with use of Loveland Products, Inc. Leci-Tech adjuvants. Consult with your local Loveland Products, Inc. representative for advice on specific product selection.

 $\mbox{\it Note:}$ The use of drift control additives can affect spray coverage which may result in reduced performance.

7.0 APPLICATION EQUIPMENT AND TECHNIQUES

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

This product may be applied with the following application equipment:

- . Aerial Fixed wing and helicopter.
- Ground Broadcast Spray Boom or boomless systems, pull-type sprayer, floaters, pick-up sprayers, spray coupes and other ground broadcast equipment.
- Hand-held or High-volume Spray Equipment Knapsack and backpack sprayers, pump-up pressure sprayers, handguns, handwands, mistblowers*, lances and other hand-held and motorized spray equipment used to direct the spray onto weed foliage.
- Selective Equipment Shielded and hooded sprayers, wiper applicators and sponge bars.
- . Injection Systems Aerial or ground injection sprayers.
- Controlled Droplet Applicator (CDA) Hand-held or boom-mounted applicators which produce a spray consisting of a narrow range of droplet sizes.
- *This product is not registered in Čalifornia or Arizona for use in mistblowers. APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRAT-ED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.

7.1 Drift Precaution

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation. Extreme care must be exercised to avoid contact of spray with foliage, green stems or fruit of desirable crops, plants, trees or other desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was NOT intended. Examples of, but not limited to, crop types that may be sensitive to glyphosate exposure include rice, small grain cereals, peanuts, potatoes, vegetables, fruits and ornamentals.

Applicators should be aware of any potentially sensitive crops near application zone before making application. To prevent injury to adjacent desirable vegetation, appropriate buffer zones must be maintained.

- 1. Do not apply within 100 feet of any desirable vegetation or crops.
- If wind up to 5 miles per hour is blowing toward desirable vegetation or crops, do not apply within 500 feet upwind of the desirable vegetation or crops.
- Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crops will likely require buffer zones in excess of 500 feet.

If unsure of appropriate buffer zone, contact your local Extension Agent for advice.

7.2 Aerial Equipment

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL. FOR AERIAL APPLICATION IN CALIFORNIA AND ARKANSAS, REFER TO INSTRUCTIONS SPECIFIC TO THOSE STATES.

Use the specified rates of this herbicide in 3.0 to 15.0 gallons of water per acre unless otherwise specified on not exceed 1.0 quart per acre. Aerial applications of this product may be made in annual cropping conventional tillage systems, fallow and reduced tillage systems and preharvest applications. Refer to the individual use area sections of this label for labeled volumes and application rates.

Ensure uniform application - To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Aerial 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 is responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid offtarget 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.
- 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.

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 sections of this label).

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 manufacturers specified 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 target 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 must increase with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Do not apply 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, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Do not apply directly to any body of water.

Aircraft Maintenance - Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE. The maintenance of an organic coating (paint), which meets aerospace specification MIL-C-38413 may prevent corrosion.

FOR AERIAL APPLICATION IN CALIFORNIA ONLY

Aerial applications of this product are allowed in the following situations:

- In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops.
- 2. In alfalfa and pasture renovation applications.
- 3. Over-the-top applications in Roundup Ready corn and cotton.
- 4. Preharvest in alfalfa, corn, cotton, wheat, Roundup Ready corn and Roundup Ready cotton.

Do not plant subsequent crops other than those listed in the label booklet for 30 days following application.

Do not apply tank mixes with dicamba products by air in California.

When tank mixing this product with 2,4-D for aerial applications, only 2,4-D amine formulations may be used. This tank mixture may be used for fallow and reduced tillage systems and alfalfa and pasture renovation applications only.

DO NOT EXCEED A MAXIMUM RATE OF 2.0 QUARTS PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN FALLOW AND REDUCED TILLAGE SYSTEMS AND ALFALFA AND PASTURE RENOVATION APPLICATIONS.

DO NOT EXCEED A MAXIMUM RATE OF 1.0 QUART PER ACRE OF THIS PROD-UCT WHEN MAKING APPLICATIONS BY AIR IN ALFALFA, CORN, COTTON, WHEAT, ROUNDUP READY CORN AND ROUNDUP READY COTTON PRIOR TO HARVEST. THIS RESTRICTION ALSO APPLIES TO OVER-THE-TOP APPLICA-TIONS IN ROUNDUP READY CORN AND COTTON.

Aerial Equipment

Use the labeled rates of this product in 3.0 to 15.0 gallons of water per acre.

Use the following guidelines when aerial applications are made near crops or desirable perennial vegetation after bud break and before total leaf drop, and/or near other desirable vegetation or annual crops.

- 1. Do not apply within 100 feet of all desirable vegetation or crop(s).
- 2. If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s), do not apply within 500 feet of the desirable vegetation or crop(s).
- Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet.
- Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist.

FOR AERIAL APPLICATION IN FRESNO COUNTY CALIFORNIA (From February 15 through March 31 Only)

Applicable Area

The area contained inside the following boundaries within Fresno County, California
North: Fresno County line East: State Highway 99
South: Fresno County line West: Fresno County line

Use Information: Always read and follow the label directions and precautionary statements for all products used in aerial application.

Observe the following directions to minimize off-site movement during aerial application of this product. Minimization of off-site movement is the responsibility of the grower. Pest Control Advisor and aerial applicator.

Written Recommendations: A written recommendation MUST be submitted by or on behalf of the application to the Fresno County Agricultural Commissioner 24 hours prior to the application. This written recommendation MUST state the proximity of surrounding crops and that conditions of each manufacturer's product label and this label have been satisfied.

Aerial Applicator Training and Equipment: Aerial application of this product is limited to pilots who have successfully completed a Fresno County Agricultural Commissioner and California Department of Pesticide Regulation approved training program for aerial application of herbicides. All aircraft must be inspected, critiqued in flight and certified at a Fresno County Agricultural Commissioner approved fly-in. Test and calibrate spray equipment at intervals sufficient to insure that proper rates of herbicides and adjuvants are being applied during commercial use. Applicator must document such calibrations and testing. Demonstration of performance at Fresno County Agricultural Commissioner approved fly-ins constitutes such documentation, or other written records showing calculations and measurements of flight and spray parameters acceptable to the Fresno County Agricultural Commissioner.

Applications at Night: Do not apply this product by air earlier than 30 minutes prior to sunrise and/or later than 30 minutes after sunset without prior permission from the Fresno County Agricultural Commissioner.

Note: For aerial application from April 1 through February 14, refer to the "For Aerial Application in California Only" section of this label.

FOR AERIAL APPLICATION IN ARKANSAS ONLY

AVOID DRIFT. DO NOT APPLY INTO STILL AIR WHERE THERE IS A TEMPERATURE INVERSION LAYER LOW ENOUGH FOR FINE SPRAY PARTICLES TO BECOME SUSPENDED AND MOVE OUTSIDE THE TARGET AREA WHEN THE INVERSION LAYER MOVES. DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION THAT FAVORS DRIFT. DRIFT IS LIKELY TO CAUSE DAMAGE TO ANY VEGETATION CONTACTED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST RE MAINTAINED

Use the specified rate of this product in 3.0 to 15.0 gallons of water per acre. Use sufficient carrier volume and appropriate equipment set up to form droplets large enough to avoid drift potential. Coarse droplets in the 300 to 500 (VMD) micron range are recommended.

Applications should typically be made with the nozzle release point at 8 to 15 feet above the top of the target plants unless a greater height is required for aircraft safety. The distance of the outermost nozzles on the boom must not exceed 75% of the length of the wingspan or rotor. In many cases, reducing this distance to 65% of the length of the wingspan or rotor will improve drift control without affecting the swath width.

Nozzles must always discharge backward parallel with the air stream and never discharge downwards more than 45 degrees on fixed wing aircraft or forward of the prevailing airflow on rotary winged aircraft. Avoid the use of nozzles with wide-anole discharge.

Do not apply this product when wind speeds are in excess of 10 miles per hour.

Do not apply when there is a low-level inversion where fine spray particles could be suspended in still air and move outside the target area when the inversion layer moves. These conditions may occur when wind speeds are less than 2 mph.

Use the following guidelines when applications are made near crops or other desirable vegetation:

- 1. Do not apply within 100 feet of any desirable vegetation or crops.
- 2. If wind up to 5 miles per hour is blowing toward desirable vegetation or crops, do not apply within 500 feet upwind of the desirable vegetation or crops.
- 3. Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crops will likely require buffer zones in excess of 500 feet.

7.3 Ground Broadcast Equipment

Use the specified rates of this product in 3.0 to 40.0 gallons of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases, spray volume should be increased within the labeled range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

7.4 Hand-Held or High-Volume Equipment

Apply to foliage of vegetation to be controlled. For applications made on a sprayto-wet basis, spray coverage must be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only. For labeled rates and timing refer to Annual Weeds - Hand-Held or High-Volume Equipment, Section 14.3.

7.5 Selective Equipment

This product may be applied through shielded applicators, hooded sprayers, wiper applicators or sponge bars after dilution and thorough mixing with water to listed weeds growing in any non-cron site specified on this label.

In cropping systems, hooded sprayers, shielded sprayers, and wipers may be used in row-middles (in between rows of crop plants) where any dripping or leaking will not contact crop foliage. Such equipment must be capable of preventing all crop contact with herbicide solutions and operated without leakage of spray mists or dripping onto crop. Wipers over-the-top of crops may be used only when specifically labeled in this product's labeling.

AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION

Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators used above desirable vegetation must be adjusted so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation. Droplets, mist, foam or splatter of the herbicide solution settling on desirable vegetation may result in discoloration, stunting or destruction.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

Shielded and Hooded Applicators

When applied under the conditions described in the following paragraphs for shielded and hooded applications, this product at labeled rates will control those weeds listed in the Annual Weeds and Perennial Weeds tables, Sections 14.0 and 15.0. A hooded sprayer is a type of shielded applicator where the spray pattern is fully enclosed including top, sides, front and back, thereby shielding the crop from the spray solution. Keep shields on these sprayers adjusted to protect desirable vegetation. When applying to crops grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.

This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. If the hoods are raised, spray particles may escape and come into contact with the crop, causing damage or destruction of the crop. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

Use hoods designed to minimize excessive dripping or run off down the insides of the hoods. Use a single, low pressure/low drift flat-fan nozzle with an 80 to 95° spray angle positioned at the top center of the hood. Minimum spray volume must be 20.0 to 30.0 gallons per acre.

These procedures will reduce the potential for crop injury:

 The spray hoods must be operated on the ground or skimmed across the ground.

- Leave at least an 8 inch untreated strip over the drill row. For example, if the crop row width is 38 inches the maximum width of the spray hood should be 30 inches.
- Maximum tractor speed: 5 miles per hour to avoid bouncing of the spray hoods
- Maximum wind speed: 10 miles per hour.
- Use low-drift nozzles that provide uniform coverage within the treated area.

Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop. Do not apply this product when the leaves of the crop are growing in direct contact with weeds to be treated. Droplets, mist, foam or splatter of the herbicide solution may contact the crop and cause discoloration, stunting or destruction.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRARI F VEGETATION

Winer Applicators

When applied under the conditions described in the following paragraphs, this product CONTROLS many weeds, including Bristly starbur, Common rye, Shatercane, Sicklepod, Spanish needles, Texas panicum, and Volunteer corn; and SUPPRESSES many weeds including Bermuda grass, Canada thistle, Dogfennel, Florida beggarweed, Giant ragweed, Guineagrass, Hemp dogbane, Johnsongrass, Milkweed, Musk thistle, Redroot pigweed, Silverleaf nightshade, Smutgrass, Sunflower, Vasevgrass, and Velvetleaf.

Wiper applicators are devices that physically wipe appropriate amounts of this product directly onto the weed.

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if 2 applications are made in opposite directions.

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that on sloping ground the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

Do not use wiper equipment when weeds are wet.

Mix only the amount of solution to be used during a 1-day period, as reduced activity may result from use of leftover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

Do not add surfactant to the herbicide solution.

For Rope or Sponge Wick Applicators - Mix 1.0 gallon of this product in 2.0 gallons of water to prepare a 33% solution. Apply this solution to weeds listed above in this section.

For Panel Applicators - Solutions ranging from 33 to 100% of this product in water may be used in panel wiper applicators.

7.6 Injection Systems

This product may be used in aerial or ground injection spray systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. Do not mix this product with the concentrate of other products when using injection systems.

7.7 Controlled Droplet Application (CDA) Equipment

The rate of this product applied per acre by vehicle-mounted CDA equipment must not be less than the amount labeled in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 3.0 to 20.0 nallons of water per acre.

For the control of annual weeds with hand-held CDA units, apply a 20% solution of this product at a flow rate of 2.0 fluid ounces per minute and a walking speed of 1.5 mph (1.0 quart per acre). For the control of perennial weeds, apply a 20 to 40% solution of this product at a flow rate of 2.0 fluid ounces per minute and a walking speed of 0.75 mph (2.0 to 4.0 quarts per acre).

Controlled droplet application equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or destruction may result.

8.0 ANNUAL AND PERENNIAL CROPS (Alphabetical)

This section is organized alphabetically by crop category. There may be several labeled crops listed in a crop category.

SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS, PRE-HARVEST INTERVALS, AND ADDITIONAL PRECAUTIONS AND RESTRICTIONS.

See Roundup Ready Crops, Section 11.0, or separately published Loveland Products, Inc. supplemental labeling for instructions for treating Roundup Ready crops.

Types of Applications

Chemical fallow, Preplant fallow beds, Preplant, Preemergence, At-planting, Hooded sprayers in row-middles, Shielded sprayers in row-middles, Wiper applications in row-middles and Postharvest treatments.

Additional application types may be specified or allowed in individual crop categories.

Use Directions

Apply this product during fallow intervals preceding planting, prior to planting or transplanting, at-planting or preemergent to annual and perennial crops listed in this label, except where specifically limited. For any crop NOT listed in this label, applications must be made at least 30 days prior to planting. UNLESS OTHER-WISE SPECIFIED, WEED CONTROL APPLICATIONS MAY BE MADE ACCORDING TO THE RATES LISTED IN ANNUAL WEEDS, PERENNIAL WEEDS, AND WOODY BRUSH AND TREES RATE TABLES, SECTIONS 14.0, 15.0 AND 16.0. Repeat applications may be made up to a maximum of 8.0 quarts per acre per year.

Post directed hooded sprayers and wiper equipment capable of preventing all crop contact with herbicide solutions may be used in mulched or unmulched row-middles after crop establishment. Where specifically noted below, wipers may also be used above certain crops to control tall weeds. Refer to Selective Equipment, Section 7.5, for essential precautions when using hooded sprayers or wipers to avoid crop injury caused by leakage of spray mists or dripping onto crops. Crop injury is possible with these applications and shall be the sole responsibility of the applicator.

The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other glyphosate- or sulfosate-containing products does not exceed stated maximum use rate.

Precautions

- Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe injury or destruction may result.
- Apply before seed germination in coarse sandy soils to further minimize the risk of injury.

Restrictions

- Pre-harvest Interval (PHI): Unless otherwise specified in this product's labeling, treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest.
- In crops where spot treatments are allowed, do not treat more than 10% of the total field to be harvested. The crop receiving spray in treated area will be killed.
 Take care to avoid drift or spray outside the target area for the same reason.
- When making preemergence and at-planting applications, applications must be made before crop emergence to avoid severe crop injury. Broadcast applications made at emergence will result in injury or death to emerged seedlings.
- Postharvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop.
- Pre-harvest Interval (PHI): For broadcast post-emergent treatments, do not harvest or feed treated vegetation for 8 weeks following application, unless otherwise specified.

8.1 CEREAL CROPS

LABELED CROPS: Barley, Buckwheat, Millet (Pearl and Proso), Oats, Rice, Rye, Quinoa, Teff, Teosinte, Triticale, Wheat (all), Wild rice			
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0	
D l d	This could be a selected to the selected to th	December 1 to 6 the control of the 6 th control of	
Preplant	This product may be applied before, during or after	Do not treat rice fields or levees when the field contains	
Preemergence	planting of cereal crops. Applications must be made	floodwater.	
At-planting	prior to emergence of the crop.	DO NOT TREAT BLOS SIEL DO OR LEVISED MULEN THE	
Red rice control (prior to planting Rice)	Avoid spraying during low humidity conditions, as	DO NOT TREAT RICE FIELDS OR LEVEES WHEN THE	
	reduced control may result.	FIELDS CONTAIN FLOOD WATER.	
	Apply 1.5 qt of this product in 5.0 to 10.0 gal of	DO NOT REFLOOD TREATED FIELDS FOR 8 DAYS	
	water/A. Flush fields prior to application to obtain	FOLLOWING APPLICATION.	
	uniform germination and stand of red rice. Make		
	application when the majority of the red rice plants		
	are in the 2-leaf stage and no more than 4 inches		
	tall. Red rice plants with less than 2 true leaves may		
0	only be partially controlled.	December 11 and 12 and 12 and 13 and 14 and 15 and	
Spot treatment (except Rice)	This product may be applied as a spot treatment in	Do not treat more than 10% of the total field area to be	
	cereal crops. Apply this product before heading in	harvested. The crop receiving spray in the treated area will	
	small grains.	be killed. Take care to avoid drift or spray outside target	
O	Mines and instinct and he would be wheat To another	area for the same reason.	
Over-the-top	Wiper applications may be used in wheat. To control	Pre-harvest Interval (PHI): Allow at least 35 days between	
Wiper applications (feed barley and wheat only)	common rye or cereal rye, apply after the weeds	application and harvest. Do not use roller applicators.	
(leed barley and wheat only)	have headed and achieved maximum growth, when the rye is at least 6 inches above the wheat crop.		
Preharvest	This product provides weed control when applied	Do not apply more than 1.0 at of this product/A.	
(feed barley and wheat only)	prior to harvest of wheat. Apply after the hard-dough	Do not apply to wheat or barley grown for seed, as a	
(leed barley and wheat only)	stage of grain (30% or less grain moisture) and at	reduction in germination or vigor may occur.	
	least 7 days prior to harvest. Wheat stubble may be	Pre-harvest Interval (PHI): Allow 7 days between	
	grazed immediately after harvest. This product may	application and harvest or grazing.	
	be applied using either aerial or ground spray equipment.	application and harvest of grazing.	
	For ground applications, apply this product in 10.0 to		
	20.0 gal of water/A. For aerial applications, apply this		
	product in 3.0 to 10.0 gal of water/A.		
Postharvest	This product may be applied after harvest of cereal	For any crop not listed on this label, applications must be	
1 Oothur voot	crops. Higher rates may be required for control of	made at least 30 days prior to planting the next crop.	
	large weeds which were growing in the crop at the	Pre-harvest Interval (PHI): Allow a minimum of 7 days	
	time of harvest. Tank mixtures with 2.4-D or dicamba	between treatment and harvest or feeding of treated	
	may be used.	vegetation.	
-	maj 50 4004.	1 rogowatom	

8.2 CORN (Non-Roundup Ready)
LABELED CROPS: Field corn, Seed corn, Silage corn, Sweet corn and Popcorn

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0	
Preplant Preemergence At-planting	This product may be applied before, during or after planting corn. Applications must be made prior to emergence of the crop. Tank Mixtures: Apply these tank mixtures in 10.0 to 20.0 gal of water or 10.0 to 60.0 gal of nitrogen solution/A. 2,4 D Fultime® Aim® Guardsman®/Leadoff® Atrazine Harness® Axiom® Harness Xtra Balance® Harness Xtra 5.6L Bicep Magnum® Lariat® Bicep II Magnum® Intrro® Bullet® Linex®/Lorox® Degree® Marksman® Degree Xtra Micro-Tech® Distinct® Stealth® Dual II Magnum® Python® Dual II Magnum® simazine Epic® Topnotch® Frontier®/Outlook® For difficult-to-control annual weeds such as	Applications of 2,4-D or dicamba must be made at least 7 days prior to planting corn. For southern states, do not apply in nitrogen solutions to tough-to-control grasses such as Annual ryegrass, Barnyardgrass, Bradleaf signalgrass, Fall panicum, and any perennial weeds. The area covered by these directions includes from Route 50 South in IL and IN and the following states: AK, AL, DE, FL, GA, KY, LA, MD, MI, NJ, NC, OK, SC, TN, TX, VA, and West VA.	
	Barnyardgrass, Broadleaf signal grass, Crabgrass, Fall panicum, and Shattercane, up to 2 inches tall and Pennsylvania smartweed up to 6 inches tall, apply this product at 2.0 pt/A in these tank mixtures. For other labeled weeds, apply 1.5 to 2.0 pt of this product/A when weeds are less than 6 inches tall, 2.0 to 3.0 pt when weeds are over 6 inches tall. When using nitrogen solutions as the carrier, use rate may need to be increased for acceptable weed control.		
Spot treatment	For spot treatments, apply this product prior to silking of corn.	Do not treat more than 10% of the total field area to be harvested. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.	
Hooded sprayers	This product may be used through hooded sprayers for weed control between the rows of corn. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instructions for the use of hooded sprayers in the Application Equipment and Techniques, Section 7.0 of this label. PRECAUTION: Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator.		

8 2 Corn (Non-Roundun Ready) cont'd .

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
Preharvest	Make applications at 35% grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed). For ground applications, apply up to 3.0 qt of this product/A. For aerial applications, apply up to 2.0 qt of this product/A. PRECAUTION: It is not recommended that corn grown for seed be treated because a reduction in germination or vigor may occur.	Pre-harvest Interval (PHI): Allow a minimum of 7 days between application and harvest.
Postharvest	This product may be applied after harvest of corn. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.	Pre-harvest Interval (PHI): Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

8.3 COTTON

LABELED CROPS: Cotton (Non-Roundup Ready)			
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0	
Preplant	This product may be applied before, during or after	Applications must be made prior to emergence of the crop.	
Preemergence	planting cotton.		
At-planting			
Hooded sprayer	This product may be applied through hooded sprayers,	See Selective Equipment, Section 7.5, for information on	
Selective equipment	shielded applicators or wiper applicators in cotton.	proper use and calibration of this equipment application and harvest.	
		Pre-harvest Interval (PHI): Allow at least 7 days between application and harvest.	
Spot treatment	For spot treatments, apply this product prior to boll	Do not treat more than 10% of the total field area to be	
	opening of cotton.	harvested. The crop receiving spray in treated area will be	
		killed. Take care to avoid drift or spray outside target area for the same reason.	
Preharvest	This product provides weed control and cotton regrowth	Pre-harvest Interval (PHI): Allow at least 7 days between	
Fielialvest	inhibition when applied prior to harvest of cotton. For	application and harvest.	
	weed control, apply at rates given in the Annual Weeds,	Do not apply to cotton grown for seed, as a reduction in	
	Perennial Weeds and Woody Brush and Trees rate tables,	germination or vigor may occur.	
	Sections 14.0, 15.0, and 16.0.	THE USE OF ADDITIVES OTHER THAN THOSE LISTED ON	
	Apply 1.0 pt to 2.0 qt of this product/A for cotton	THIS LABEL FOR PREHARVEST APPLICATION TO	
	regrowth inhibition. Up to 2.0 qt of this product may be applied using either	COTTON IS PROHIBITED.	
	aerial or ground spray equipment. Apply after sufficient		
	bolls have developed to produce the desired yield of		
	cotton. Applications made prior to this time could affect		
	maximum yield potential.		
	Tank Mixtures: This product may be tank mixed with		
	DEF® 6, Folex® Ginstar® or Prep® to provide additional		
	enhancement of cotton leaf drop.		

8.4 FALLOW SYSTEMS
LABELED CROPS: This product may be applied during the fallow period prior to planting or emergence of any crop on this label

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
Chemical fallow	This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields. Ground or aerial application equipment may be used. Tank mixtures with 2,4-D and dicamba may be used. Applications up to 2.0 qt/A may be made by aerial application in fallow sites where there is sufficient buffer to prevent injury due to drift onto adiacent crops.	For any crop not listed on this label applications must be made at least 30 days prior to planting. DO NOT APPLY DICAMBA TANK MIXTURES BY AIR IN CA. Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures.
Preplant fallow Beds	This product may be applied to fallow beds prior to planting or emergence of any crop listed on this label. This product will control weeds listed in the Annual Weeds, Perennial Weeds and Woody Brush and Trees rate tables, Sections 14.0, 15.0, and 16.0. Tank Mixtures: In addition, 12.0 fl oz of this product plus 2.0 to 3.0 oz of Goal® 2XL (or generic equivalent)/A will control the following weeds with the maximum height or length indicated: 3" - Chickweed, Common cheeseweed, Groundsel; 6" - London rocket, Shepherd's-purse. 16.0 fl oz of this product plus 2.0 to 3.0 oz of Goal 2XL (or generic equivalent)/A will control the following weeds with the maximum height or length indicated: 6" - Common cheeseweed, Groundsel, Marestail (Conyza canadensis), 12" - Chickweed, London rocket, Shepherd's-purse. PRECAUTION: Some crop injury may occur if dicamba is applied within 45 days of planting.	For any crop not listed on this label applications must be made at least 30 days prior to planting. DO NOT APPLY DICAMBA TANK MIXTURES BY AIR IN CA Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures.
Aid-to-Tillage	This product may be used in conjunction with tillage practices in fallow systems or preplant to labeled crops to control Cheat, Downy brome, Foxtail, Tansy mustard, and Volunteer wheat. Apply 12.0 fl oz of this product in 3.0 to 10.0 gal of water/A. Make applications before weeds are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. PRECAUTION: Tank mixtures with residual herbicides may result in reduced performance.	Allow at least 1 day after application before tillage.

8.5 GRAIN SORGHUM (Milo)
LARFLED CROPS: Grain Sorghum (Milo)

LABELED CROPS: Grain Sorghum (Milo)	LIGE DIDECTIONS	PEOTRICTIONS
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
Preplant Preemergence At-planting	This product may be applied alone or in tank mixture before, during or after planting grain sorghum. Applications must be made prior to emergence of the crop. Tank Mixtures: Apply these tank mixtures in 10.0 to 20.0 gal of water or 10.0 to 60.0 gal of nitrogen solution/A. Atrazine Lariat Bicep II Magnum Lasso® Bullet® Micro-Tech Dual II Magnum Milo-Pro® For difficult-to-control annual weeds such as Barnyardgrass, Broadleaf signalgrass, Crabgrass, Fall panicum, and Shattercane up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2.0 pt/A in these tank mixtures. For other labeled annual weeds, apply, 1.5 to 2.0 pt of this product/A when weeds are less than 6 inches tall, and 2.0 to 3.0 pt when weeds are over 6 inches tall. When using nitrogen solutions as the carrier, the use rate may need to be increased for acceptable weed control.	For spot treatment. Do not treat more than 10% of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason. Pre-harvest Interval (PHI): For wiper applicators, allow at least 40 days between application and harvest. Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.
Spot treatment Over-the-top Wiper applications	This product may be applied as a spot treatment in grain sorghum. Make spot treatments before heading of milo. This product may be applied with wiper applicators to control or suppress the weeds listed under Shielded and Hooded Applicators in Section 7.5.	See Restrictions in Section 8.0 For spot treatment do not treat more than 10% of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason. Pre-harvest Interval (PHI): For wiper applicators, allow at least 40 days between application and harvest. Do not use roller applicators. Do not great or graze treated milo fodder.
Hooded sprayers	This product may be used through hooded sprayers for weed control between the rows of milo. Only sprayers that completely enclose the spray pattern may be used. See additional instruction for the use of Shielded and Hooded Applicators in Section 7.5. Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop. Do not apply this product when the leaves of the crop are growing in direct contact with weeds to be treated. Droplets, mist, foam or splatter of the herbicide solution may contact the crop and cause discoloration, stunting or destruction.	Do not ensile treated vegetation. Milo must be at least 12 inches tall, measured without hooded extending leaves. Treat before milo sends tillers between the drill rows. If such tillers are contacted with the spray solution, the main plant may be killed. Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Do not graze or feed milo forage or fodder following applications of this product through hooded sprayers. Do not apply more than 1.0 qt of this product/i/application and no more than 3.0 qt/A for hooded sprayer applications.

8.5 Grain	Sorahum	(Milo) cont'	d.,
TYPEO OF	A DDI IOA	TIONÓ		

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
Preharvest	It is not recommended that sorghum grown for seed be treated, as a reduction in germination or vigor may occur.	Do not apply more than 2.0 qt of this product/A.
	Make applications at 30% grain moisture or less. The use of this product for pre-harvest grain sorghum (milo) is not registered in CA. As with other herbicides that cause sudden plant death, avoid ore-harvest applications of this product to milo	Pre-harvest Interval (PHI): Allow a minimum of 7 days between application and harvest of sorghum.
	infected with charcoal rot as lodging can occur.	
Postharvest	This product may be applied after harvest of grain sorghum. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.	Pre-harvest Interval (PHI): Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.
	This product may be applied to grain sorghum (milo) stubble following harvest to suppress or control regrowth. Apply 1.0 qt of this product/A for control, or 1.5 pt of this product/A for suppression.	

8.6 HERBS AND SPICES

LABELED CROPS: Allspice, Angelica, Star anise, Annatto (seed), Balm, Basil, Borage, Burnet, Chamomile, Caper buds, Caraway, Black caraway, Cardamom, Cassia bark, Cassia buds, Catnip, Celery seed, Chervil (dried), Chive, Chinese chive, Cilantro (seed), Cinnamon, Clary, Clove buds, Coriander leaf (cilantro or Chinese parsley), Coriander seed (cilantro), Costmary, Cilantro (leaf), Cumin, Curry (leaf), Dill (dillweed), Dill (seed), Epazote, Fennel seed (common and Florence), Fenugreek, White ginger flower, Grains of Paradise, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage (leaf and seed), Mace, Marigold, Marjoram (including oregano), Mexican oregano, Miaga flower, Mustard (seed), Masturtium, Nutmeg, Parsley (dried), Pennyroyal, Pepper (black and white), Pepper leaves, Peppermint, Perilla, Poppy (seed), Rosemary, Rue, Saffron, Sage, Savory (summer and winter), Spearmint, Stevia leaves, Sweet bay, Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff, Wormwood

		arragon, inyme, vanilla, wintergreen, woodruπ, wormwood
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
	PRECAUTION: This product could cause crop injury. When applying this product prior to transplanting or direct seeding crops into plastic mulch, care must be taken to remove product residues from the plastic prior to planting. Residual product can be removed by a single 0.5-inch application of water, either by natural rainfall or via a sprinkler system. Care must be taken to ensure that the washwater flushes off the plastic mulch and does not enter transplant holes. Applications made at emergence will result in injury or death to emerged seedlings. For some crops below, it is recommended to make applications 3 days before transplanting or planting.	
Over-the-top wiper application	This product may be applied as a spot treatment or over	Pre-harvest Interval (PHI): Allow at least 7 days
Spot Treatment	the top of peppermint or spearmint with wiper applications	between application and harvest. Further applications
(Peppermint and Spearmint only)	in spearmint and peppermint. Apply spot treatments on a spray-to-wet basis with hand-held equipment, such as backpack sprayers, pump up pressure sprayers, hand guns, hand wands, or any other hand-held or motorized spray equipment used to direct the spray solution to a limited area. In wiper applications, the applicator must be adjusted so that the wiper contact point is at least 2 inches above the crop. Weeds should be a minimum of 6 inches taller than the crop. PRECAUTION: Contact of the herbicide solution with the crop may result in discoloration, stunting, or destruction.	may be made in the same area at 30-day intervals. In spot treatment applications, no more than 10% of the total field area to be harvested can be treated at one time. Crop sprayed in treated area will be killed. Take care not to spray or allow spray to drift outside the target area to avoid unwanted crop destruction.

8.7 OIL SEED CROPS
LABELED CROPS: Borage, Buffalo gourd (seed), Canola (Non-Roundup Ready), Crambe, Flax, Jojoba, Lesquerella, Meadowfoam, Mustard (seed), Rape, Safflower. Sesame. Sunflower

Safflower, Sesame, Sunflower		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
Preplant At-planting Preemergence	This product may be applied before, during or after planting oilseed crops listed in this section, but must be applied prior to crop emergence. Observe the maximum application rates listed at the beginning of this section. Tank Mixtures: For sunflower, a tank mixture with Stealth may be applied before, during or after planting into conventionally tillage soil, a cover crop, established sod or previous crop residue.	
Preharvest (except Buffalo gourd)	This product provides weed control and serves as a harvest aid when applied to a physiologically mature oilseed crop listed in this section. For safflower, apply up to 3.0 qt of this product/A when seed has lost its opaque character, approximately 20 to 30 days after the end of flowering of the secondary branches. For sunflower, apply up to 1.0 qt of this product when the backsides of the sunflower heads are yellow and bracts are turning brown and seed moisture content is less than 35%. For all other oilseed crops listed in this section (except Buffalo gourd), apply up to 48.0 fl oz of this product/A prior to harvest.	DO NOT MAKE A PREHARVEST APPLICATION if you have exceeded the maximum application rates for the combined total of all preemergence and selective equipment applications listed in the table in this section. Make only 1 preharvest application of this product. Pre-harvest Interval (PHI): Allow a minimum of 7 days between application and harvest or feeding to livestock. Application must be made a minimum of 30 days prior to the planting of any crop not listed on the Roundup Ultra® herbicide product label.
	Maximum Application Rates if a Preharvest Application is Made Safflower Combined total for all Preemergence 3.0 qt/A and Selective Equipment applications	
	Preharvest application 3.0 qt/A	
	Sunflower Combined total for all Preemergence 1.0 qt/A and Selective Equipment applications	
	Preharvest application 1.0 qt/A	
	All Other Oilseed Crops Listed (Except Buffalo gourd)	
	Combined total for all Preemergence and Selective Equipment applications Preharvest application 48.0 fl oz/A	
Postharvest	This product may be applied for weed control after	Do not exceed a total application rate of 8.0 gt of this
T Ostrika vest	harvest of oilseed crops. Higher rates might be required for control of large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the specific product being used is labeled for postharvest application in the crop harvested. Read and follow label directions for all products in the tank mixture.	product/Ayear. Pre-harvest Interval (PHI): Allow a minimum of 7 days between application of this product and harvest or feeding of vegetation in the application area. Application must be made a minimum of 30 days prior to the planting of any crop not listed on the Roundup Ultra herbicide product label.

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
Selective equipment	This product may be applied using a wiper applicator or shielded sprayer between crop rows once the crop is established. Observe the maximum application rates listed at the beginning of this section. See Application and Techniques, Section 7.0 for additional instructions on the use of wiper applicators and shielded sprayers.	See the use instructions at the beginning of this section for important information on maximum application rates for preemergence and selective equipment applications of this product.
8.8 SOYBEANS	- Deady)	
8.8 SOYBEANS <u>LABELED CROPS: Soybeans (Non-Roundu</u> TYPES OF APPLICATIONS	p Ready)	RESTRICTIONS

TYPES OF APPLICATIONS	USE DIRECTIONS		RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section	n 8.0	See Restrictions in Section 8.0
Preplant Preemergence At-planting	This product may be applied planting soybeans. Applicatit to emergence of the crop. Refer to table below for tank applied before, during or aft tillage systems, into a cover previous crop residue. This product may be tank mi See the 2,4-D label for intervalenting. For difficult-to-control weeds Barnyardgrass, Crabgrass, Signalgrass up to 2 inches to smartweed up to 6 inches tank mixtures. Weeds, apply 1.5 to 2.0 pt of are less than 6 inches tall an are over 6 inches tall. Tank Mixes: Aim Assure® II Authority® Boundary® Canopy XL Command Domain Dual II Magnum Firstrate Flexstar® Frontline/Outlook Fusion®	before, during or after ons must be made prior in mixtures that may be re planting in conventional crop, established sod or in ixed with 2,4-D or 2,4-DB, vals between application and ixed with 2,4-D or 2,4-DB, vals between application and ixed with 2,4-D or 2,4-DB, vals between application and ixed with 2,4-D or 2,4-DB, vals between application and ixed such as Fall panicum, shattercane and Broadleaf all, and Pennsylvania ill, apply this product at 2.0 For other labeled annual if this product A when weeds and 2.0 to 3.0 pt when weeds in the product in the	See Hestrictions in Section 8.0 The tank mix recommendations in this section are not registered in CA.
Spot treatment	Gauntlet® For spot treatments, apply the	Valor® nis product prior to initial	Do not treat more than 10% of the total field area to be
	pod set in soybeans.	no product prior to militar	harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

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TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
Preharvest	This product provides weed control when applied prior to harvest of soybeans. Apply at rates given in the Annual Weeds, Perennial Weeds and Woody Brush and Trees rate tables, Sections 14.0, 15.0, and 16.0. This product may be applied using either aerial or ground spray equipment. Apply after pods have set and lost all green color. Care should be taken to avoid excessive seed shatter loss due to ground application equipment.	Do not apply more than 5.0 qt/A of this product for pre-harvest applications. Do not apply more than 2.0 qt/A of this product by air. Pre-harvest Interval (PHI): Allow a minimum of 7 days between application and harvest of soybeans. Do not graze or harvest treated hay or fodder for livestock feed within 25 days of last pre-harvest application. (If the application rate is 1.0 qt/A or lower, the grazing restriction is reduced to 14 days after the last pre-harvest application.) Do not apply to soybeans grown for seed as a reduction in germination or vigor may occur.
Selective equipment	This product may be applied through shielded applicators, hooded sprayers, wiper applicators or sponge bars in soybeans. See Selective Equipment, Section 7.5, for information on proper use and calibration of this equipment.	Pre-harvest Interval (PHI): Allow at least 7 days between application and harvest.

8.9 SUGARCANE LABELED CROPS: Sugarcane

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
Preplant	This product may be applied in or around sugarcane	Do not apply to vegetation in or around ditches, canals
Preemergence At-planting	fields or in fields prior to the emergence of plant cane.	or ponds containing water to be used for irrigation.
Spot treatment	Avoid spray contact with healthy cane plants since severe damage or destruction may result. This product may be applied as a spot treatment in sugarcane. For control of volunteer or diseased sugarcane make a 1% solution of this product in water and spray-to-wet the foliage of vegetation to be controlled. Volunteer or diseased sugarcane should have at least 7 new leaves.	Do not feed or graze treated sugarcane foliage following application.
Fallow treatments	This product may be used as a replacement for tillage in fields that are lying fallow between sugarcane crops. This product may also be used to remove the last stubble of ratoon cane. For removal of last stubble of ratoon cane, apply 4.0 to 5.0 qt of this product in 10.0 to 40.0 gal of water/A to new growth having at least 7 new leaves. Ground or aerial application equipment may be used. Applications up to 3.0 qt/A may be made by aerial application in fallow sites where there is sufficient buffer to prevent injury due to drift onto adjacent crops. Tank mixtures with 2,4-D and dicamba may be used.	Allow 7 or more days after application before tillage.

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See Types of Applications in Section 8.0 This product may be used through hooded sprayers for weed control between the rows of sugarcane. See Application Equipment and Techniques, Section 7.0, for additional Use Directions. Minimize the potential for spray particles to escape from under the hood by operating the sprayer at appropriate ground speeds, nozzle pressures and wind speeds. Operation on rough or slopping ground may result in spray particles escaping from the hood. When applying to sugarcane that is grown on raised beds, ensure that the thood is designed to completely enclose the spray; if necessary, extend the front and rear flaps of the hoods to reach the ground in furrows between the rows. PREADTIONE troplets, mist, foam or splatter of the herbicide solution settling on the crop may result in discoloration, stunting or destruction. Such damage shall be the sole responsibility of the application: This product is a foliar-applied plant growth regulator to hasten ripening and increase the level of sucrose in sugarcane. It is effective in both low and high-tomage sugarcane. When applied as directed, under the conditions described, this product will hasten ripening and extend the period of high sucrose level in sugarcane. As a result of leaf desiccation, improved trash burn can be expected. Most of the sucrose increase is concentrated in the tondes of the treated cane stalk. In order to recover the maximum sugar where topping is practiced during harvest, to pat the base of the fourth leaf. Prior to application, consult your state sugarcane authority or local Loveland Products, line. representative regarding the degree of sucrose response anticipated from the variety of sugarcane to be treated. Do not plant subsequent crops in treated fields other than the following pipication rates and thinging tructions according to the state in which the sugarcane is grown. PRECAUTION: Application of this product may initiate development of shooting eyes. This product may initiate development of shooting eye	8.9 Sugarcane cont'd.:		
This product may be used through hooded sprayers for weed control between the rows of sugarcane. See Application Equipment and Techniques, Section 7.0, for additional Use Directions. Minimize the potential for spray particles to escape from under the hood by operating the sprayer at appropriate ground speeds, nozzle pressures and wind speeds. Operation on rough or sloping ground may result in spray particles secaping from the hood. When applying to sugarcane that is grown on raised beds, ensure that the hood is designed to completely enclose the spray, if necessary, extend the front and rear flaps of the hords to reach the ground in furrows between the rows. PRECAUTION: Droplets, mist, foam or splatter of the herbricide solution settling on the crop may result in discoloration, stunting or destruction. Such damage shall be the sole responsibility of the applicator. This product is a foliar-applied plant growth regulator to hasten ripening and increase the level of sucrose in sugarcane. It is effective in both low and high-tonnage sugarcane. When applied as directed, under the conditions described, this product will hasten ripening and extend the period of high sucrose level in suparcane. As a result of leaf desiccation, improved trash burn can be expected. Most of the sucrose increase is concentrated in the top nodes of the treated cane stalk. In order to recover the maximum sugar where topping is practiced during harvest, to pat the base of the fourth leaf. Prior to application, consult your state sugarcane authority or local Loveland Products, inc. representative regarding the degree of sucrose response anticipated from the variety of sugarcane to de the treated. On only plant subsequent crops in treated fields other than the following pipication rates and timing instructions according to the state in which the sugarcane is grown. PRECAUTION: Application of this product may initiate development of shooting eyes. This product may initiate development of shooting eyes. This product may intiate devel	TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
weed control between the rows of sugarcane. See Application Equipment and Techniques, Section 7.0, for additional Use Directions. Minimize the potential for spray particles to escape from under the hood by operating the sprayer at appropriate ground speeds, nozzle pressures and wind speeds. Operation on rough or sloping ground may result in spray particles escaping from the hood. When applying to sugarcane that is grown on raised beds, ensure that the hood is designed to completely enclose the spray. If necessary, extend the front and rear flags of the hoods to reach the ground in furrows between the rows-PRECAUTION. Propletis, mist, faom or splatter of the herbicide solution settling on the crop may result in discoloration, stunding or destruction. Such damage shall be the sole responsibility of the applicator. This product is a foliar-applied plant growth regulator to hasten ripening and increase the level of sucrose in sugarcane. It is effective in both low and high-tonnage sugarcane. When applied as directed, under the conditions described, this product will hasten ripening and extend the period of high sucrose level in sugarcane. As a result of leaf desicaction, improved trash burn can be expected. Most of the sucrose increase is concentrated in the top nodes of the treated cane stalk in order to recover the maximus sugar where topping is practiced during harvest, top at the base of the fourth leaf. Prior to application, consult your state sugarcane authority or local Loveland Products, inc. representative regarding the degree of sucrose response anticipated from the varriety of sugarcane to be treated. Do not plant subsequent crops in treated fields other than the following or of what. Application Rates: Use the following application rates and timing instructions according to the state in which the sugarcane sig grown. PRECAUTION. Application of this product may inditate development of shooting eyes. This product may inditate development of shooting eyes. This product may inditate	See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
hasten ripening and increase the level of sucrose in sugarcane. It is effective in both low and high-tonnage sugarcane. When applied as directed, under the conditions described, this product will hasten ripening and extend the period of high sucrose level in sugarcane. When applied as directed, under the conditions described, this product will hasten ripening and extend the period of high sucrose level in sugarcane. As a result of leaf desiccation, improved trash burn can be expected. Most of the sucrose increase is concentrated in the top nodes of the treated cane stalk. In order to recover the maximum sugar where topping is practiced during harvest, top at the base of the fourth leaf. Prior to application, consult your state sugarcane authority or local Loveland Products, inc. representative regarding the degree of sucrose response anticipated from the variety of sugarcane to be treated. Do not plant subsequent crops in treated fields other than the following for 30 days after application: alfalfar or other forage legumes, beans (all types), corn (all types), cotton, melons (all types), pasture grasses, peanuts, potatoes (frish or sweet), sorghum (milo), soybeans squash (all types) or wheat. Application Rates: Use the following application rates and timing instructions according to the state in which the sugarcane is grown. PRECAUTION: Application of this product may initiate development of shooting eyes. This product may not increase the sucrose content of sugarcane under conditions of good nature ripening.	Hooded sprayers	weed control between the rows of sugarcane. See Application Equipment and Techniques, Section 7.0, for additional Use Directions. Minimize the potential for spray particles to escape from under the hood by operating the sprayer at appropriate ground speeds, nozzle pressures and wind speeds. Operation on rough or sloping ground may result in spray particles escaping from the hood. When applying to sugarcane that is grown on raised beds, ensure that the hood is designed to completely enclose the spray. If necessary, extend the front and rear flaps of the hoods to reach the ground in furrows between the rows. PRECAUTION: Droplets, mist, foam or splatter of the herbicide solution settling on the crop may result in discoloration, stunting or destruction. Such damage shall be the sole responsibility of the	crop.
produce a slight yellowing to pronounced browning and		This product is a foliar-applied plant growth regulator to hasten ripening and increase the level of sucrose in sugarcane. It is effective in both low and high-tonnage sugarcane. When applied as directed, under the conditions described, this product will hasten ripening and extend the period of high sucrose level in sugarcane. As a result of leaf desiccation, improved trash burn can be expected. Most of the sucrose increase is concentrated in the top nodes of the treated cane stalk. In order to recover the maximum sugar where topping is practiced during harvest, top at the base of the fourth leaf. Prior to application, consult your state sugarcane authority or local Loveland Products, Inc. representative regarding the degree of sucrose response anticipated from the variety of sugarcane to be treated. Do not plant subsequent crops in treated fields other than the following for 30 days after application: alfalfa or other forage legumes, beans (all types), corn (all types), cotton, melons (all types), sorghum (milo), soybeans squash (all types) or wheat. Application Rates: Use the following application rates and timing instructions according to the state in which the sugarcane is grown. PRECAUTION: Application of this product may initiate development of shooting eyes. This product may not increase the sucrose content of sugarcane under conditions of good nature ripening. Within 2 to 3 weeks after application, this product may	Do not feed or graze treated sugarcane forage following application. Do not apply for enhanced ripening to any crops other than sugarcane. Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences.
dusting of tracks found a discontinuous formation of tracks.			Cont'd. next page

8.9	Suc	arcane	cont*	'd.:
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TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 8.0	See Use Directions in Section 8.0	See Restrictions in Section 8.0
For aid in sugarcane ripening (FL, HI, LA, PR and TX) cont'd.:	Spindle death may occur. Rainfall within 6 hours after application may reduce effectiveness. Note: Use the higher rate within the labeled range when treating sugarcane under adverse ripening conditions or when less responsive varieties are to be treated. FL - Apply 5.0 to 12.0 fl oz of this product/A 3 to 6 weeks before harvest of LAST RATOON CANE ONLY. HI - Apply 9.0 to 21.0 fl oz of this product/A 4 to 10 weeks before harvest. LA - Apply 3.5 to 12.0 fl oz of this product/A 3 to 7 weeks before harvest of RATOON CANE ONLY. PR - Apply 5.0 fl oz of this product/A 3 to 5 weeks before harvest of RATOON CANE ONLY. TX - Apply 5.0 to 12.0 fl oz of this product/A 3 to 5 weeks before harvest of RATOON CANE ONLY.	Do not make application to sugarcane grown for seed, as a reduction in germination or vigor may occur. Do not feed or graze treated sugarcane forage following application. Do not apply for enhanced ripening to any crops other than sugarcane. Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences.

8.10 VEGETABLE CROPS

NOTE: THIS VEGETABLE CROPS SECTION GIVES DIRECTIONS THAT APPLY TO ALL LISTED VEGETABLE CROPS WITHIN SECTION 8.10 GROUPED ALPHABETICALLY BELOW. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS, PREHARVEST INTERVALS, PRECAUTIONS AND RESTRICTIONS.

Types of Applications: Chemical fallow, Preplant fallow beds, Preplant, Preemergence, Prior to transplanting vegetables, At-planting, Hooded sprayers in row-middles, Shielded sprayers in row-middles, Wiper applications in row-middles, and Postharvest, Directed applications (Non-Bearing Ginseng), Over-the-top wiper applications (Rutabaaas only).

Precautions, Restrictions: When applying this product prior to transplanting or direct-seeding crops into plastic mulch, care must be taken to remove residues of this product, which could cause crop injury, from the plastic prior to planting. Residues can be removed by single 0.5 inch application of water, either by natural rainfall or via a sprinkler system. Care must be taken to insure that the wash water flushed off the plastic mulch does not enter transplant holes. Applications made at emergence will result in injury or death to emerged seedlings.

Avoid contact of herbicide with foliage, green shoots or stems, bark exposed roots (including those emerging from plastic mulch), or fruit of crops because severe injury or destruction may result. When making preemergence and at-planting applications, applications must be made before crop emergence to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of injury. In crops with vines, hooded sprayer, shielded sprayer and wiper applications to row-middles must be made prior to vine development otherwise severe injury or destruction may result. Unless otherwise specified in this product's labeling, treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest. Postharvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop. See Application Equipment and Techniques, Section 7.0, for additional information.

8.10-1 BRASSICA VEGETABLES

LABELED CROPS: Broccoli, Broccoli (raab), Brussels sprouts, Cabbage, Cabbage (Chinese), Cabbage (Chinese mustard), Cauliflower, Cavalo broccolo, Chinese broccoli (gai lon), Chinese cabbage (bok choy and napa), Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Vegetable Crops in Section 8.10	See Use Directions in Section 8.0	See Restrictions in Section 8.10

8.10-2 BULB VEGETABLES

LABELED CROPS: Garlic, Great-headed garlic, Leek, Onion (dry bulb and green), Shallot, Welsh onion, Shallot

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Vegetable Crops in Section 8.10	See Use Directions in Section 8.0	See Restrictions in Section 8.10

8.10-3 CUCURBIT VEGETABLES AND FRUITS

LABELED CROPS: Chayote (fruit), Chinese waxgourd, Citron melon, Cucumber, Gherkin, Gourds, Gourds (edible including hyotan, cucuzza, hechima, Chinese okra), Melons (All), Momordica spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), Muskmelon (cantaloupe, casaba, crenshaw, golden pershaw, honeydew, honey ball, mango melon, and Persian, pineapple, Santa Claus, snake), Pumpkin, Summer squash (including crookneck, scallop, straightneck, vegetable marrow, zucchini). Winter squash (including butternut calabaza bubbard acorn spaghetti). Watermelon

marrow, zaccining, winter squasir (including butternut, calabaza, nubbaru, acom, spagnetti), watermoon		
TYPES OF APPLICATIONS USE DIRECTIONS RESTR	TRICTIONS	
gherki mangc pumpl	cantaloupe, casaba melon, crenshaw melon, cucumber, rkin, gourds, honeydew melon, honey ball melon, ago melon, melons (all), muskmelon, Persian melon, pikin, squash (summer and winter), and watermelon, w at least 3 davs between application and plantino.	

8.10-4 LEAFY VEGETABLES

LABELED CROPS: Amaranth (Chinese spinach), Arrugula (roquette), Beet greens, Cardoon, Celery, Celery (Chinese), Celtuce, Chaya, Chervil, Chrysanthemum (edible-leaved), Chrysanthemum (Garland), Corn salad, Cress (garden and upland), Dandellon dock (sorrel), Dokudami, Endive (escarole), Fennel (Florence), Gow kee, Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Rhubarb, Spinach (All), Swiss Chard, Watercress (upland), Water Spinach

Lettuce (nead and lear), Orach, Parsley, Pursi	ane (garden and winter), Radicchio (red chicory), Rhubarb, Si	omach (All), Swiss Chard, Watercress (upland), Water Spinach
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Vegetable Crops in Section 8.10	See Use Directions in Section 8.0	See Vegetable Crops in Section 8.10
	For watercress, avoid application within 3 days prior to	
	seeding and during the period between seeding and	
	emergence to minimize the risk of injury.	

8.10-5 FRUITING VEGETABLES

LABELED CROPS: Eggplant, Ground cherry	(<i>Physalis</i> spp.), Pepino, Pepper (includes bell, chili, cooking,	pimento, sweet), Tomatillo, Tomato
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Vegetable Crops in Section 8.10	See Use Directions in Section 8.0	See Vegetable Crops in Section 8.10
	PRECAUTION: For tomato, hooded or shielded sprayer applications in row-middles are not recommended.	For eggplant, ground cherry, pepino, pepper (all), tomatillo, and tomato allow at least 3 days between application and planting.

8.10-6 LEGUME VEGETABLES (succulent or dried)

LABELED CROPS: Bean (Lupinus: includes grain lupin, sweet lupin, white lupin, and white sweet lupin), Bean (Phaseolus: includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean), Bean (Vigna: includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean) Broad bean (fava), Chickpea (garbanzo), Guar, Jackbean, Lablab bean, Lentil pea, (Pisum: includes dwarf pea, edible podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea), Pigeon pea, Soy-bean (immature seed). Sword bean

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Vegetable Crops in Section 8.10	See Use Directions in Section 8.0	See Vegetable Crops in Section 8.10
Preharvest broadcast spray (Dry beans)	This product may be applied as an over-the-top broadcast spray to control labeled weeds prior to the harvest of dry beans. Apply up to 32.0 fl oz in 3.0 to 20.0 gal of water/A at the hard dough stage of the legume seed (30% grain moisture or less). Either ground broadcast or aerial applications may be made.	Pre-harvest Interval (PHI): Apply at least 7 days before harvest for dry beans, dry peas, lentils and chickpeas. Only 1 application/yr may be made; do not combine a pre-harvest spray with a spot treatment on the same crop area. Do not feed treated vines and hay from these crops to
Preharvest broadcast spray	Preharvest application is not recommended for dry beans,	livestock. Do not apply this product through any type of
(Dry peas, Lentils and Chickpeas)	dry peas, lentils and chickpeas grown for seed, as a	irrigation system. Do not treat field (feed) peas, since these
	reduction in germination or vigor may occur.	are considered to be grown as livestock feed.
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8.10-6 Legume Vegetables (succulent or dried) cont'd.:

5.10-0 Leguine vegetables (succurent of uneu) cont u			
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
Preharvest broadcast spray cont'd	This product may be applied as an over-the-top broadcast		
(Dry peas, Lentils and Chickpeas)	spray to control labeled weeds prior to the harvest of dry		
	peas, lentils and chickpeas. Apply up to 64.0 fl oz in 3.0		
	to 20.0 gal of water/A at the hard dough stage of the		
	legume seed (30% grain moisture or less). Either		
	ground broadcast or aerial applications may be made.		
Spot treatment	This product may be applied as spot treatment to control	Pre-harvest Interval (PHI): Apply at least 14 days before	
(Dry beans, Dry peas, Lentils, and	troublesome weeds such as Canada thistle, Quackgrass,	harvest.	
Chickpeas)	Mayweed (Dog fennel), and Milkweed in dry beans. Apply	Only 1 application per year may be made; do not combine a	
	up to 26.0 fl oz in 10.0 to 20.0 gal of water through	pre-harvest spray with a spot treatment on the same crop.	
	ground spray equipment or use a 2% solution in a	Do not feed treated vines and hay from these crops to	
	handheld sprayer. For best results, applications should	livestock. Do not apply this product through any type of	
	be made at or beyond the bud stage of growth. The crop	irrigation system. Do not treat field cowpeas, since these	
	receiving spray in treated areas will be killed.	are considered to be grown as livestock feed.	

8.10-7 ROOT AND TUBER VEGETABLES

LABELED CROPS: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden), Burdock, Canna, Carrot, Cassava (bitter and sweet), Celeriac, Chayote (root), Chervil, Chicory, Chufa, Dasheen, Galangal, Ginger, Ginseng, Horseraddish, Leren, Kava, Parsièy, Parsnips, Potato (Irish), Radish, Radish, Radish, Qriental), Rutabaga, Salsify, Salsify (Black and Spanish), Skirret Sweet potato Tarier Tumeric Tumeric

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Vegetable Crops in Section 8.10	See Use Directions in Section 8.0	See Vegetable Crops in Section 8.10
Direct Application (Non-bearing Ginseng)	This product may be used for weed control in established non-bearing ginseng. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, and orchard guns or with wiper application equipment. PRECAUTION: Extreme care must be exercised to avoid contact of herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit or other parts of desirable plants. Contact of this product with other than matured brown bark can result in serious crop damage.	Pre-harvest Interval (PHI): Applications must be made at least 1 year prior to harvest.
Over-the-Top Wiper Application	Wiper applicators may be used over-the-top of	Pre-harvest Interval (PHI): Allow at least 14 days between
(Rutabaga only)	rutabagas.	application and harvest of rutabagas.

8.11 MISCELLANEOUS CROPS

LABELED CROPS: Aloe vera, Asparagus, Bar	nboo shoots, Globe artichoke, Okra, Peanut (ground nut), Pi	neapple, Strawberry, Sugar Beet (Non-Roundup Ready)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS		
See Vegetable Crops in Section 8.10	See Use Directions in Section 8.0	See Vegetable Crops in Section 8.10		
		Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe injury or destruction may result. When making preemergence and at-planting applications, applications must be made before crop emergence to avoid serious crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of injury. In crops with vines, hooded sprayer, shielded sprayer and wiper applications to row-middles must be made prior to vine development otherwise severe injury or destruction may result. Unless otherwise		

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8 11 Miscellaneous Crons cont'	'n	•
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TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Vegetable Crops in Section 8.10	See Use Directions in Section 8.0	specified in this product's labeling, treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest. Postharvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop.
Weed control Site preparation	This product may be applied for weed control or for site preparation prior to planting or transplanting crops listed in this section. When applying this product prior to transplanting or direct seeding crops into plastic mulch, care must be be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by 0.5 inch natural rainfall or by applying water via a sprinkler system. Care must be taken to insure that the wash water flushes off the plastic mulch and does not enter transplant holes. Injury made at emergence will result in injury or death to emerged seedlings.	Do not apply within a week before the first asparagus spears emerge. Do not feed or graze treated pineapple forage following application.
Spot treatment (Asparagus)	This product may be applied immediately after cutting, but prior to the emergence of new spears.	Do not treat more than 10% of the total field area to be harvested. Pre-harvest Interval (PHI): Do not harvest within 5 days of treatment.
Postharvest (Asparagus)	This product may be applied after the last harvest and all spears have been removed. If spears are allowed to re-grow, delay application until ferns have developed. Delayed treatments should be applied as a directed or shielded spray in order to avoid contact of the spray with ferns, stems or spears. Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.	Do not allow direct contact of the spray with the asparagus which will result in serious crop injury.

9.0 TREE, VINE AND SHRUB CROPS (Alphabetical)

NOTE: THIS SECTION GIVES DIRECTIONS THAT APPLY TO ALL LISTED TREE, VINE AND SHRUB CROPS WITHIN SECTION 9 CROP GROUPS. INDIVIDUAL CROPS MAY HAVE MORE SPECIFIC INSTRUCTIONS, PRE-HARVEST INTERVALS, PRECAUTIONS AND RESTRICTIONS.

Types of Applications: Preplant (Site Preparation), Broadcast Sprays, Weed control, Middles (between rows of trees, vines or shrubs), Strips (within rows of trees, vines or shrubs), Selective Equipment (shielded sprayers, wiper treatments), Directed Sprays, Spot Treatments, Perennial Grass Suppression, Cut Stump.

Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, orchard guns, or with wiper applicator equipment, except as directed.

Use Directions: This product may be applied in middles (between rows of trees or vines), strips (within rows of trees or vines), and for weed control or perennial grass suppression in established tree fruit and tree nut groves, orchards, berries and vineyards. This product may also be used for site preparation prior to planting or transplanting these crops. APPLY AT 1.0 PINT TO 5.0 QUARTS PER ACRE ACCORDING TO THE ANNUAL WEEDS, PERENNIAL WEEDS, AND WOODY BRUSH AND TREES RATE TABLES, SECTIONS 14.0, 15.0 AND 16.0. Utilize rates at the higher end of the labeled rate range when weeds are stressed, growing in dense populations or are greater than 12 inches tall. Repeat applications may be made up to a maximum of 10.6 quarts per acre per year.

The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed stated maximum use rate.

Precautions

- Extreme care must be exercised to avoid contact of herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit or other part of the trees, canes and vines.
- Avoid applications when recent pruning wounds or other mechanical injury has occurred
- Contact of this product with other than mature brown bark can result in serious crop damage or destruction.
- For applications in strips (within rows of trees), only selective equipment (directed sprays, hooded sprayers, shielded applicators, or wipers) must be used to minimize the potential for leakage or drift of herbicide sprays onto crop.

See Application Equipment and Techniques, Section 7.0, for additional directions and precautions.

Restrictions

- Only wipers or shielded applicators capable of preventing all contact with crop may be used.
- Only shielded or directed sprayers may be used in crops with potential for crop contact, and then only where there is sufficient clearance.
- For berry crops, hooded or shielded sprayers must be fully enclosed including top, sides, front and back.
- · Allow a minimum of 3 days between applications and transplanting.

Middles (between rows of trees, vines or bushes)

Use Directions: This product will control or suppress annual and perennial weeds and ground covers growing between the rows of labeled tree and vine crops. If weeds are under drought stress, irrigate prior to application. Reduced control may result if weeds have been mowed prior to application.

Tank Mixtures: A tank mixture of this product plus Goal 2XL (or generic equivalent) may be used for annual weeds in middles between rows of citrus crops, tree fruits, tree nuts and vine crops. This mixture is recommended when weeds are stressed or growing in dense populations. 16.0 to 32.0 ounces per acre of this product plus 3.0 to 12.0 ounces per acre of Goal 2XL will control annual weeds with a maximum height or diameter of 6 inches, including Annual sowthistle, Common cheeseweed (malva), Common groundsel, Common lambsquarters, Common purslane (suppression), Common ryegrass, Crabgrass, Filaree (suppression), Horseweed/marestail (Conyza canadensis), Junglerice, Redroot pigweed, Shephard's-purse, and Stinging nettle. 16.0 to 32.0 ounces per acre of this product plus 3.0 to 12.0 ounces per acre of Goal 2XL will control Common cheeseweed (malva) or Hairy fleabane (Conyza bonanensis) with a maximum height or diameter of 3 inches.

Strips (in rows of trees, vines or bushes)

Tank Mixtures: This product may be applied in rows of tree or vine crops and may also be tank mixed with the following products (or generic equivalent).

Caliber 90 Simazine 4L
Devrinol® 50 DF Simazine 80W
Direx® 4L Sim-Trol® 4L
Goal 2XL Solicam® DF
Karmex® DF Stealth
Krovar® I Sulfan AS
Krovar II Surflan 75W
Princep®

Do not apply these tank mixtures in Puerto Rico.

Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

Perennial Grass Suppression

This product will suppress perennial grasses such as Bahiagrass, Bermudagrass, Tall fescue, Orchardgrass, Kentucky bluegrass, and Quackgrass that are grown as ground covers in tree and vine crops.

For suppression of Tall fescue, Fine fescue, Orchardgrass and Quackgrass, apply 8.0 fluid ounces of this product in 10.0 to 20.0 gallons of water per acre.

For suppression of Kentucky bluegrass covers, apply 6.0 fluid ounces of this product per acre. Do not add ammonium sulfate.

For best results, mow cool season grass covers in the spring to even their height and apply this product 3 to 4 days after mowing.

For suppression of vegetative growth and seedhead inhibition of Bahiagrass for approximately 45 days, apply 6.0 fluid ounces of this product in 10.0 to 25.0 gallons of water per acre. Apply 1 to 2 weeks after full green up or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 4.0 fluid ounces of this product per acre, followed by an application of 2.0 to 4.0 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

For burndown of Bermudagrass, apply 1.0 to 2.0 quarts of this product in 3.0 to 20.0 gallons of water per acre. Use this treatment only if reduction of the Bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur.

For suppression of Bermudagrass, apply 6.0 to 16.0 fluid ounces of this product per acre east of the Rocky Mountains and 16.0 fluid ounces of this product per acre west of the Rocky Mountains. Apply in a total spray volume of 3.0 to 20.0 gallons per acre, no sooner than 1 to 2 weeks after full green-up. If the Bermudagrass is mowed prior to application, maintain a minimum of 3 inches in height. Sequential applications may be made when regrowth occurs and Bermudagrass injury and stand reduction can be tolerated. East of the Rocky Mountains, rates of 6.0 to 10.0 fluid ounces per acre should be used in shaded conditions or where a lesser degree of suppression is desired.

9.1 CUT STUMPS (Tree crops)

LABELED CROPS: Citrus Trees: Calamondin, Chironja, Citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (Tangerine), Orange (all), Pummelo, Tangelo, Tangor

Fruit Trees: Apple. Apricot, Cherry (sweet sour), Crabapple, Loquat, Mayhaw, Nectarine, Olive, Peach, Pear, Plum/Prune (all), Quince

Nut Trees: Almond, Beechnut, Brazil nut, But	ternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hick	pry Nut, Macadamia, Pecan, Pistachio, Walnut (Black, English)
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Suitable Hand-Held Equipment Section 7.4	Cut stump applications of this product may be made	DO NOT MAKE CUT STUMP APPLICATIONS WHEN THE
	during site preparation or site renovation, prior to	ROOTS OF ADJACENT DESIRABLE TREES MAY BE
	transplanting tree crops. This product will control	GRAFTED TO THE ROOTS OF THE CUT STUMP. INJURY
	regrowth of cut stumps and resprouts of many types of	RESULTING FROM ROOT GRAFTING MAY OCCUR IN
	tree species, some of which are listed below.	ADJACENT TREES.
	Apply this product using suitable equipment to ensure	
	coverage of the entire cambium. Cut trees or resprouts	
	close to the soil surface. Apply a 50 to 100% solution	
	of this product to the freshly-cut surface immediately	
	after cutting. Delays in application may result in reduced	
	performance. For best results, applications should be	
	made during periods of active growth and full leaf	
	expansion.	
	PRECAUTION: Some sprouts, stems, or trees may share	
	the same root system. Adjacent trees having a similar age,	
	height and spacing may signal shared roots. Whether	
	grafted or shared, injury is likely to occur to non-treated	
	stems/trees when one or more trees sharing common	
	roots are treated.	

9.2 BERRY CROPS

LABELED CROPS: Blackberry (including bingleberry, black satin berry, boysenberry, Cherokee blackberry, chesterberry, Cheyenne blackberry, coryberry, darrowberry, black satin berry, boysenberry, cherokee blackberry, chesterberry, Cheyenne blackberry, coryberry, darrowberry, black satin berry, boysenberry, cherokee blackberry, chesterberry, blackberry, cheyenne blackberry, cheyenne blackberry, black satin berry, boysenberry, black satin berry, black satin berry, boysenberry, cherokee blackberry, chesterberry, cheyenne blackberry, cheyenne blackberry, black satin berry, boysenberry, blackberry, cheyenne blackberry, cheyenne blackberry, cheyenne blackberry, cheyenne blackberry, cheyenne blackberry, blackberry dewberry, Dirksen thornless berry, Himalayaberry, hullberry, juneberry, lavacaberry, lowberry, lucretiaberry, marionberry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry and youngberry), Blueberry, Cranberry, Currant, Elderberry, Gooseberry, Huckleberry,

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0 Do not permit herbicide solution to contact desirable vegetation, including green shoots, canes or foliage. Pre-harvest Interval (PHI): Allow a minimum of 30 days between last application and harvest of cranberries. For other small fruits and berries, allow a minimum of 14 days between last application and harvest. Do not make directed sprays within the cranberry bush
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	areas prior to berry harvest. See Restrictions in Section 9.0
Spot Treatment (Cranberry production)	May be used to control weeds growing in dry ditches (interior and perimeter) of cranberry production areas. Hand-held sprayers or other appropriate application equipment listed under Application Equipment and Techniques, Section 7.0 may be used. Drop water level to remove standing water in ditches prior to application. In hand-held sprayers use 1 to 2% solution of this product. Spray-to-wet vegetation, not to run off.	Pre-harvest Interval (PHI): Allow a minimum of 30 days between last application and harvest of cranberries. Do not apply this material through irrigation system. Do not make applications by air. Do not apply directly to water. Use nozzles that emit medium- to large-sized droplets to minimize drift in order to avoid crop injury.
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TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Spot Treatment (Cranberry production)	For treatments after draw down of water in dry ditches,	
cont'd	allow 2 or more days after treatment before reintroduction	
	of water to achieve maximum weed control.	
	Apply this product within 1 day after draw down to ensure	
	application to actively growing weeds.	
Postharvest (Cranberry production)	Make applications only after cranberries have been	Do not treat more than 10% of the total bog. Allow a
	harvested to control weeds growing within the field.	minimum of 6 months after the last application and next
	Best results will be obtained if applications are made	harvest of cranberries.
	to vines that appear dormant (after they have turned	Do not apply this product through the irrigation system.
	red). Hand-held sprayers, wipers or other appropriate	Do not make applications by air.
	application equipment listed under Application	Do not apply directly to water.
	Equipment and Techniques, Section 7.0, may be used.	Even though vines appear dormant, contact of the herbicide
	If using hand-held sprayers, use a 0.5 to 1% solution	solution with desirable vegetation may result in damage
	of this product. Spray-to-wet vegetation, not to run	or severe plant injury.
	off. If using hand-held boom sprayers, apply 2.0 to	Cranberry plants that are directly sprayed may be killed.
	4.0 qt of his product/A.	

9.3 CITRUS
LABELED CROPS: Calamondin, Chironja, Citron, Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (All), Pummelo, Satsuma Manda-

rin, Tangelo (ugli), Tangor		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0
	FL and TX only: For burn down or control of the weeds listed below, apply the labeled rates of this product in 3.0 to 40.0 gal of water/A. Where weed foliage is dense, use 10.0 to 30.0 gal of water/A. Where weed foliage is dense, use 10.0 to 30.0 gal of water/A. Apply in 20.0 to 30.0 gal of water/A when plants are actively growing. Use 2.0 qt/A when plants are less than 8 inches tall and 3.0 qt/A when plants are greater than 8 inches tall. If Goatweed is greater than 8 inches tall, the addition of Krovar II or Karmex may improve control. Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.	Pre-harvest Interval (PHI): Allow a minimum of 1 day between last application and harvest. For citron groves apply as directed sprays only.

Perennial weeds S=Suppression B=Burn	ndown PC	=Partial Cor	ntrol C=Control		
Weed Species		Mad Dog	Plus Rate Per	Acre	
•	1.0 Qt	2.0 Qt	3.0 Qt	5.0 Qt	
Bermudagrass	В	_	PC	C	
Guineagrass Texas and Florida Ridge	В	С	С	С	
Guineagrass Florida Flatwoods	—	В	С	С	
Paragrass	В	С	С	С	
Tornedograss	S	_	PC	C	

9.4 MISCELLANEOUS TREE FOOD CROPS

LABELED CROPS: Cactus (fruits and pads),	Palm (heart, leaves), Palm (oil)	
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0

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LABELED CROPS: Pine	, Poplar, Eu	icalyptus, Christmas	Trees, Other	Non-food Tree Crops
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TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0
Directed sprays	This product may be used as a post directed spray and	THIS PRODUCT IS NOT LABELED FOR USE AS AN
Spot treatments	spot treatment around established poplar, eucalyptus,	OVER-THE-TOP BROADCAST SPRAY IN CHRISTMAS
Wiper applications	Christmas trees and other non-food tree crops.	TREES AND OTHER PINE TREES.
	PRECAUTION: Care must be exercised to avoid contact	
	of spray drift or mist with foliage or green bark of	
	established Christmas trees and other pine trees.	
	Desirable plants may be protected from the spray solution	
	by using shields or coverings made of cardboard or	
	other impermeable material.	
Site preparation	This product may be used prior to planting non-food	Precautions must be taken to protect non-target plants
	tree crops.	during site preparations applications.
Directed spray	This product can be used around established	AVOID HERBICIDE CONTACT WITH DESIRABLE
(Eucalyptus and Poplar production)	eucalyptus and poplar trees to control undesirable	VEGETATION.
	vegetation.	
	Use a 1 to 2% spray solution to control herbaceous	
	weeds in eucalyptus farms. Use a 2% spray solution for	
	control of undesirable woody brush and trees.	
	For "hard-to-control" weeds, use a 5 to 10% spray	
	solution. Avoid contact of spray, drift, or mist with foliage,	
	green bark or non-woody surface roots of plants.	
Wiper Application	This product may be used through wick or other suitable	
(Eucalyptus and Poplar production)	wiper applicators for control or partial control of grass	
	and broadleaf weeds listed in Annual Weeds and	
	Perennial Weeds, Sections 14.0 and 15.0.	
	For wick applicators, mix 1.0 gal of this product with	
	2.0 gal water to make a 33% solution. For wiper systems	
	that can handle thicker solutions, such as force-fed	
	systems, a 33 to 100% solution may be used. For best	
	results, ensure that the herbicide solution is allowed to contact the maximum amount of leaf surface. As weed	
	densities increase, decrease equipment speed to allow sufficient herbicide flow to wet all weed surfaces contacted.	
	Weeds not contacted will be unaffected.	

9.6 POME FRUIT

LARFIED CROPS: Apple Crahapple Loquat Mayhaw Pear (including Oriental pear) Quince

LABELED CRUPS: Apple, Crabappie, Loquat,	Maynaw, Pear (including Oriental pear), Quince	
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0
		Pre-harvest Interval (PHI): Allow a minimum of 1 day
		between last application and harvest in pome fruits.

9.7 STONE FRUIT LABELED CROPS: Apricot, Cherry (Sweet, Tart), Nectarine, Olive, Peach, Pear, Plum/Prune (All types), Plumcot

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0
, , , , , , , , , , , , , , , , , , ,		Pre-harvest Interval (PHI): Allow a minimum of 17 days between last application and harvest in stone fruit crops. For olive groves, apply as directed sprays only.

Restrictions on application equipment:

For cherries, any application equipment listed in this section may be used in all states.

Any application equipment listed in this section may be used in apricots, nectarines, peaches and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, North Dakota, Oklahoma, Oregon, Texas, Utah, and Washington, except for peaches grown in the states specified in the following paragraph. In all other states, use wiper equipment only.

For peaches grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee only, apply with a shielded boom spray or shielded wiper applicator, which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low hanging limbs at least 10 days prior to application. Avoid application near trees with recent pruning wounds or other mechanical injury. Apply only near trees that have been planted in the orchard for 2 or more years.

EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED.

9.8 TREE NUTS

LABELED CROPS: Almond, Beechnut, Beteinut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Coconut, Filbert (Hazelnut), Hickory nut, Macadamia, Pecan, Pine nut, Pistachio, Walnut (Black, English)

Pille Hut, Pistacillo, Walliut (Diack, Eligiisii)		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0
		Pre-harvest Interval (PHI): Allow a minimum of 3 days between last application and harvest of tree nuts, except coconut.
		Allow 14 days between application and harvest in coconuts

9.9 TROPICAL CROPS AND SUBTROPICAL TREES AND FRUIT

LABELED CROPS: Ambarella, Atemoya, Avocado, Banana, Barbados Cherry (acerola), Biriba, Blimbe, Breadfruit, Cacao (cocoa) bean, Canistel, Carambola (starfruit), Cherimoya, Coffee, Custard apple, Dates, Durian, Feijoa, Figs, Governor's plum, Guava, Ilama, Imbe, Imbu, Jaboticaba, Jackfruit, Longan, Lychee, Mamey apple, Mango, Mangosteen, Marmaladebox (genip), Mountain papaya, Papaya, Payayaw, Plantain, Persimon, Pomegranate, Pulasan, Rambutan, Rose apple, Sapodilla, Sapote (hlack mamey white) Spanish lime Sourson, Star apple, Sugar apple, Surinam cherry. Tamarind, Tea, Ti (roots and leaves), Wax jambu

(black, mamey, white), Spanish lime, Soursop, Star apple, Sugar apple, Surinam cherry, Tamarind, Tea, Ti (roots and leaves), Wax jambu		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0
	This product may be applied for weed control or for site preparation prior to transplanting crops listed in this section. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.	Pre-harvest Interval (PHI): Allow a minimum of 1 day between last application and harvest of banana, guava, papaya and plantain crops. Allow a minimum of 14 days between last application and harvest of any other tropical or subtropical tree fruit. Allow a minimum of 28 days between last application and harvest in coffee crops.
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0
Bananacide (Banana only)	This product may be used to destroy banana plants infected with the Banana bunchy top virus as well as non-infected banana plants to establish a disease free buffer around plantations. Remove all fruit from the plants within the treatment area prior to treatment. Inject 1/25 fl oz (1.0 mL) of this product's concentrate/2 to 3 inches of pseudostem diameter. Make the injection at least 1 ft above ground, except for very small plants, which should be injected vertically into the top. Any subsequent regrowth must also be destroyed. All plants and mats (or units) adjacent (within a 4-ft radius) to a treated mat shallbe mechanically destroyed. For control of the Banana bunchy top virus, it is critical that the grower follow a strict control program involving monitoring for diseased plants, spraying to control the	Do not apply more than 1/2 fl oz (15.0 mL) of this product's concentrate/mat (or units). Remove all fruit from plants and mats (or units) prior to treatment. Do not harvest any fruit or plant materials from treated mats (or units) following injection. Do not allow livestock to consume treated materials. Following transplant of new banana plants into treated areas, allow plants to become established for 3 months before applying this product for weed control.
	aphid vector, and destruction of all infected mats (or	Cont'd. next page

O O Tropical Crops	and Subtronical Trees	and Eruit cont'd .

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
	units). An infected plant may not show symptoms of the	
	disease for up to 125 days, therefore it is critical that the	
	entire mat (or unit) containing the diseased plant be	
	destroyed immediately.	

9.10 VINE CROPS

LABELED CROPS: Grapes (raisin, table, wine), Hops, Kiwi, Passion fruit		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
See Types of Applications in Section 9.0	See Use Directions in Section 9.0	See Restrictions in Section 9.0
		Pre-harvest Interval (PHI): Allow a minimum of 14 days between last application and harvest. Do not use selective equipment in kiwi.
	or winer equinment	

10.0 PASTURE, GRASSES, FORAGE LEGUMES AND RANGELANDS

10.1 ALFALFA, CLOVER AND OTHER FORAGE LEGUMES

LABELED CROPS: Alfalfa, Clover, Kenaf, Kudzu, Lespedeza, Leucaena, Lupin, Sainfoin, Trefoil, Velvet bean, Vetch (all types)			
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
Preplant Preemergence	This product may be applied before, during or after planting crops listed.	If a single application is made at rates of 2.0 qt/A or less, no waiting period between treatment and feeding or grazing	
At-planting	Make applications according to the rates listed in Annual Weeds, Perennial Weeds, and Woody Brush and Trees rate tables, Sections 14.0, 15.0 and 16.0. Applications must be made prior to emergence of the crop.	is required. If application rates greater than 2.0 qt/A are made, remove domestic livestock before application. Pre-harvest Interval (PHI): Wait 8 wks after application before grazing or harvesting.	
Spot treatment	This product may be applied as a spot treatment in alfalfa	For spot treatment and wiper applications, apply in areas	
Over-the-top	or clover. This product may be applied with wiper	where the movement of domestic livestock can be	
Wiper applications (Alfalfa and Clover only)	applicators to control or suppress the weeds listed in Wiper Applicators, Section 7.5.	controlled. No more than 1/10 of any acre can be treated at one time.	
	Applications may be made in the same area at 30-day intervals.	Pre-harvest Interval (PHI): Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.	
Dormant (Alfalfa only)	This product will control or suppress many weeds including Downy brome, Cheatgrass and Quackgrass, in dormant aflatfa. Apply 8.0 to 12.0 oz/A of this product. Apply in the spring to alfalfa that is dormant. Applications should be made after spring temperatures have warmed enough to encourage resumption of weed growth, but prior to initiation of trifoliate leaf expansion of the alfalfa. Applications made after expansion of the first trifoliate leaf of the alfalfa will cause growth reduction and reduced crop yield. Slight discoloration of the alfalfa may occur, but the alfalfa will regreen and regrow under moist soil conditions as effects of this product wear off. PRECAUTION: Application of this product can cause crop injury. Any crop injury is the sole responsibility of the application.	Do not use ammonium sulfate when spraying dormant alfalfa with Mad Dog Plus. Do not use this product where a slight yield reduction in the first cutting of alfalfa cannot be tolerated. Do not make more than 1 application/yr. Pre-harvest Interval (PHI): Allow 36 hours after application before grazing livestock or harvesting.	

10.1 Alfalfa, Clover and Other Forage Legumes cont'd.:

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Preharvest (Alfalfa only)	This product may be used in declining alfalfa stands or	Make only 1 application to an existing stand of alfalfa/yr.
	any stand of alfalfa where crop destruction is acceptable.	Do not apply more than 2.0 qt of this product/A as a
	This application will severely injure or destroy the stand	pre-harvest treatment.
	of alfalfa. This product will control annual and perennial	Do not use for alfalfa grown for seed, as a reduction in
	weeds including Quackgrass, when applied prior to the	germination or vigor may occur.
	harvest of alfalfa.	Pre-harvest Interval (PHI): The treated crop and weeds
	Use up to 1.0 qt of this product/A. Applications may be	can be harvested and fed to livestock after 36 hr.
	made at any time of the year. For control of Quackgrass,	
	apply in the spring, late summer or fall when Quackgrass	
	is actively growing. Treatments for Quackgrass must be	
	followed by deep tillage for complete control.	
Renovation	This product may be applied as a broadcast spray to	Remove domestic livestock before application.
	existing stands of alfalfa, clover, and other labeled forage	Pre-harvest Interval (PHI): If application rates of 2.0 qt/A
	legumes. Labeled crops may be planted into the treated	or less are used, wait 36 hr after application before grazing
	area.	or harvesting. If application rates greater than 2.0 qt/A
	Make applications according to the rates listed in Annual	are used, wait 8 wks after application before grazing or
	Weeds, Perennial Weeds, and Woody Brush and Trees	harvesting.
	rate tables, Sections 14.0, 15.0 and 16.0.	

10.2 CONSERVATION RESERVE PROGRAM (CRP)

LABELED CROPS: Conservation Reserve Program (CRP) Acres		
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Renovation (rotating out of CRP) Site preparation	This product may be used to prepare CRP land for crop production. Refer to Federal, State or local use guides for CRP renovation recommendations. Make applications according to the rates listed in Annual Weeds, Perennial Weeds, and Woody Brush and Trees rate tables, Sections 14.0, 15.0 and 16.0. For any crop not listed in the crops sections of this label, applications must be made at least 30 days prior to planting. PRECAUTION: Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant.	Do not apply more than 3.0 qt/A/yr onto CRP grasses.
Postemergence Weed control in dormant acres Over-the-top Wiper application	This product may be used to suppress competitive growth and seed production of undesirable vegetation in CRP acres. Such applications may be made with wiper application equipment or as a broadcast or spot treatment to dormant CRP grasses. For selective applications with broadcast spray equipment, apply 12.0 to 16.0 fl oz of this product/A in early spring before desirable CRP grasses, such as crested and tall wheatgrass, break dormancy and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy.	Do not apply more than 3.0 qt/A year onto CRP grasses.

10.3 GRASS or TURFGRASS SEED PRODUCTION

LABELED CROPS: Any grass (Gramineae TYPES OF APPLICATIONS	family), except corn, sorghum, sugarcane and those listed under USE DIRECTIONS	er Cereal Crops in Section 8.1.
Preplant Preemergence Renovation Site preparation	This product may be applied before, during, or after planting or for renovation of turf or forage grass areas grown for seed production. Make applications according to the rates listed in Annual Weeds, Perennial Weeds, and Woody Brush and Trees rate tables, Sections 14.0, 15.0 and 16.0. Applications must be made prior to the emergence of the crop to avoid injury. For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as Bermudagrass, summer or fall applications provide best control.	Do not disturb soil or underground plant parts before treatment. Delay tillage or renovation techniques such as vertical mowing, coring, or slicing for 7 days after application to allow proper translocation into underground plant parts. If application rates total 3.0 qt/A or less, no waiting period between treatment and feeding or livestock grazing is required. Pre-harvest Interval (PHI): If the rate is greater than 3.0 qt/A, remove domestic livestock and wait 8 wks following application before grazing or harvesting.
Shielded Sprayer	Apply 1.0 to 3.0 qt of this product as a broadcast spray in 10.0 to 20.0 gal of total spray volume/A. Uniform planting in straight rows aid in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by or through the protective shields. PRECAUTION: Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Grower assumes all responsibility for crop losses from misapplication.	
Over-the-top Wiper Applications	This product may be applied with wiper applicators to control or suppress the weeds listed under Wiper Applications in Section 7.5. Weeds should be a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when weed height varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. Better results may be obtained if 2 applications are made in opposite directions.	Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators must be adjusted so that the wiper contact point is at least 2 inches above the desirable vegetation.
Spot treatments	Use a 1 to 1.5% solution. Apply this product prior to heading of grasses.	The crop receiving the spray in the treated area will be killed. Avoid drift or spray outside of the target area for the same reason.
Creating rows in Annual ryegrass	Use 16.0 to 32.0 fl oz of this product/A. Use the higher rate when the ryegrass is greater than 6 inches tall. Best results are obtained when applications are made before the ryegrass reaches 6 inches in height. PRECAUTION: Set nozzle height to allow the establishment of the desired row spacing while preventing spray droplets, spray fines, or drift to contact the ryegrass plants not treated. Use of low-pressure nozzles, or drop nozzles designed to target the application over a narrow band are recommended. Grower assumes all responsibility for crop losses from misapplication.	

10.4 PASTURES

LABELED CROPS: Any grass (Gramineae family), except corn, sorghum, sugarcane and those listed under Cereal Crops in Section 8.1, including Bahiagrass, Bermudagrass, Bluegrass, Brome, Fescue, Guineagrass, Crchardgrass, Pangola grass, Ryegrass, Timothy, Wheatgrass

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Spot treatment	This product may be applied as a spot treatment or with	For spot treatments or wiper application methods using
Over-the-top	wiper applicators in pastures.	rates of 3.0 qt/A or less, the entire field or any portion of it
Wiper Applications	Applications may be made in the same area at 30-day	may be treated. When spot treatment or wiper applications
	intervals.	are made using rates above 3.0 qt/A, no more the 10% of
		the total pasture may be treated at any one time.
		Pre-harvest Interval (PHI): Remove domestic livestock
		before application and wait 7 days after application before
		grazing livestock or harvesting.
Preplant	This product may be applied prior to planting or	If application rates total 3.0 qt/A or less, no waiting period
Preemergence	emergence of forage grasses. In addition this product	between treatment and feeding or livestock grazing is
Pasture Renovation	may be used to control perennial pasture species listed on	required.
Stand Removal	this label prior to re-planting.	Pre-harvest Interval (PHI): If the rate is greater than
	Make applications according to the rates listed in Annual	3.0 qt/A, remove domestic livestock and wait 8 wks
	Weeds, Perennial Weeds, and Woody Brush and Trees	following application before grazing or harvesting.
	rate tables, Sections 14.0, 15.0 and 16.0.	
Chemical mowing (Bermudagrass)	This product may be applied at 16.0 fl oz/A to control the	Labeled application rates totaling 3.0 qt/A or less do not
pastures prior to spring growth or	weeds listed below and most other winter annual grass	require a waiting period between treatment and feeding or
immediately after first cutting	and broadleaf weeds in established coastal bermudagrass	livestock grazing.
	pastures.	NOTE: ONLY 1 APPLICATION/YR MAY BE MADE TO ANY 1
	Annual bluegrass, Cheat, Crabgrass, Henbit, Johnsongrass	
	seedling, Little barley, Oats, Ryegrass, Sandbur field,	AN APPLICATION FOLLOWING THE FIRST CUTTING MAY
	Wheat, Wild mustard	NOT BE MADE ON THE FIELD DURING THE SAME YEAR.
	Applications prior to spring growth: Apply this product in	
	the late winter or early spring but before new coastal	
	bermudagrass growth begins in the spring. Applications to	
	new growth can damage the bermudagrass.	
	Applications following the first cutting: Apply this	
	product after the first bermudagrass cutting when the	
	bermudagrass has not yet begun to regrow.	
	Applications made after regrowth has begun can damage	
	the bermudagrass.	

Colorado, Idaho, Iowa, Kansas, Montana, Nebraska, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming Only Bromus Species: This product may be used to treat Cheatgrass (Bromus secalinus), Downy brome (Bromus tectorum), Japanese brome (Bromus japonicus), and Soft chess (Bromus mollis) found in industrial, rangeland and pasture sites. Apply 8.0 to 16.0 fluid ounces of product per acre on a broadcast basis. For best results, treatment should coincide with early seedhead emergence of the most mature plants. Delaying the application until this growth stage will maximize the emergence of other weedy grass flushes. Applications should be made to the same site each year until seed banks are depleted and the desirable perennial grasses are able to become reestablished on the site.

Medusahead: To treat Medusahead, apply 16.0 fluid ounces of this product per acre as soon as plants are actively growing, and prior to the 4-leaf stage. Applications may be made in the fall or spring.

Application Equipment and Techniques: Applications may be made using ground or aerial equipment. Aerial applications for these uses may be made using fixed wing or helicopter equipment. For aerial applications, apply in 2.0 to 10.0 gallons of water per acre. For applications using ground equipment, apply in 10.0 to 20.0 gallons of water per acre.

When applied as directed there are no grazing restrictions.

10.5 RANGELANDS LABELED CROPS: Rangeland (Perennial cool- and warm-season grass rangelands)

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Postemergence	This product will control or suppress many annual weeds growing in perennial cool- and warm-season grass rangelands.	Do not use ammonium sulfate when spraying rangeland grasses with this product. Do not apply more than 3.0 qt/A/yr.
	Preventing viable seed production is key to the successful control and invasion of annual grassy weeds in rangelands. Follow-up applications in sequential years should eliminate most of the viable seeds. Grazing of treated areas should be delayed to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition. Apply 12.0 to 16.0 fl oz/A to control or suppress many annual weeds growing in perennial cool and warm-season grass rangelands including Cereal rye, Cheatgrass, Downy brome and Jointed goatgrass. Apply when most mature brome plants are in early flower and before the plants, including seedheads, turn color. Allowing for secondary weed flushes to occur in the spring following rain events further depletes the seed reserve and encourages perennial grass conversion on weedy sites. Fall applications are possible, and recommended, where spring moisture is usually limited and fall germination allows for good weed growth. For Medusahead, apply 16.0 fl oz/A at the 3-leaf stage. Delaying applications beyond this stage will result in eliminating the thatch layer produced by slow decaying culms prior to application. Allow new growth to occur before spraying after a burn.	Slight discoloration of the desirable grasses may occur, but they will regreen and regrow under moist soil conditions as effects of this product wear off.

10.6 TURFGRASS SOD PRODUCTION

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Preplant Preemergence Renovation Site Preparation	This product controls most existing vegetation prior to renovating turf grass areas or establishing turfgrass grown for sod. Broadcast of hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested. For maximum control of existing vegetation, delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses such as bermudagrass, summer or fall applications provide the best control. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth or good interception of the spray. Make applications according to the rates listed in Annual Weeds, Perennial Weeds, and Woody Brush and Trees rate tables, Sections 14.0, 15.0 and 16.0. Desirable turfgrasses may be planted following the above procedures.	Do not disturb soil or underground plant before treatment. Delay tillage or renovation techniques such as vertical mowing, coring, or slicing for 7 days after application to allow translocation into underground plant parts.
Spot treatment	Hand-held equipment may be used for spot treatment of unwanted vegetation growing in existing turfgrass.	

10.6 Turfgrass Sod Production cont'd.:

TYPES OF APPLICATIONS

Turfgrass renovation for sod production

USE DIRECTIONS

This product controls most existing vegetation prior to renovating turforass areas or establishing turforass grown for seed or sod. For maximum control of existing vegetation, delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses such as bermudagrass, summer or fall applications provide the best control. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular moving to allow sufficient growth for good interception of the spray Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow translocation into underground plant parts.

Desirable turfgrass may be planted following the above procedures

Hand-held equipment may be used for spot treatment of unwanted vegetation growing in existing turfgrass. Broadcast or hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested

RESTRICTIONS

Do not feed or graze turfgrass grown for seed or sod production for 8 wks following application.

10.7 RELEASE OF BERMUDAGRASS OR BAHIAGRASS Dormant applications

This product may be used to control or partially control many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahiagrass. Treat only when turf is dormant and prior to spring greenup. This product may also be tank mixed with Oust for residual control. Tank mixtures of this product with Oust may delay greenup.

For best results on winter annuals, treat when plants are in an early growth stage (below 6 inches in height) after most have germinated. For best results on tall fescue, treat when fescue is at or beyond the 4- to 6-leaf stage.

Apply 8.0 to 64.0 fluid ounces of this product per acre alone or in a tank mixture with 0.25 to 1.0 ounce per acre of Oust. Apply the labeled rates in 10.0 to 40.0 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. To avoid delays in greenup and minimize injury, add no more than 1.0 ounce of Oust per acre on bermudagrass and no more than 0.5 ounce of Oust per acre on bahiagrass and avoid treatments when these grasses are in a semi-dormant condition.

Actively Growing Bermudagrass

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 1.0 to 3.0 pints of this product in 10.0 to 40.0 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

Bahiagrass Bluestem, silver Fescue, tall Johnsongrass Trumpetcreeper Vaseygrass

This product may be tank mixed with Oust. If tank mixed, use no more than 1.0 to 2.0 pints of this product with 1.0 to 2.0 ounces of Oust per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

Bahiagrass Bluestem, silver Broomsedge Dallisgrass Dock, curly Dogfennel Fescue, tall Johnsongrass Poorjoe Trumpetcreeper Vaseygrass Vervain, blue

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Repeat applications of the tank mix in the same season are not recommended, since severe injury may occur.

Actively Growing Bahiagrass

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 6.0 fluid ounces of this product in 10.0 to 40.0 gallons of water per acre. Apply 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 4.0 fluid ounces of this product per acre, followed by an application of 2.0 to 4.0 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

A tank mixture of this product plus Oust may be used. Apply 6.0 fluid ounces of this product plus 0.25 ounce of Oust per acre 1 to 2 weeks following an initial soring mowing. Make only 1 application per year.

11.0 ROUNDUP READY CROPS

The following instructions or those separately published on Loveland Products, Inc. supplemental labeling include all applications which can be made onto the specified Roundup Ready crops during the complete cropping season. DO NOT combine these instructions with other recommendations made for crop varieties that do not contain the Roundup Ready gene in Annual and Perennial Crops, Section 8.0.

THIS PRODUCT IS TO BE USED FOR POSTEMERGENCE APPLICATION ONLY ON CROP VARIETIES DESIGNATED AS CONTAINING A ROUNDUP READY GENE OR GLYPHOSATE TOLERANT GENE.

Applying this product to crop varieties that are not designated as glyphosate tolerant will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops or any desirable plants that do not contain a Roundup Ready or glyphosate-tolerant gene, since severe injury or destruction will result.

The Roundup Ready designation indicates that the crop variety contains a patented gene that provides tolerance to this product. Information on Roundup Ready crop varieties may be obtained from your seed supplier. Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier.

Note: Roundup Ready seed, and the method of selectivity controlling weeds using glyphosate on a Roundup Ready crop, are protected under several U.S. Patents.

A license to use Roundup Ready seed must be obtained prior to use.

For ground applications with broadcast equipment, apply this product in 5.0 to 20.0 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment use flat spray nozzles. Check for even distribution of spray droplets.

For aerial applications apply this product in 3.0 to 15.0 gallons of water per acre. See Application Equipment and Techniques, Section 7.0, for procedures to avoid spray drift that may cause injury to any vegetation not intended for treatment. Use of appropriate buffer zones will help prevent injury to adjacent vegetation.

ATTENTION: AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN A GLYPHOSATE TOLERANT GENE.

See Mixing and Application Equipment and Techniques, Sections 6.0 and 7.0, for additional directions and restrictions on the application of this product.

Tank mixtures with other herbicides, insecticides, fungicides, micronutrients or fertilizers may result in reduced weed control or crop injury and are NOT recommended for over-the-top applications of this product unless otherwise noted in this product label, supplemental labeling or fact sheets published separately by Loveland Products. Inc.

Enhanced product performance may be obtained with use of Loveland Products, Inc. Leci-Tech® adjuvants. Consult with your local Loveland Products, Inc. representative for advice on specific product selection.

Ammonium sulfate may be mixed with this product for applications to Roundup Ready crops. Refer to Mixing, Sections 6.0, for use directions for ammonium sulfate.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product. Follow the cleaning procedures specified on the label of the product(s) previously used. THOROUGHLY CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL CONTAMINATION FROM OTHER HERBICIDES PRIOR TO MIXING AND APPLYING THIS PRODUICT.

Note: The following use directions are based on a clean start at planting by using a burndown application or tillage to control existing weeds before crop emergence. In no-till and stale seedbed systems, use a preplant burn-down treatment of this product to control existing weeds prior to crop emergence. Some weeds, such as Annual morningglory, Black nightshade, Broadleaf signalgrass, Burcucumber, Giant ragweed, Sandbur, Shattercane, Sicklepod, Texas panicum, Wild proso millet and Woolly cupgrass with multiple germination times or suppressed (stunted) weeds may require a second application of this product for complete control. The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product.

11.1 ROUNDUP READY ALFALFA

FOR POSTEMERGENCE APPLICATION ONLY ON ALFALFA VARIETIES DESIGNATED AS CONTAINING A ROUNDUP READY GENE.

The Roundup Ready designation indicates that the alfalfa contains a patented gene, which provides tolerance to this product. Information on Roundup Ready alfalfa varieties may be obtained from your seed supplier or Loveland Products, Inc. representative. Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier.

TYPES OF APPLICATIONS

Preplant
At-planting
Preemergence
Postemergence

USE DIRECTIONS

This product will control many troublesome emerged weeds with over-the-top applications in Roundup Ready alfalfa.

For ground applications with broadcast equipment, apply this product in 3.0 to 40.0 gal of spray solution/A. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

For aerial application: Use the labeled rates of this product in 3.0 to 15.0 gal of spray solution/A.

A. New Stand Establishment (seeding year)
Prior to first cutting during new stand establishment:

RESTRICTIONS

DO NOT EXCEED 2.0 QT OF THIS PRODUCT/A WHEN MAKING APPLICATIONS BY AIR.

Any single over-the-top application of this product must not exceed 2.0 qt (64.0 fl oz)/A.

Sequential applications of this production must be at least 7 days apart.

The combined total/yr for all in-crop applications in newly established and established stands must not exceed 6.0 qt (192 fl oz)/A.

Remove domestic livestock before application and wait a minimum of 5 days after last application before grazing, or cutting and feeding of Roundup Ready alfalfa forage and hay.

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11.1 Roundup Ready Alfalfa cont'd.: TYPES OF APPLICATIONS HISE DIRECTIONS RESTRICTIONS Preplant From emergence up to 4 trifoliate leaves: 2.0 gt/A At-planting From 5 trifoliate leaves up to 5 days before first cutting: Preemergence Postemeraence cont'd After first cutting in newly established stands: In-crop application/cutting, up to 5 days before cutting: 2.0 gt/A B. Established Stands (non-seeding year) In-Crop applications/cutting, up to 5 days before cutting: During stand establishment, due to the biology and breeding constraints of alfalfa, up to 10% of the seedlings may not contain the Roundup Ready gene and will not survive after the first application of this product. To eliminate the undesirable effects of stand gaps created by the loss of plants not containing a Roundup Ready gene, a single application of at least 1.0 gt/A of this product should be applied at or before the 3- to 4-trifoliate growth stage. In both newly seeded and established stands, in order to maximize yield and quality potential of forage and hav, applications of this product should be made after weeds have emerged but before alfalfa growth or re-growth interferes with application spray coverage of the target weeds. In addition to those weeds listed in the Mad Dog Plus herbicide label booklet, this product will suppress or control the parasitic weed, Dodder (Cuscuta spp.) in

Over-the-top applications This product may be applied postemergence to Roundup Sequential applications of this production must be at least Ready alfalfa from emergence until 5 days prior to cutting. 7 days apart. Any single over-the-top applications of this product must not exceed 2.0 at/A. ATTENTION: Where Roundup Ready alfalfa is grown with a companion or cover crop, or is over seeded with a second species, over-the-top applications of this product will eliminate the non-Roundup Ready species. Tank mixtures with other herbicides, insecticides, or fungicides may result in crop injury or reduced week control and are NOT recommended for over-the-top

Roundup Ready alfalfa. Repeat applications may be

necessary for complete control.

applications of this product. MAXIMUM ALLOWABLE APPLICATION RATES Combined total per year for all applications, including preplant during year of establishment 7.75 qt/A 6.0 qt/A Combined total per year for in-crop applications for newly established and established stands Preplant, At-planting and Preemergence single applications 2.0 at/A

11.2 ROUNDUP READY CANOLA (Spring Varieties)

LABELED CROPS: Roundup Ready spring canola is defined as those Roundup Ready canola varieties that are seeded in the spring and harvested in the fall and do not enter a winter dormancy period.

DO NOT USE THIS PRODUCT ON SPRING CANOLA WITH A ROUNDUP READY GENE PLANTED IN THE FOLLOWING STATES: ALABAMA, DELAWARE, FLORIDA, GEOR-GIA, KENTUCKY, MARYLAND, NEW JERSEY, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA AND WEST VIRGINIA EXCEPT FOR USES IN WILDLIFE FOOD PLOTS THAT WILL NOT BE FOR HUMAN OR LIVESTOCK FOOD.

FOOD PLOTS THAT WILL NOT BE FOR		1
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Preplant	This product may be applied before, during or after	Maximum quantity of this product that may be applied for
At-planting	planting Roundup Ready spring canola.	all preplant, at-planting and preemergence applications
Preemergence		combined is 2.0 qt/season.
Postemergence (in-crop)	This product may be applied postemergence to Roundup	No more than 2 in-crop (over-the-top) broadcast
	Ready spring canola from emergence through the 6-leaf	applications may be made from crop emergence through
	stage of development. Applications made during bolting	the 6-leaf stage of development and the total of all in-crop
	or flowering may result in crop injury and yield loss.	applications must not exceed 22.0 fl oz of this product/A.
	To maximize yield potential, make applications early to	Pre-harvest Interval (PHI): Allow a minimum of 60 days
	eliminate competing weeds.	between last application and canola harvest.
	Single Application - Apply 11.0 to 16.0 fl oz of this	
	product/A no later than the 6-leaf stage for the control of	
	annual weeds. Avoid overlapping applications as this may	
	result in temporary yellowing, delayed flowering, and or	
	growth reduction. Similar crop injury may result when	
	applications of more than 11.0 fl oz/A are applied after the	
	4-leaf stage.	
	Sequential Application - Apply 11.0 fl oz of this product/A	
	to 1- to 3-leaf canola followed by a sequential application	
	at a minimum interval of 10 days, but no later than the	
	6-leaf stage.	
	Sequential applications are recommended for early	
	emerged annual weeds and perennial weeds such as	
	Canada thistle and Quackgrass, or when multiple	
	applications are needed for adequate weed control.	

Enhanced product performance may be obtained with use of Loveland Products, Inc. Leci-Tech adjuvants. Consult with your local Loveland Products, Inc. representative for advice on specific product selection.

for advice on specific product selection.			
MAXIMUM ALLOWABLE APPLICATION RATES			
Total of all preplant, at-planting, preemergence applications 2.0 qt/A			
Total of all in-crop applications from emergence to 6-leaf stage	1.0 gt/A		

11.3 ROUNDUP READY CANOLA (Fall and Winter Varieties)

LABELED CROPS: Roundup Ready winter canola is defined as those Roundup Ready canola varieties that are seeded in early fall and harvested the following spring or summer. Winter canola varieties are intended to enter a cold period dormancy in the winter.

of Summer, whiter candia varieties are interfaced to effici a cold period dominancy in the whiter.			
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
Preplant	This product may be applied before, during or after	Maximum quantity of this product that may be applied for	
At-planting	planting Roundup Ready winter canola.	all preplant, at-planting and preemergence applications	
Preemergence		combined is 2.0 qt/A/season.	
Postemergence (in-crop)	This product may be applied to Roundup Ready winter	No more than 2 over-the-top broadcast applications may	
	canola varieties from emergence to canopy closure in the	be made from crop emergence up to the onset of bolting,	
	fall and prior to bolting in the spring. Applications made	and the total in-crop application must not exceed 2.0 qt	
	during or after bolting may result in crop injury and yield	of this product/A.	
	loss. To maximize yield potential, make applications early to eliminate competing weeds. Some weeds with multiple germination times, or	Applications of greater than 24.0 fl oz/A prior to the 6-leaf stage may result in reduced crop growth in the fall. Pre-harvest Interval (PHI): Allow a minimum of 60 days	
	suppressed (stunted) weeds, or weeds that have over-	between last application and harvest of canola grain.	

Cont'd. next page

11.3 Roundup Ready Canola cont'd .:

TYPES OF APPLICATIONS HISE DIRECTIONS wintered may require sequential applications of this Postemergence (in-crop) cont'd product for control. The second application should be made after some re-growth has occurred and at least 60 days after a previous application of this product. Single Application - Apply 22.0 to 32.0 fl oz of this product/A in the fall. Applications in the fall should be made when weeds are small and actively growing. Use the higher rate in the labeled range when weed densities are high, when weeds have overwintered or when weeds become large and well-established. Applications of greater than 16.0 fl oz/A prior to the 6-leaf stage may result in reduced crop growth in the fall. Avoid overlaps, Spray overlaps may result in temporary vellowing and/or growth

Sequential Applications - Apply 16.0 to 32.0 fl oz of this product/A to 2-leaf or larger canola in the fall, followed by a sequential application at the same rate and at a minimum interval of 60 days, but before bolting in the spring. Sequential applications are recommended for early emerging annual weeds and winter emerging weeds such as Downy brome, Jointed goatgrass and Ryegrass, and for weeds that have overwintered. This product will control or suppress most perennial weeds. For some perennial weeds, sequential applications may be required to reduce competition with the crow

RESTRICTIONS

No waiting period is required between application and open grazing of livestock.

Enhanced product performance may be obtained with use of Loveland Products, Inc. Leci-Tech adjuvants. Consult with your local Loveland Products, Inc. representative for advice on specific product selection.

MAXIMIIM ALLOWARI E APPLICATION RATES

Total of all preplant, at-planting, preemergence applications	2.0 qt/A	
Total of all in-crop applications from emergence to canopy closure or prior to bolting in the spring	2.0 qt/A	

11.4 NUUNDUF NEADT	CURIN
TYPES OF APPLICATION	IS

4 DOUNDUD DEADY CODE

Preplant Preemergence At-planting

USE DIRECTIONS

This product may be applied alone or in a tank mixture before, during or after planting corn.

Tank Mixtures: This product may be tank mixed with Bullet, Degree, Degree Xtra, Harness, Harness Xtra, Harness Xtra 5.6L, Lariat, Lasso, or Micro-Tech at 50 to 100% of labeled rate. Refer to the specific product label and observe all precautions and limitations on the label for any preemergence herbicide application, including application timing restrictions, soil restrictions, minimum re-cropping interval and rotational guidelines. The more restrictive requirements apply.

Note: For maximum weed control, a postemergence (in-crop) application of this product should be applied following the use of less than labeled rates of the preemergence residual products listed above. Make applications according to the rates listed in Annual Weeds, Perennial Weeds, and Woody Brush and Trees

rate tables. Sections 14.0, 15.0 and 16.0.

RESTRICTIONS

Applying this product to crop varieties that are not designated as glyphosate tolerant will result in severe crop injury and yield loss. Do not allow contact with foliage, green stems, or fruit of crops, or any desirable plants that do not contain a Roundup Ready or glyphosate-tolerant gene, since severe injury or destruction will result. AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN A GLYPHOSATE TOLERANT GENE. See Mixing and Application Equipment and Techniques, Sections 6.0 and 7.0, for additional directions and restrictions on the application of this product.

11 4	Roundup	Ready	Corn	cont'd .

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Postemergence (in-crop)	When applied as directed, this product controls labeled	See Roundup Ready Crops, Section 11.0, for precautionary
	annual grass and broadleaf weeds in Roundup Ready corn.	
	Many Perennial grasses and broadleaf weeds will be	Single in-crop applications of this product are not to
	controlled or suppressed with one or more application of	exceed 1.5 qt/A.
	this product. The post-emergent application of 0.75 to 1.5	
	qt/A of this product should be made before the weeds reach a height and/or density that the weeds	applications from emergence through the 48-inch stage is 3.0 qt/A.
	become competitive with the crop, generally 4-inch tall weeds or less.	Allow a minimum of 10 days between in-crop applications of this product.
	This product may be applied over-the-top to Roundup	Pre-harvest Interval (PHI): Allow a minimum of 50 days
	Ready corn from emergence through the V8 stage (8	between application of this product and harvest of corn forage.
	leaves with collars) or until corn height reaches 48 inches, whichever comes first.	
	Use drop nozzles when corn height is 24 to 30 inches	
	(free standing), for optimum spray coverage and weed	
	control.	
	For corn heights 30 to 48 inches (free standing), apply this	
	product ONLY using ground application equipment with	
	drop nozzles adjusted to avoid spraying into the whorls of	
	the corn plants.	
	If product is applied to whorls of corn, plant injury and	
	yield reduction can occur.	
	Maximum single in-crop application rate of this product up	
	to 48-inch corn is 48.0 fl oz per/A.	
	Tank Mixtures: This product may be applied in tank mixture	
	with Bullet, Degree, Degree Xtra, Harness, Harness Xtra,	
	Harness Xtra 5.6L, and Micro-Tech at 50 to 100% of	
	labeled rate. This product may be applied in tank mixture	
	with Permit and atrazine at labeled rates. Refer to the	
	specific product label and observe all precautions and	
	limitations on the label for all products used in tank	
	mixtures, including application timing restrictions, soil restrictions, minimum re-cropping interval and rotational	
	quidelines. The more restrictive requirements apply.	
	Tank Mix Partner Maximum Height of Corn	
	Degree 11 inches	†
	Degree Xtra	
	Harness	
	Harness Xtra	
	Harness Xtra 5.6L	
	Bullet* 5 inches	†
	Micro-Tech*	
	Atrazine 12 inches	Ī
	Bullet and Micro-Tech are not registered for use as a	
	postemergence application in TX.	
Preharvest	In Roundup Ready corn, up to 1.0 qt/A of this product can	
	be applied preharvest. Make applications at 35% grain	between application and harvest.
	moisture or less. Ensure that maximum kernel fill is	
	complete and the corn is physiologically mature (black	
	l layer formed).	

11.4 Roundup Ready Corn cont'd.:

11.4 KOUNDUP KEADY CORN CONT O.:				
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS		
Postharvest	This product may be applied after harvest of corn.	Pre-harvest Interval (PHI): Allow a minimum of 7 days		
	Higher rates may be required for control of large weeds	between treatment and harvest or feeding of treated		
	that were growing in the crop at the time of harvest. Tank	vegetation.		
	mixtures with 2,4-D or dicamba may be used.			
Enhanced product performance may be obtained with use of Loveland Products, Inc. Leci-Tech adjuvants. Consult with your local Loveland Products, Inc. representative				
for advice on specific product selection.				
MAXIMUM ALLOWABLE APPLICATION RATES				

MAXIMUM ALLOWABLE APPLICATION RATES			
Combined total per year for all applications	8.0 qt/A		
Total of all preplant, preemergence, at-planting applications	5.0 qt/A		
Maximum single in-crop application rate up to 48-inch corn	1.5 qt/A		
Total in-crop applications from emergence through 48-inch corn	3.0 qt/A		
Maximum preharvest application rate after maximum kernel fill is complete and the crop is			
physiologically mature (black layer formation) until 7 days before harvest 1.0 qt/A			

11.5 ROUNDUP READY COTTON

ATTENTION: USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COTTON; HOWEVER, VARIOUS ENVIRONMENTAL CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS MAKE IT IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN BRULLIOSS. DELAYED MATURITY AND/OR VIELD LOSS.

RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.			
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
Preplant	This product may be applied before, during or after	See Roundup Ready Crops, Section 11.0, for precautionary	
Preemergence	planting cotton.	instructions for use in Roundup Ready crops.	
At-planting	Make applications according to the rates listed in Annual		
	Weeds, Perennial Weeds, and Woody Brush and Trees rate		
	tables, Sections 14.0, 15.0 and 16.0.		
Postemergence (over-the-top)	This product may be applied by aerial or ground	See Roundup Ready Crops, Section 11.0, for precautionary	
	application equipment at rates up to 1.0 qt/A/application	instructions for use in Roundup Ready crops. The	
	postemergence to Roundup Ready cotton from the	combined total application of this product from cotton	
	ground cracking stage until the 4-leaf (node) stage of	emergence until harvest must not exceed 6.0 qt/A.	
	development (until the 5th true leaf reaches the size of a	NO MORE THAN 2 OVER-THE-TOP BROADCAST	
	quarter). Over-the-top applications made after the 4-leaf	APPLICATIONS MAY BE MADE FROM CROP EMERGENCE	
	(node) stage of development may result in boll loss,	THROUGH THE 4-LEAF (NODE) STAGE OF DEVELOPMENT.	
	delayed maturity and/or yield loss.	NO MORE THAN 2 APPLICATIONS MAY BE MADE FROM	
	Salvage Treatment: This treatment may be used after the	THE 5-LEAF STAGE THROUGH LAYBY. SEQUENTIAL	
	4-leaf stage of development and must only be used where	IN-CROP OVER-THE-TOP OR POST DIRECTED	
	weeds threaten to cause the loss of the crop. 1.0 qt/A	APPLICATIONS OF THIS PRODUCT MUST BE AT LEAST 10	
	may be applied either as over-the-top applications or as a post directed treatment sprayed higher on the cotton	DAYS APART AND COTTON MUST HAVE AT LEAST 2 NODES OF INCREMENTAL GROWTH BETWEEN	
	plants and over the weeds.	APPLICATIONS.	
	Note: SALVAGE TREATMENTS WILL RESULT IN	Pre-harvest Interval (PHI): ALLOW A MINIMUM OF 7 DAYS	
	SIGNIFICANT BOLL LOSS, DELAYED MATURITY AND/OR	BETWEEN APPLICATION AND HARVEST.	
	YIELD LOSS, NO MORE THAN 1 SALVAGE TREATMENT	DETWEEN ALT EIGATION AND HARVEST.	
	MAY BE USED/GROWING SEASON.		
Selective equipment	This product may be applied using precision post-	See Selective Equipment, Section 7.5, for information on	
Colocure equipment	directed or hooded sprayers at rates up to 1.0 gt/A/	proper use and calibration of this equipment.	
	application to Roundup Ready cotton through layby.		
	At this stage, post directed equipment must be used which		
	directs the spray to the base of the cotton plants. Contact		
	of the spray with cotton leaves should be avoided to the		
	maximum extent possible. To minimize spray onto the		
	leaves of the cotton plants, place nozzles in a low position		
	directing a horizontal spray pattern under the cotton leaves	0	
	to contact weeds in the row, and maintain low spray	Cont'd. next page	

11	.5 A	oundun	Ready	Cotton	cont'd:

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
Selective equipment cont'd	pressure (less than 30 psi). For best results, make		
	applications while weeds are small (less than 3 inches).		
Preharvest	This product may be applied for pre-harvest annual and	Pre-harvest Interval (PHI): Allow a minimum of 7 days	
	perennial weed control as a broadcast treatment to	between application andharvest of cotton.	
	Roundup Ready cotton after 20% boll crack. Up to 2.0 qt	Do not apply this product to cotton grown for seed, as a	
	of this product may be applied using either aerial or	reduction in germination or vigor may occur.	
	ground spray equipment.	REFER TO MANUFACTURER'S LABELS FOR USE OF	
	Tank Mixtures: This product may be tank mixed with	ADDITIVES (such as surfactants, stickers and spreaders)	
	DEF 6, Folex, Ginstar, or Prep (or generic equivalents).	FOR PREHARVEST APPLICATION TO COTTON.	
	Note: This product will not enhance the performance of		
	these harvest aids when applied to Roundup Ready cotton.		

Enhanced product performance may be obtained with use of Loveland Products, Inc. Leci-Tech adjuvants. Consult with your local Loveland Products, Inc. representative for advice on specific product selection.

MAXIMUM ALLOWABLE APPLICATION RATES		
Combined total per year for all applications	8.0 qt/A	
Total of all preplant, preemergence, at-planting applications	5.0 qt/A	
Total in-crop applications from ground cracking to layby	4.0 qt/A	
Maximum preharvest application rate	2.0 at/A	

11.6 ROUNDUP READY FLEX COTTON

ATTENTION: USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COTTON; HOWEVER, VARIOUS ENVIRONMENTAL CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS MAKE IT IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN BOULLOSS. DELAYED MATURITY AND/OR VIELD LOSS.

RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.			
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
Preplant	This product may be applied before, during or after	See Roundup Ready Crops, Section 11.0, for	
Preemergence	planting Roundup Ready Flex cotton. Always plant into a	precautionary instructions for use in Roundup Ready	
At-planting	weed free seedbed. In no till and stale seedbed systems,	crops.	
	always burn down existing weeds before cotton emerges.		
	Make applications according to the rates listed in Annual		
	Weeds, Perennial Weeds, and Woody Brush and Trees rate		
	tables, Sections 14.0, 15.0 and 16.0.		
Postemergence (over-the-top)	When applied in accordance with this label, Mad Dog Plus	The maximum rate for any single in-crop application of	
	herbicide will control labeled annual grasses and	this product is 1.5 qt/A made using ground application	
	broadleaf weeds in Roundup Ready Flex cotton. To	equipment.	
	maximize yield potential, spray cotton early to eliminate	In-crop application rates above 1.0 qt/A made alone or	
	competing weeds. Many perennial weeds will be	with the addition of other crop chemical products	
	controlled or suppressed with 1 or more applications	containing surfactant may cause a crop response including	
	of this product.	leaf speckling or leaf necrosis.	
	An initial application of 1.0 qt/A on 1- to 3-inch tall	Except for pre-harvest use, do not exceed a maximum rate	
	annual grass and broadleaf weeds is recommended.	of 1.0 qt/A of this product when making applications by air.	
	This product may be applied by ground application	Between layby and 60% open bolls the maximum combined	
	equipment at rates up to 1.5 qt/A/application post-	total rate of this product that may be applied is 2.0 qt/A.	
	emergence to Roundup Ready Flex cotton. In addition to	The maximum combined total of all applications made from	
	broadcast applications, post directed equipment may be	crop emergence through 60% open bolls must not exceed	
	used to achieve weed coverage.	6.0 qt/A.	
	Note: For specific rates of application and instructions	Application after 10th leaf or 10th node may result in plant	
	refer to the Annual Weeds and Perennial Weeds rate	injury and yield loss.	
	tables, Sections 14.0 and 15.0.		
Preharvest	This product may be applied for preharvest annual	Pre-harvest Interval (PHI): Allow a minimum of 7 days	
	and perennial weed control as a broadcast treatment	between application and harvest of cotton.	
	to Roundup Ready Flex cotton after 60% boll crack.	Do not apply this product to cotton grown for seed, as a	
	Up to 2.0 qt of this product may be applied using	reduction in germination or vigor may occur.	
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11.6 Roundup Ready Flex Cotton cont'd.:

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TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
	either aerial or ground spray equipment.	THE USE OF ADDITIVES, OTHER THAN THOSE LISTED ON
	Note: This product will not enhance the performance	ON THIS LABEL, FOR PREHARVEST APPLICATION
	of harvest aids when applied to Roundup Ready Flex	TO COTTON IS PROHIBITED.
	cotton.	

Enhanced product performance may be obtained with use of Loveland Products, Inc. Leci-Tech adjuvants. Consult with your local Loveland Products, Inc. representative for advice on specific product selection.

MAXIMUM ALLOWABLE APPLICATION RATES

Combined total per year for all applications (calculate the combined rate to be used	
for all preplant, in-crop and pre-harvest applications)	8.0 qt/A
Total of all preplant, at-planting, preemergence applications	5.0 qt/A
Total in-crop applications from ground cracking to 60% open bolls	6.0 qt/A
Maximum allowed from 60% bolls open to 7 days prior to harvest	2.0 qt/A

11.7 ROUNDUP READY SOYBEANS

THE USE OF THIS PRODUCT FOR IN-CROP APPLICATIONS OVER ROUNDUP READY SOYBEANS MAY NOT BE PRACTICED IN CALIFORNIA UNLESS THE APPLICATOR HAS AT THE TIME OF APPLICATION A CALIFORNIA APPROVED SUPPLEMENTAL LABEL SPECIFYING THE ACCEPTED DIRECTION FOR USE.

	<u>N A CALIFORNIA APPROVED SUPPLEMENTAL LABEL SPECIFYING T</u>	
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Preplant	This product may be applied before, during or after	See Roundup Ready Crops, Section 11.0, for
Preemergence	planting soybeans.	precautionary instructions for use in Roundup Ready
At-planting	Make applications according to the rates listed in Annual	crops.
	Weeds, Perennial Weeds, and Woody Brush and Trees rate	
	tables, Sections 14.0, 15.0 and 16.0.	
Postemergence (in-crop)	When applied as directed, this product will control labeled	
Preharvest	annual grasses and broadleaf weeds in Roundup Ready	through harvest must not exceed 3.0 qt/A.
	soybeans. Applications of this product can be made in	The maximum rate for any single in-crop application is
	Roundup Ready soybeans from emergence (cracking)	2.0 qt/A. The maximum combined total of this product that
	throughout flowering.	can be applied during flowering is 2.0 qt/A.
	Refer to Annual Weeds rate table, Section 14.0, for rate	
	specifications. For specific annual weeds, an initial	
	application of 1.0 qt/A on 2- to 8-inch tall weeds is	
	recommended. Weeds will generally be 2 to 8 inches tall,	
	2 to 5 weeks after planting. If the initial application is	
	delayed and weeds are larger, apply a higher rate of this	
	product. This product may be used up to 2.0 qt/A in any	
	single in-crop application for control of annual weeds and	
	where heavy weed densities exist.	
	A 1.0 to 2.0 qt/A rate (single or multiple applications) of	
	this product will control or suppress perennial weeds such	
	as: Bermudagrass, Canada thistle, Common milkweed,	
	Field bindweed, Hemp dogbane, Horsenettle, Johnsongrass,	
	Marestail (horseweed), Nutsedge, Quackgrass, Redvine,	
	Rhizome, Swamp smartweed, Trumpetcreeper and	
	Wirestem muhly. For best results, allow perennial weed	
	species to achieve at least 6 inches of growth before	
	spraying with this product.	
	Under adverse growing conditions such as drought, hail,	
	wind damage or a poor soybean stand that slows or delays	
	canopy closure, a sequential application of this may be	
	necessary to control late flushes of weeds. IN THE	
	SOUTHERN STATES, A SEQUENTIAL APPLICATION OF THIS	s
	PRODUCT WILL BE REQUIRED TO CONTROL NEW	
	FLUSHES OF WEEDS IN THE ROUNDUP READY SOYBEAN	0
		Cont'd. next page

11	7 5	2011ndiin	Roady	Souheans	cont'd	

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
	CROP. To control Giant ragweed, it is recommended that	
	1.0 qt/A of this product be applied when the weed is 8 to	
	12 inches tall to increase control and possibly avoid the	
	need for a sequential application.	
Preharvest	Care should be taken to avoid excessive seed shatter	Pre-harvest Interval (PHI): Allow a minimum of 14 days
	loss due to ground application equipment.	between final application and harvest of soybean grain or
	This product provides weed control when applied prior	feeding of soybean grain, forage or hay.
	to harvest of soybeans. Up to 1.0 qt/A of this product can	
	be applied by aerial or ground application.	
Postharvest	This product may be applied after harvest of Roundup	
	Ready soybeans. Higher rates may be required for control	
	of large weeds that were growing in the crop at the time	
	of harvest. Tank mixtures 2,4-D or dicamba may be used.	
Enhanced product performance may be obta	ained with use of Loveland Products, Inc. Leci-Tech adjuvants	s. Consult with your local Loveland Products, Inc. represen-

tative for advice on specific product selection.

MAXIMUM ALLOWABLE APPLICATION RATES

MIANIMOM ALLOWABLE AT I LIGATION TIATED		
Combined total per year for all applications	8.0 qt/A	
Total of all preplant, preemergence, at-planting applications	5.0 qt/A	
Total in-crop applications from cracking throughout flowering	3.0 qt/A	
Maximum pre-harvest application rate	1.0 qt/A	

11.8 ROUNDUP READY SUGAR BEETS

The Roundup Ready designation indicates that the sugar beet contains a patented gene, which provides tolerance to this product. Information on Roundup Ready sugar beet may be obtained from your seed supplier or Loveland Products, Inc. representative. Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier.

DO NOT combine these instructions with other recommendations made for crop varieties that do not contain a Roundup Ready gene listed in Annual and Perennial Crops. Section 8.0.

Grops, deciron c.c.			
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS	
Preplant	This product may be applied before, during or after	Maximum quantity of this product that may be applied for	
At-planting	planting of Roundup Ready sugar beets.	all preplant, at-planting and preemergence applications	
Preemergence	Make applications according to the rates listed in Annual	combined is 5.0 qt/A/season.	
	Weeds, Perennial Weeds, and Woody Brush and Trees rate	·	
	tables, Sections 14.0, 15.0 and 16.0.		
Postemergence (in-crop)	This product may be applied over-the-top of Roundup	The combined total application from crop emergence	
	Ready sugar beets for control of annual grasses and	through harvest must not exceed 4.5 qt/A.	
	broadleaf weeds from emergence to 30 days prior to	The maximum rate for any single application between	
	harvest. To maximize yield potential, spray sugar beets	emergence to the 8-leaf stage is 1.5 qt/A.	
	early to eliminate competing weeds.	The maximum rate for any single application between the	
	Up to 4 sequential applications of this product may be	8-leaf stage and canopy closure is 1.0 qt/A.	
	made with at least 10 days between applications.	Pre-harvest Interval (PHI): Allow a minimum of 30 days	
	This product will control or suppress most perennial	between last application and sugar beet harvest.	
	weeds. For some perennial weeds, repeat applications	For any crop NOT listed in the crops sections of this label,	
	may be required to eliminate crop competition	applications must be at least 30 days prior to planting.	
	throughout the growing coseon		

Ithroughout the growing season.

Enhanced product performance may be obtained with use of Loveland Products, Inc. Leci-Tech adjuvants. Consult with your local Loveland Products, Inc. representative for advice on specific product selection.

MAXIMUM ALLOWABLE APPLICATION RATES		
Combined total per year for all applications	8.0 qt/A	
Total of all preplant, preemergence applications	5.0 qt/A	
Emergence to 8-leaf stage	2.5 qt/A	
Between 8-leaf stage and canopy closure	2.0 qt/A	

12.0 NON-CROP USES AROUND THE FARMSTEAD

12.1 WEED CONTROL, TRIM AND EDGE

LABELED SITES: Non-crop areas including building foundations, along and in fences, in dry ditches and canals, along ditchbanks, farm roads, shelterbelts, prior to landscape plantings and equipment storage grees

landscape plantings and equipment storac	e areas.		
TYPES OF APPLICATIONS	USE DIRECTIONS		RESTRICTIONS
Any suitable application equipment This product may be used to control annual weeds,		o control annual weeds,	This product plus dicamba tank mixtures may not be
described in Section 7.0.	perennials weeds and wood	y brush which are found in	applied by air in CA.
	any part of the farmstead.		
	Make applications according	to the rates listed in Annual	
		nd Woody Brush and Trees rate	
	tables, Sections 14.0, 15.0 a	and 16.0.	
	Tank Mixtures: This product	may be tank mixed with the	
	following products (or gene	ric equivalents). Refer to these	
	product labels for approved	farmstead sites and application	
	rates. For annual weeds, use	e 1.0 qt/A of this product when	
	weeds are less than 6 inche	s tall and 1.5 qt/A when weeds	
	are greater than 6 inches tal	I. For perennial weeds, apply	
	2.0 to 5.0 gt/A in these tank mixes.		
	For tank mixtures with these products through backpack		
	sprayers, handguns or other high-volume spray-to-wet		
	applications, see the Hand-held or High-Volume Equipment,		
	Section 7.4, for allowable ap	plication rates.	
	Arsenal®	Plateau®	
	Barricade® 65WG	Princep DF	
	Diuron	Princep Liquid	
	Endurance®	Ronstar® 50 WP	
	Escort®	Sahara®	
	Karmex DF	Simazine	
	Krovar DF	Surflan	
	Oust	Vanquish®	
	Pendulum® 3.3 EC	2,4-D	
	Pendulum WDG		
	For control or partial control of the following perennial		
	weeds, apply 1.0 to 2.0 qt Mad Dog Plus + 2.0 to 4.0 oz		
	of Oust/A.		
	Bahiagrass	Fescue, tall	
	Bermudagrass	Johnsongrass	
	Broomsedge	Poorjoe	
	Dallisgrass	Quackgrass	
	Dock, curly	Vaseygrass	
	Dogfennel	Vervain, blue	

12.2 GREENHOUSE/SHADEHOUSE

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Spot spray	Desirable vegetation should not be present during	Air circulation fans must be turned off during application.
Directed spray	application.	
	This product may be used to control weeds in and	
	around greenhouses and shadehouses.	
	Make applications according to the rates listed in Annual	
	Weeds, Perennial Weeds, and Woody Brush and Trees rate	
	tables Sections 14.0, 15.0 and 16.0	

12.3 CHEMICAL MOWING

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Any suitable application equipment described in Section 7.0.	This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 8.0 fl oz of Mad Dog Plus/A when treating tall fescue, fine fescue, orchardgrass or quackgrass covers. Use 6.0 fl oz of Mad Dog Plus/A when treating Kentucky bluegrass. Use 16.0 fl oz of Mad Dog Plus when treating bermudagrass. Use 64.0 fl oz of Mad Dog Plus when treating Torpedograss or Paragrass. Apply treatments in 10.0 to 20.0 gal of spray solution/A.	Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

12.4 CUT STUMPS
LABELED USES: Cut Stumps (on any non-crop site listed on this label)

LADELED USES. Gut Stuffips (off any fion-ci	op site listed off this label)		
TYPES OF APPLICATIONS	USE DIRECTIONS		RESTRICTIONS
Suitable Hand-held Equipment	This product will control regr	owth of cut stumps and	Some sprouts, stems, or trees may share the same root
	resprouts of many types of w	roody brush and tree species,	system. Adjacent trees having a similar age, height and
	some of which are listed belo	w. Apply this product using	spacing may signal shared roots. Whether grafted or
	suitable equipment to ensure	coverage of the entire	shared, injury is likely to occur to non-treated stems/trees
	cambium. Cut trees or respro	outs close to the soil surface.	when one or more trees sharing common roots are treated.
	Apply a 50 to 100% solution	of this product to the	
	freshly-cut surface immediate	ely after cutting. Delays in	
	application may result in reduced performance. For best		
	results, applications should be made during periods of		
	active growth and full leaf expansion. Alder Reed, giant Eucalyptus Salt cedar Madrone Sweetgum		
	Oak	Tan oak	
	Pepper, Brazilian	Willow	
	Pine Austrian		

12.5 HABITAT MANAGEMENT

LABELED USES: Habitat Restoration and Maintenance, Wildlife Food Plots

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Any suitable application equipment	This product may be used to control exotic and other	If tillage is needed to prepare a seedbed, wait 7 days after-
described in Section 7.0.	undesirable vegetation in habitat management and natural	application before tillage to allow translocation into
	areas including rangeland and wildlife refuges. Applications	underground plant parts.
	can be made to allow recovery of native plant species,	
	prior to planting desirable native species, and for similar	
	broad-spectrum vegetation control requirements in habitat	
	management areas.	
	Make applications according to the rates listed in Annual	
	Weeds, Perennial Weeds, and Woody Brush and Trees rate	
	tables, Sections 14.0, 15.0 and 16.0.	
	Spot treatments can be made to selectively remove	
	unwanted plants for habitat maintenance and enhancement.	
	This product may be used as a site preparation treatment	
	to control annual and perennial weeds prior to planting	
	wildlife food plots. Any wildlife food species may be	
	planted after applying this product, or native species may	
	be allowed to repopulate the area.	

13.0 FORESTRY. INDUSTRIAL. TURF AND ORNAMENTAL

13.1 FORESTRY SITE PREPARATION

TYPES OF APPLICATIONS

Boom sprayers Shielded boom sprayers High-volume off-center nozzles Hand-held equipment and similar equipment

USE DIRECTIONS

This product is recommended for the control or partial control of woody brush, trees and herbaceous weeds in forestry. This product is also recommended for use in preparing or establishing wildlife openings with these sites and maintaining logging roads.

Make applications according to the rates listed in Annual Weeds, Perennial Weeds, and Woody Brush and Trees rate tables, Sections 14.0, 15.0 and 16.0.

This product is recommended for use in site preparation prior to planting any tree species, including Christmas trees, eucalyptus, hybrid tree cultivars and silvicultural nursery sites.

Use higher rates of this product within the labeled range for control or partial control of woody brush, trees and hard-to-control perennial herbaceous weeds. For best results, apply to actively growing woody brush and trees after full leaf expansion and before fall color and leaf drop. Increase rates within the labeled range for control of perennial herbaceous weeds any time after emergence and before seedheads, flowers or berries appear.

Use the lower rates of this product within the labeled range for control of annual herbaceous weeds and actively growing perennial herbaceous weeds after seedheads, flowers or berries appear. Apply to the foliage of actively growing annual herbaceous weeds any time after

Tank Mixtures: Tank mixtures of this product may be used to increase the spectrum of vegetation controlled. When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of all products used. Use according to the restrictive precautionary statements for each product in the mixture. Note: For forestry site preparation, make sure the tank mix product is approved for use prior to planting the desired species. Observe planting interval restrictions.

with the following products (or generic equivalents) for

forestry site preparation.
Arsenal Applicators Concentrate

Chopper® Escort or Escort XP

Garlon® 3A Garlon 4A

emergence.

Landmark® XP

Westar®

For control of herbaceous weeds, use the lower labeled tank mixture rates. For control of dense stands or toughto-control woody brush and trees, use the higher labeled rates.

RESTRICTIONS

Do not apply this product as an over-the-top broadcast spray for forestry, conifer or hardwood release unless otherwise specified on this label, or in separate supplemental labeling published by Loveland Products, Inc. for this product.

13.2 NON-CROP AREAS AND INDUSTRIAL SITES

LABELED USES: Non-crop areas including airports, apartment complexes, Christmas tree farms, commercial sites, Conservation Reserve Program (CRP) areas, ditch banks, dry ditches, dry canals, fencerows, golf courses, greenhouses, industrial sites, landscape areas, lumber yards, manufacturing sites, municipal sites, natural areas, office complexes, ornamentals parks, parking areas, pastures, petroleum tank farms, and pumping installations, plant nurseries, public areas, railroads, rangeland, recreational areas, residential areas, rights-of-way, roadsides, schools, sod or turf, seed farms, sports complexes, storage areas, substations, turfgrass, areas utility sites. warehouse areas and wildlife management areas

TYPES OF APPLICATIONS

This product may be applied with any suitable application equipment described in Section 7.0

USE DIRECTIONS

objects in non-crop sites, for spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting an area to ornamentals flowers turforass (sod or seed) or prior to laying asphalt or beginning construction projects. Make applications according to the rates listed in Annual Weeds, Perennial Weeds, and Woody Brush and Trees rate tables, Sections 14.0, 15.0 and 16.0, Repeated applications of this product may be used, as weeds emerge, to maintain bare ground, Tank Mixtures: This product may be tank mixed with the following products (or generic equivalents) provided that the specific product is registered for use on the target site. Refer to these product labels for approved sites and application rates. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive precautionary statements for each product in the mixture. User is responsible for ensuring that the mixture product's label allows the specific applications. Arsenal Outrider® Atrazine pendimethalin Barricade 65WG . Plateau Certaintv® Crosshow® L dicamba* Landmark II MP

Landmark II

This product may be used to trim and edge around

Endurance Poast® Escort Ronstar 50 WP Escort XP simazine Gallery® 75DF Surflan AS Garlon 3A Surflan WDG Garlon 4 Transline® Goal 2XI Velpar® DF Krovar I DF Velpar L Oust 2 4-D

Oust XP

diuron

When applied as a tank mixture for bare ground, this product provides control of the emerged annual weeds and control of partial control of emerged perennial weeds, woody brush and trees. For control or partial control of the following perennial weeds, apply 1.0 to 2.0 q to Mad Dog Plus + 2.0 to 4.0 oz of Oust or Oust XP/A.

Bahiagrass Bermudagrass Broomsedge Dallisgrass Dock, curly Dogfennel Fescue, tall Johnsongrass Poorjoe Quackgrass Vaseygrass Vervain, blue

RESTRICTIONS

*This product plus dicamba tank mixtures may not be applied by air in CA.

13.3 INJECTION AND FRILL (Woody Brush and Trees)
LABELED SITES: Woody brush and Trees in non-crop areas

LABELED SITES: Woody Drush and Trees in	i non-crop areas		
TYPES OF APPLICATIONS	USE DIRECTIONS		RESTRICTIONS
Injection or Frill applications	Apply this product using suit	able equipment which must	Avoid application techniques that allow runoff to occur
	penetrate into the living tissu	e. Apply the equivalent of	from frilled or cut areas in species that exude sap freely.
	1.0 mL of this product per each 2 to 3 inches of trunk		In species such as this make the frill or cuts at an oblique
	diameter at breast height (DB	SH). This is best achieved by	angle to produce a cupping effect and use a 100%
	applying a 50 to 100% conce	ntration of Mad Dog Plus	concentration of this product.
	either to a continuous frill ard	ound the tree or as cuts	
	evenly spaced around the tre	e below all branches. As tree	
	diameter increases in size, be	etter results are achieved by	
	applying diluted material to a	continuous frill or more	
	closely spaced cuttings. For best results, application should be made during periods of active growth and after full leaf expansion. This product will control many species, some of which are		
	listed below:		
	Control	Partial Control	
	Oak	Black gum	
	Poplar	Dogwood	
	Sweetgum	Hickory	
	Sycamore	Maple, red	

13.4 HOLLOW STEM INJECTION

LABELED SITES: Hollow-stem plants, growi	ng in any non-crop site specified on this label.	
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Hand-held injection devices that deliver labeled amounts of this product	For control of the following hollow stem plants, use the application rates below: Japanese Knotweed (<i>Polygonum cuspidatum</i>) Inject 5.0 mL/stem Mad Dog Plus between 2nd and 3rd internode. Bohemian Knotweed (<i>Polygonum bohemicum</i>) Inject 5.0 mL/stem Mad Dog Plus between 2nd and 3rd internode. Giant Hogweed (<i>Hercleum mantegazzianum</i>) Inject 1 leaf cane/plant 12 inches above the root crown with 5.0 mL of a 5% v/v solution of Mad Dog Plus. Poison Hemlock (<i>Conium maculatum</i>) Inject 1 leaf cane/plant 10 to 12 inches above the root crown with 5.0 mL of a 5% v/v solution of Mad Dog Plus. Field horsetail (<i>Equisetum arvense</i>) Inject 1 segment above the root crown with 0.5 mL/stem of Mad Dog Plus. Use a small syringe that calibrates to this rate. Canada Thistle (<i>Circisum arvense</i>) Cut 8 to 9 of the tallest plants at bud stage in a clump with clippers. Use a cavity needle that is pushed into the stem center and then slowly removed as 0.5 mL/stem of this product is injected into the stem.	The combined total for all treatments must not exceed 7.0 qt of Mad Dog Plus/A. At 5.0 mL/stem, 7.0 qt will treat approximately 1300 stems/A.

13.5 ORNAMENTALS, PLANT NURSERIES AND CHRISTMAS TREES

LABELED SITES: Plant Nurseries. Christmas Tree farms and other non-food tree production sites.

LABELED SITES: Plant Nurseries, Unristmas	Tree farms and other non-tood tree production sites	
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Post directed	This product may be used as a post directed spray around	UNLESS OTHERWISE DIRECTED, THIS PRODUCT IS NOT
Trim-and-edge	established woody ornamental species (including arborvitae	ALLOWED FOR USE AS AN OVER-THE-TOP BROADCAST
	azalea, boxwood, crabapple, eucalyptus, euonymus, fir,	SPRAY IN ORNAMENTALS AND CHRISTMAS TREES.
	Douglas fir, jojoba, hollies, lilac, magnolia, maple, oak,	Care must be taken to avoid contact of spray, drift or mist
	poplar, privet, pine, spruce and yew, growing in plant	with foliage or green bark of desirable ornamental species.
	nurseries, on Christmas tree farms or on other non-food	
	tree production sites), or to trim and edge around trees,	
	buildings, sidewalks, roads, potted plants and other	
	objects in a production setting.	
	Apply at a concentration labeled by Annual Weeds,	
	Perennial Weeds, and Woody Brush and Trees rate tables,	
	Sections 14.0, 15.0 and 16.0, appropriate to the species	
	of weed to be controlled.	
	Desirable plants may be protected from the spray	
	solution by using shields or coverings made of cardboard	
	or other impermeable material.	
Site preparation	This product may be used prior to planting any tree,	
	shrub or vine, including Christmas tree species, in a	
	nursery or production setting.	
Wiper application	This product may be used through wick or other suitable	
	wiper applicators to control or partially control undesirable	
	vegetation around established trees, shrubs or vines. See	
	Selective Equipment, Section 7.5, for further information	
	about the proper use of wiper applicators.	

13.6 PARKS, RECREATIONAL AND RESIDENTIAL AREAS

LABELED SITES: Around Trees, Fences, Paths, Driveways, around Buildings, Patios, Sidewalks, Flower Beds, around Shrubs, and other Ornamental Plants

TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS
Trim-and-edge	This product may be used to eliminate unwanted weeds	Spray only when air is calm.
Spot treatment	growing in areas listed above.	Care must be taken to avoid contact of spray, drift or mist
	Use suitable hand-held equipment for directed spraying	with foliage or green bark of desirable ornamental species.
	according to instructions in Mixing for Hand-held	
	Sprayers, Section 6.3. If necessary, use cardboard or	
	plastic to shield desirable plants.	
	Do not use for spot weed control in lawns since desirable	
	lawn grass will also be killed.	
Site preparation	This product may be used prior to planting an area to	Spray only when air is calm.
Lawn renovation	ornamentals, flowers, turfgrass (sod or seed), lawn	Care must be taken to avoid contact of spray, drift or mist
	renovation or prior to laying asphalt or beginning	with foliage or green bark of desirable ornamental species.
	construction projects.	
	Make applications according to the rates listed in Annual	
	Weeds, Perennial Weeds, and Woody Brush and Trees	
	rate tables, Sections 14.0, 15.0 and 16.0.	
	Apply using suitable broadcast or directed spray	
	equipment. For lawn renovation, thorough coverage is	
	necessary to kill all weeds and old lawn.	
	For best results, apply when daytime temperatures are at	
	least 60 °F. Do not mow for 7 days before or after	
	treatment.	
	Seven days after application, soil may be tilled, fertilized	
	and seeded.	

13.7 RAILROADS

LABELED SITES: Railroad Rights-of-Way, Railroad Ballast areas

TYPES OF APPLICATIONS

Boom sprayers Shielded boom sprayers High-volume off-center nozzles Hand-held equipment

USE DIRECTIONS

All of the instructions in Noncrop Areas and Industrial Sites. Section 13.2, apply to railroads. Make applications according to the rates listed in Annual

Weeds, Perennial Weeds, and Woody Brush and Trees rate tables, Sections 14.0, 15.0 and 16.0,

This product may be used to maintain bare ground on railroad ballast and shoulders. Repeat applications of this product may be used as weeds emerge to maintain bare ground. This product may be used to control tall-growing weeds to improve line of sight at railroad crossings and reduce the need for mowing along rights-of-way. For crossing applications, up to 80.0 gal of spray solution/A may be used.

Tank Mixtures: This product may be tank mixed with the following products (or generic equivalent) for ballast. shoulder, spot, bare ground and crossing treatments provided that the specific product is registered for use on such sites. Refer to these product labels for approved non-crop sites and application rates. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive precautionary statements for each product in the mixture.

Krovar I DF Arsenal dicamba Oust Sahara diuron Snike® Escort Garlon 3A Velnar Garlon 4 2.4-D

Hvvar® X

Brush control: This product may be used to control woody brush and trees on railroad rights-of-way. Apply 4.0 to 10.0 gt of Mad Dog Plus/A as a broadcast spray, using boom-type or boomless nozzles. Up to 80.0 gal of spray solution/A may be used. Apply a 0.5 to 2% solution of this product when using high-volume sprayto-wet applications. Apply a 5 to 10% solution of this product when using low volume directed sprays for spot treatment. This product may be mixed with the following products (or generic equivalent) for enhanced control of woody brush and trees:

Arsenal Tordon® 22K Tordon K Escort Garlon 3A Transline Garlon 4 Vanquish Kernite Velpar

RESTRICTIONS

Observe application precautions in Application and Techniques, Section 7.0, Avoid application to non-target plants due to drift, overspray or runoff.

13.8 ROADSIDES

LABELED SITES: Roadside Rights-of-Way areas (including Shoulders, Guardrails and Signposts)

TYPES OF APPLICATIONS	USE DIRECTIONS		RESTRICTIONS
Boom sprayers	All the instructions in the	Noncrop Areas and	Observe application precautions in Application Equipment
Shielded boom sprayers	Industrial Sites, Section 1	13.2, apply to roadsides.	and Techniques, Section 7.0.
High-volume off-center nozzles	Make applications accord	ling to the rates listed in Annual	Avoid application to non-target plants due to drift,
Hand-held equipment and	Weeds, Perennial Weeds,	, and Woody Brush and Trees rate	overspray or runoff.
similar equipment	tables, Sections 14.0, 15.	.0 and 16.0.	
	This product may be use	d on road shoulders, under	
	guardrails and around sig	inposts and other objects along	
	roadsides that may be ob	stacles to mowing.	
	Tank Mixtures: This prod	uct may be tank mixed with the	
	following products (or ge	eneric equivalent) for shoulder,	
	guardrail, spot and bare (ground treatments:	
	diuron	Princep Liquid	
	Endurance	Rifle®	
	Escort	Ronstar 50 WP	
	Krovar I DF	Sahara	
	Oust	simazine	
	Pendulum 3.3 EC	Surflan	
	Pendulum WDG	Vanquish	
	Princep DF	2,4-D	
		ndustrial Sites, Section 13.2, for	
	instructions for tank mixi		
Spot treatment		ed as a spot treatment to control	
	unwanted vegetation gro	wing along roadsides.	

13.9 UTILITY SITES

LABELED SITES: Electrical Power, Pipeline And Telephone rights-of-way, and in other sites associated with these rights-of-way, Including Substations, Roadsides, Railroads or Similar Rights-of-way that run in conjunction with Utilities.

Railroads or Similar Rights-of-way that run	Railroads or Similar Rights-of-way that run in conjunction with Utilities.				
TYPES OF APPLICATIONS	USE DIRECTIONS	RESTRICTIONS			
Boom sprayers	This product may be used in utility sites and substations	Observe application precautions in Application Equipment			
Shielded boom sprayers	to control unwanted vegetation and to eliminate unwanted	and Techniques, Section 7.0.			
High-volume off-center nozzles	weeds growing in established shrub beds or ornamental	Avoid application to non-target plants due to drift,			
Hand-held equipment and	plantings. This product may be used prior to planting a	overspray or runoff.			
similar equipment	utility site to ornamentals, flowers, turfgrass (sod or seed),				
	or beginning construction projects.				
	Make applications according to the rates listed in Annual				
	Weeds, Perennial Weeds, and Woody Brush and Trees rate				
	tables, Sections 14.0, 15.0 and 16.0.				
	Repeated applications of this product may be used as weeds emerge to maintain bare ground. This product can				
	also be used when preparing or establishing wildlife				
	openings within these sites, maintaining access roads and				
	for side trimming along utility rights-of-way.				
	For control of herbaceous weeds, use the lower labeled				
	tank mixture rates. For control of dense stands of				
	tough-to-control woody brush and trees, use the higher				
	labeled rates.				
	Tank Mixtures: Tank mixtures of this product may be used				
	to increase the spectrum of control for herbaceous weeds,				
	woody brush and trees. This product may be tank mixed				
	with the following products (or generic equivalent). Refer				
	to these products labels for approved non-crop sites and				
	application rates. Read and carefully observe the	Cont'd. next page			

12 0	Utility	Citac	con	t'd ·
10.9	ULIIILV	ones	CUII	l u

TYPES OF APPLICATIONS	USE DIRECTIONS		RESTRICTIONS
Boom sprayers	cautionary statements and a	II other information appearing	
Shielded boom sprayers	on the labels of all herbicide	s used. Use according to the	
High-volume off-center nozzles	most restrictive precautionary statements for each product		
Hand-held equipment and	in the mixture. User is respo	nsible for ensuring that the	
similar equipment cont'd	mixture product's label allow	vs the specific application	
	when tank mixing with a sing	gle generic active ingredient	
	listed below.		
	Arsenal	Outrider	
	atrazine ¹	pendimethalin ¹	
	Barricade 65WG	Plateau	
	dicamba ¹	Princep	
	diuron ¹	Ronstar 50WP	
	Endurance	Sahara	
	Escort	simazine ¹	
	Escort XP	Surflan AS	
	Garlon 3A ²	Surflan WDG	
	Garlon 4 ³	Transline	
	Krenite®	Vanquish	
	Krovar 1 DF	Velpar DF	
	Oust	Velpar L	
	Oust XP	2,4-D ²	
		containing this generic active	
	ingredient may be made pro	vided the specific product is	
	registered for the use.		
	² Ensure that Garlon 3A is the		
	according to label directions	before adding this product.	
	Have spray mixture agitating		
	added to avoid spray incomp		
	³ For side trimming treatmen		
	this product be used alone o	r in a tank mixture with	
	Garlon 4.		

14.0 ANNUAL WEEDS RATE TABLES (Alphabetical by Species)

WATER CARRIER VOLUMES OF 3.0 TO 10.0 GALLONS PER ACRE FOR GROUND APPLICATIONS AND 3.0 TO 5.0 GALLONS PER ACRE FOR AERIAL APPLICATIONS ARE REQUIRED.

- Apply to actively growing annual weeds. Annual weeds are generally easiest to control when they are small.
- Older, mature (hardened) annual weed species may require higher rates even if they meet the size requirements.
- Do not tank mix with soil residual herbicides when using these rates unless otherwise specified.
- For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.
- This product may be used up to 48.0 fluid ounces per acre where heavy weed densities exist.

ANNUAL WEEDS RATE TABLE

MINIONE WELDO HATE TABLE					
APPLICATION RATE (FI OZ/Acre)					
WEED SPECIES	16	24	32	40	48
		Maxim	um height/leng	th (in inches)	
Ammannia, purple	3"	6"	12"	-	18"
Annoda, spurred	-	2"	3"	5"	8"
Barley	18"	18+"	-	-	-
Barnyardgrass	-	3"	6"	7"	9"
Bassia, fivehook	-	-	6"	-	-
Beggarweed, Florida	-	5"	8"	-	-

Annual Weeds Rate Table cont'd.:

ANNUAL WEELS HATE 1 DIE CONT D.: APPLICATION RATE (FI OZ/Acre)					
WEED SPECIES	16	24	32	40	48
				ngth (in inches)	
Bittercress	12"	20"	-	-	-
Bluegrass, annual	10"	-	-	-	-
Bluegrass, bulbous	6"	-	-	-	-
Brome, downy ^{1, 2}	6"	12"	-	-	-
Brome, Japanese	6"	12"	24"	-	-
Browntop panicum	6"	8"	12"	-	24"
Buckwheat, wild ³	-	1"	2"	-	-
Burcucumber	-	6"	12"	-	18"
Buttercup	6"	20"	1	-	-
Carolina geranium	-	-	4"	-	9"
Carpetweed	-	6"	12"	-	
Cheat ²	6"	20"	-	1	-
Chervil	20"	-	+ -	1	1.
Chickweed	-	12"	18"	+ -	1:
Cocklebur	12"	18"	24"	+-	36"
Copperleaf, hophornbeam	- 12	2"	4"	-	6"
Copperlear, nopnormeam Copperleaf, Virginia	-	2"	4"	-	6"
	+ -	6"	12"		
Coreopsis, plains	6"				18"
Corn, volunteer		12"	20"	-	-
Corn speedwell	12"	-	-	-	-
Crabgrass	3"	6"	12"	-	-
Crowfootgrass	-	-	6"	-	12"
Cutleaf evening primrose	-	-	3"	-	6"
Devilsclaw (unicorn plant)	-	3"	6"	-	-
Dwarf dandelion	12"	-	-	-	-
Eastern mannagrass	8"	12"	-	-	-
Eclipta	-	4"	8"	12"	-
Fall panicum	4"	-	6"	-	12"
Falsedandelion	-	20"	-	-	-
Falseflax, smallseed	12"	-	-	-	-
Fiddleneck	-	6"	12"	-	-
Field pennycress	6"	12"	-	-	-
Filaree	-	-	6"	-	12"
Fleabane, annual	6"	20"	-	-	-
Fleabane, hairy	-	-	6"	-	10"
(Conyza bonariensis)					
Fleabane, rough	3"	6"	12"	-	-
Florida pusley	-	-	4"	-	6"
Foxtail, giant, bristly, yellow	6"	12"	20"	-	-
Foxtail, Carolina	10"	-	-	-	-
Foxtail, green	12"	-	-	-	-
Goatgrass, jointed	6"	12"	-	-	-
Goosegrass	-	3"	6"	-	12"
Grain sorghum (milo)	6"	12"	20"	-	-
Groundcherry	-	3"	6"	-	9"
Groundsel, common	-	6"	10"	-	
Hemp sesbania	1	2"	4"	6"	8"
Henbit	+-	-	6"	-	12"
Horseweed/Marestail	-	6"	12"	+ -	18"
	1 -	"	14	1 -	10
(Conyza canadensis)					

Annual Weeds Rate Table cont'd.:

Annual Weeds Rate Table cont'd.: APPLICATION RATE (FI Oz/Acre)					
WEED SPECIES	16	24	32	(FI UZ/ACTE) 40	48
MEED SECIES	10		num height/lend		40
Itchgrass	6"	8"	12"	-	18"
Jimsonweed	-	-	12"	-	18"
Johnsongrass, seedling	6"	12"	18"	+ -	24"
Junglerice	-	3"	6"	7"	9"
Knotweed	-	-	6"	-	12"
Kochia ⁴	-	3" to 6"	12"	-	_
Lambsquarters	-	6"	12"	-	20"
Little barley	6"	12"	-	-	-
London rocket	6"	-	24"	-	
Mayweed	-	2"	6"	12"	18"
Morningglory (<i>Ipomoea</i> spp.)	-	-	3"	-	6"
Mustard, blue	6"	12"	18"	-	-
Mustard, tansv	6"	12"	18"	-	-
Mustard, tumble	6"	12"	18"	-	-
Mustard, wild	6"	12"	18"	-	-
Nightshade, black	-	4"	6"	-	12"
Nightshade, hairy	-	4"	6"	-	12"
Oats	3"	6"	18"	-	-
Piaweed	-	12"	18"	24"	-
Prickly lettuce	-	6"	12"	-	-
Purslane	-	-	3"	-	6"
Ragweed, common	-	6"	12"	-	18"
Ragweed, giant	-	6"	12"	-	18"
Red rice	-	-	4"	-	-
Rye volunteer/cereal ²	6"	18"	18"+	-	-
Ryegrass	-	-	6"	-	12"
Sandbur, field	6"	12"	-	-	=
Sandbur, longspine	6"	12"	-	-	-
Shattercane	6"	12"	20"	-	-
Shepherdspurse	6"	12"	-	-	-
Sicklepod	-	2"	4"	-	8"
Signalgrass, broadleaf	-	3"	6"	7"	9"
Smartweed, ladysthumb	-	-	6"	-	9"
Smartweed, Pennsylvania	-	-	6"	-	9"
Sowthistle, annual	-	-	6"	-	12"
Spanishneedles	-	-	6"	-	12"
Speedwell, purslane	12"	-	-	-	-
Sprangletop	6"	12"	20"	-	-
Spurge, prostrate	-	6"	12"	-	-
Spurge, spotted	-	6"	12"	-	-
Spurry, umbrella	6"	-	-	-	-
Stinkgrass	-	12"	-	-	-
Sunflower	12"	18"	-	-	-
Swinecress	-	5"	12"	-	-
Teaweed/Prickly sida	-	2"	4"	-	6"
Texas panicum _	6"	8"	12"	24"	-
Thistle, Russian ⁵	-	6"	12"	-	-
Velvetleaf	-	-	6"	-	12"
Virginia pepperweed	-	18"	-	-	-
Waterhemp	-	-	6"	-	12"

Annual Weeds Rate Table cont'd.:

		APPL	ICATION RATE	(FI Oz/Acre)	
WEED SPECIES	16	24	32	40	48
		Maxim	um height/leng	th (in inches)	
Wheat ²	6"	12"	18"	-	-
Wheat (overwintered)	-	6"	12"	-	18"
Wild oats	3"	6"	18"	-	-
Wild proso millet	-	6"	12"	-	18"
Witchgrass	-	12"	-	-	-
Woolly cupgrass	-	6"	12"	-	-
Yellow rocket	-	12"	20"	-	•

¹For control of Downy brome in no-till systems use 24.0 fluid ounces per acre.

For improved control of Wild buckwheat over 2 inches in size, use sequential treatments of 32.0 fluid ounces followed by 32.0 fluid ounces of this product per acre.

Whenever possible, a tank mixture with 2.4-D as described below may improve control.

14.1 ANNUAL WEEDS - Water Carrier Volumes of 10.0 to 40.0 Gallons per Acre

Apply 1.0 to 2.0 quarts of this product per acre. Use 1.0 quart per acre if weeds are less than 6 inches tall, and 1.5 quarts per acre if weeds are 6 to 12 inches tall, and 2.0 quarts per acre if weeds are greater than 12 inches tall.

These rates will provide control of weeds listed in the annual weed control tables when water carrier volumes are 10.0 to 40.0 gallons per acre for ground applications. Older, mature (hardened) annual weed species may require higher rates even of they meet the size requirements.

14.2 ANNUAL WEEDS - Tank Mixtures with 2,4-D or Dicamba or Picloram 22K

12.0 to 16.0 fluid ounces of this product plus 0.25 pound active ingredient of dicamba or 0.5 pound active ingredient of 2,4-D per acre or 1.0 to 2.0 fluid ounces of Picloram 22K per acre will control the following weeds with the maximum height or length indicated:

6" - Prickly lettuce, Marestail/Horseweed (Conyza canadensis), Morningglory (Ipomoea spp), Kochia (dicamba only); Wild buckwheat (Picloram 22K only).

12" - Cocklebur, Lambsguarters, Pigweed, Russian thistle (2,4-D only).

16.0 fluid ounces of this product plus 0.5 pound active ingredient of 2,4-D per acre will control the following weeds when they are a maximum height or length of 6 inches: Common ragweed, Giant ragweed, Pennsylvania smartweed, and Velvetleaf.

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if dicamba or Picloram 22K is applied within 45 days of planting.

DO NOT APPLY DICAMBA TANK MIXTURES BY AIR IN CALIFORNIA.

14.3 ANNUAL WEEDS - Hand-Held or High-Volume Equipment

For control of weeds listed in the Annual Weeds rate table, Section 14.0, apply a 0.5% solution of this product to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1% solution.

For best results, use a 2% solution on harder-to-control perennials, such as Bermudagrass, Canada thistle, Dock, Dogbane milkweed, Field bindweed and Hemp.

When using application methods that result in less than complete coverage, use a 5% solution for annual and perennial weeds and a 5 to 10% solution for Woody brush and Trees.

14.4 ANNUAL WEEDS - Tank Mixtures with Atrazine for Fallow and Reduced Tillage Systems

For use only in Colorado, Kansas, Nebraska, Oklahoma, Oregon, South Dakota, and Washington. In Oregon and Washington, do not exceed 1.0 pound of atrazine per acre.

24.0 to 28.0 fluid ounces of this product plus 1.0 to 2.0 pounds of atrazine per acre will control the following weeds: Barnyardgrass (requires 28.0 ounces for control), Downy brome, Field sandbur, Green foxtail, Kochia (add 0.125 pound of dicamba for control) Lambsquarters, Pigweed, Prickly lettuce, Stinkgrass, Tansy mustard, Russian thistle. Volunteer wheat and Witchgrass.

²Performance is better if application is made before this weed reaches the boot stage of growth.

³Use 24.0 fluid ounces per acre of this product to control Wild buckwheat in the cotyledon to 2-leaf stage.

Use 32.0 fluid ounces per acre to control 2- to 4-leaf Wild buckwheat.

⁴Do not treat Kochia in the button stage.

⁵Control of Russian thistle may vary based on environmental conditions and spray coverage.

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures.

15.0 PERENNIAL WEEDS RATE TABLE (Alphabetical by Species)

Apply to actively growing perennial weeds.

Note: If weeds have been mowed or tilled, do not treat until plants have resumed active growth and have reached the specified stages.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence. Unless otherwise stated, allow 7 or more days after application before tillage.

Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth.

For hand-held sprayers, prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

Spray Solution

				<u>Amount of Iviad</u>	DOG PIUS		
Desired Volume	0.5%	1%	1.5 %	2%	5%	10%	
1.0 Gal	0.6 oz	1.3 oz	2.0 oz	2.6 oz	6.5 oz	13.0 oz	
25.0 Gal	1.0 pt	1.0 qt	1.5 qt	2.0 qt	5.0 qt	10.0 qt	
100 Gal	2.0 at	1.0 gal	1.5 gal	2.0 gal	5.0 gal	10.0 gal	

WEED SPECIES	RATE (QT/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION	COMMENTS
Alfalfa	1.0 to 2.0	3.0 to 10.0	2%	Make applications after the last hay cutting in the fall. Allow Alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil freeze-up.
Alligatorweed	4.0	3.0 to 20.0	1.5%	Partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain control.
Anise (fennel)	_	_	1 to 2%	Apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth.
Bahiagrass	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants have reached the early head stage.
Bentgrass	1.5	10.0 to 20.0	2%	For suppression in grass seed production areas. For ground applications only. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should have at least 3 inches of growth. Tillage prior to treatment should be avoided. Tillage 7 to 10 days after application is recommended for best results.
Bermudagrass	3.0 to 5.0	3.0 to 20.0	2%	For control, apply 5.0 qt of Mad Dog Plus/A. For partial control, apply 3.0 qt/A. Treat when Bermudagrass is actively growing and seedheads are present. Retreatment may be necessary to maintain control.
Bermudagrass, water (Knotgrass)	1.0 to 1.5	5.0 to 10.0	2%	Apply 1.5 qt of Mad Dog Plus in 5.0 to 10.0 gal of water/A. Apply when Water bermudagrass is 12 to 18 inches in length. Allow 7 or more days before tilling, flushing or flooding the field. Fall applications only: Apply 1.0 qt of Mad Dog Plus in 5.0 to 10.0 gal of water/A. Fallow fields should be tilled prior to application. Apply prior to frost on Water bermudagrass that is 12 to 18 inches in length. This product is not registered in CA for use on Water bermudagrass.
Bindweed, field	0.5 to 5.0	3.0 to 20.0	2%	Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth, apply 4.0 to 5.0 qt of Mad Dog Plus/A west of the Mississippi River and 3.0 to 4.0 qt east of the Mississippi River. Apply when the weeds are at or beyond full bloom. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Also for control, apply 2.0 qt of Mad Dog Plus + 0.5 lb Al of Rifle in 10.0 to 20.0 gal of water/A. Do not apply by air.

Cont'd. next page

WEED SPECIES	RATE (QT/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION	COMMENTS
Bindweed, field cont'd		,,		For suppression on irrigated agricultural land, apply 1.0 to 2.0 qt of Mad Dog Plus + 1.0 lb Al of 2,4-D in 10.0 to 20.0 gal of water/A with ground equipment only. Applications should be made following harvest or in fall fallow ground when the Bindweed is actively growing and the majority of runners are 12 inches or more in length. The use of at least 1 irrigation will promote active Bindweed growth. For suppression, apply 16.0 fl oz of Mad Dog Plus + 0.5 lb Al 2,4-D in 3.0 to 10.0 gal of water/A for ground applications and 3.0 to 5.0 gal of water/A for aerial applications. Apply by air in fallow and reduced tillage systems only. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length. In CA only, apply 1.0 to 5.0 gt of Mad Dog Plus/A. Actual rate needed for suppression or control will vary within this range depending on local conditions. For suppression on irrigated land where annual tillage is performed, apply 1.0 gt of this product in 3.0 to 10.0 gal of water/A. Apply to Bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Allow 3 or more days after apolication before tillage.
Bluegrass, Kentucky	1.0 to 2.0	3.0 to 40.0	2%	Apply 2.0 qt of Mad Dog Plus in 10.0 to 40.0 gal of water/A when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1.0 to 1.5 qt of Mad Dog Plus in 3.0 to 10.0 gal of water/A. Apply to actively growing plants when most have reached 4 to 12 inches in height.
Blueweed, Texas	3.0 to 5.0	3.0 to 40.0	2%	Apply 4.0 to 5.0 qt of Mad Dog Plus/A west of the Mississippi River and 3.0 to 4.0 qt/A east of the Mississippi River. Apply when plants are at or beyond full bloom. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.
Brackenfern	3.0 to 4.0	3.0 to 40.0	1 to 1.5%	Apply to fully expanded fronds which are at least 18 inches long.
Bromegrass, smooth	1.0 to 2.0	3.0 to 40.0	2%	Apply 2.0 qt of Mad Dog Plus in 10.0 to 40.0 gal of water/A when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1.0 to 1.5 qt of Mad Dog Plus in 3.0 to 10.0 gal of water/A. Apply to actively growing plants when most have reached 4 to 12 inches in height.
Bursage, woolly-leaf	-	3.0 to 20.0	2%	For control, apply 2.0 qt of Mad Dog Plus + 1.0 pt of Rifle/A. For partial control, apply 1.0 qt of Mad Dog Plus + 1.0 pt of Rifle/A. Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering.
Canarygrass, reed	2.0 to 3.0	3.0 to 40.0	2%	For best results, apply when most plants have reached the boot-to-head stage of growth.
Cattail	3.0 to 5.0	3.0 to 40.0	2%	Apply when most plants have reached the early head stage.
Clover; red, white	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants have reached the early bud stage. Also for control, apply 16.0 to 32.0 fl oz of Mad Dog Plus + 0.5 to 1.0 lb of 2,4 -D in 3.0 to 10.0 gal of water/A.
Cogongrass	3.0 to 5.0	10.0 to 40.0	2%	Apply when Cogongrass is at least 18 inches tall in late summer or fall. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.
Dallisgrass	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants have reached the early head stage.
Dandelion	3.0 to 5.0	3.0 to 40.0	2%	Apply when most plants have reached the early bud stage of growth. Also for control, apply 16.0 fl oz of Mad Dog Plus + 0.5 lb Al 2,4-D in 3.0 to 10.0 gal of water/A.
Dock, curly	3.0 to 5.0	3.0 to 40.0	2%	Apply when most plants have reached the early bud stage of growth. Also for control, apply 16.0 fl oz of Mad Dog Plus + 0.5 lb Al 2,4-D in 3.0 to 10.0 gal of water/A.
Dogbane, hemp	4.0	3.0 to 40.0	2%	Apply when most plants have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall. Cont'd. next page

WEED SPECIES	RATE (QT/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION	COMMENTS
Dogbane, hemp cont'd				For suppression, apply 16.0 fl oz of Mad Dog Plus + 0.5 lb Al of 2,4-D in 3.0 to 10.0 gal of water/A for ground applications and 3.0 to 5.0 gal of water/A for aerial applications. Delay applications until maximum emergence of Dogbane has occurred.
Fescue (except tall)	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants have reached the early head stage.
Fescue, tall	1.0 to 3.0	3.0 to 40.0	2%	Apply 3.0 qt of Mad Dog Plus/A when most plants have reached boot-to-early seedhead stage of development. Fall applications only: Apply 1.0 qt of Mad Dog Plus in 3.0 to 10.0 gal of water/A. Apply to Fescue in the fall when plants have 6 to 12 inches of new growth. A sequential application of 1.0 pt/A of Mad Dog Plus will improve long-term control and control seedlings germinating after fall treatments or the following spring.
Guineagrass	2.0 to 3.0	3.0 to 40.0	1%	Apply when most plants have reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment.
Horsenettle	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants have reached the early bud stage.
Horseradish	4.0	3.0 to 40.0	2%	Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.
Iceplant	-	-	1.5 to 2%	Iceplant should be at or beyond the early bud stage of growth. Thorough coverage is necessary for best control.
Jerusalem artichoke	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants are in the early bud stage.
Johnsongrass	0.5 to 3.0	3.0 to 40.0	2%	In annual cropping systems, apply 1.0 to 2.0 qt of Mad Dog Plus/A. Apply 1.0 qt of Mad Dog Plus in 3.0 to 10.0 gal of water/A. Use 2.0 qt of Mad Dog Plus when applying 10.0 to 40.0 gal of water/A. In noncrop, or areas where annual tillage (no till) is not practiced, apply 2.0 to 3.0 qt of Mad Dog Plus in 10.0 to 40.0 gal of water/A. For best results, apply when most plants have reached the boot to head stage of growth or in the fall prior to frost. Allow 7 or more days after application before tillage. Do not tank mix with residual herbicides when using the 1.0 qt/A rate. For burndown of Johnsongrass, apply 1.0 pt of Mad Dog Plus in 3.0 to 10.0 gal of water/A before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before tillage. Spot treatment (partial control or suppression) - Apply a 1% solution of this product when Johnsongrass is 12 to 18 inches in height. Coverage must be uniform and complete.
				growth). Allow 3 or more days after application before tillage.
Knapweed	4.0	3.0 to 40.0	2%	Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.
Lantana	-	-	1 to 1.25%	Apply at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth.
Lespedeza	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants have reached the early bud stage.
Milkweed, common	3.0	3.0 to 40.0	2%	Apply when most plants have reached the late bud to flower stage of growth.
Muhly, wirestem	1.0 to 2.0	3.0 to 40.0	2%	Use 1.0 qt of Mad Dog Plus, in 3.0 to 10.0 gal of water/A. Use 2.0 qt of Mad Dog Plus when applying 10.0 to 40.0 gal of water/A or in pasture, sod, or noncrop areas. Spray when the Wirestem muhly is 8 inches or more in height. Do not till between harvest and fall applications or in the fall or spring prior to spring applications. Pre-harvest Interval (PHI): Allow 3 or more days after application before tillage.
Mullein, common	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants are in the early bud stage.
Napiergrass	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants are in the early head stage.
Nightshade, silverleaf	2.0	3.0 to 10.0	2%	Applications should be made when at least 60% of the plants have berries. Fall treatments must be applied before a killing frost.

WEED SPECIES	RATE (QT/A)	WATER VOLUME (GPA)	% SOLUTION	COMMENTS
Nutsedge; purple, yellow	0.5 to 3.0	3.0 to 40.0	1 to 2%	Apply 3.0 qt of Mad Dog Plus/A or apply a 1 to 2% solution for control of Nutsedge plants and immature nutlets attached to treated plants. Treat when plants are in flower or when new nutlets can be found at rhizome tips. Nutlets which have not germinated will not be controlled and may germinate following treatment. Repeat treatments will be required for long-term control of ungerminated tubers. Sequential applications: 1.0 to 2.0 qt of Mad Dog Plus in 3.0 to 10.0 gal of water/A will also provide control. Make applications when a majority of the plants are in the 3- to 5-leaf stage (less than 6 inches tall). Repeat this application, as necessary, when newly emerging plants reach the 3- to 5-leaf stage. Subsequent applications will be necessary for long-term control. For partial control of existing plants apply 1.0 pt to 2.0 qt of Mad Dog Plus in 3.0 to 40.0 qal of water/A. Treat when plants have 3 to 5 leaves and most are less than 6 inches tall. Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants.
Örchardgrass	1.0 to 2.0	3.0 to 40.0	2%	Apply 2.0 qt of Mad Dog Plus in 10.0 to 40.0 gal of water/A when most plants have reached boot-to-early seed-head stage of development. For partial control in pasture or hay crop renovation, apply 1.0 to 1.5 qt of Mad Dog Plus in 3.0 to 10.0 gal of water/A. Apply to actively growing plants when most have reached 4 to 12 inches in height. Orchardgrass sods going to no till corn: Apply 1.0 to 1.5 qt of Mad Dog Plus in 3.0 to 10.0 gal of water/A. Apply to Orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications. Allow at least 3 days following application before planting. A sequential application of atrazine will be necessary for optimum results.
Pampasgrass	-	-	1.5 to 2%	Pampasgrass should be at or beyond the boot stage of growth. Thorough coverage is necessary for best control.
Paragrass	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants are in the early head stage.
Phragmites	3.0 to 5.0	10.0 to 40.0	1 to 2%	For partial control. For best results, treat during late summer or fall months or when plants are actively growing and in full bloom. Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.
Poison hemlock	-	-	1 to 2%	Apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth.
Pokeweed common	1.0	3.0 to 40.0	2%	Apply to actively growing plants up to 24 inches tall.
Quackgrass	1.0 to 3.0	3.0 to 40.0	2%	In annual cropping systems, or in pastures and sods followed by deep tillage: Apply 1.0 qt of Mad Dog Plus in 3.0 to 10.0 gal of water/A. For 10.0 to 40.0 gal of water/A, apply 2.0 qt of Mad Dog Plus. Do not tank mix with residual herbicides when using the 1.0 qt rate. Spray when Quackgrass is 6 to 8 inches in height. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, use a moldboard plow for best results. In pastures, sods or noncrop areas where deep tillage does not follow application: Apply 2.0 to 3.0 qt of Mad Dog Plus in 10.0 to 40.0 gal of water/A when the Quackgrass is greater than 8 inches tall.
Redvine	0.75 to 2.0	5.0 to 10.0	2%	For suppression, apply 24.0 fl oz of Mad Dog Plus/A at each of 2 applications 7 to 14 days apart or a single application of 2.0 qt/A. Apply labeled rates in 5.0 to 10.0 gal of water/A. Apply in late September or early October to plants which are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.
Reed, giant	-	1-	2%	Best results are obtained when applications are made in late summer to fall.

WEED SPECIES	RATE (QT/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION	COMMENTS
Ryegrass, perennial	1.0 to 3.0	3.0 to 40.0	1%	In annual cropping systems, apply 1.0 to 2.0 qt of Mad Dog Plus/A. Apply 1.0 qt of this product in 3.0 to 10.0 gal of water/A. Use 2.0 qt of Mad Dog Plus when applying 10.0 to 40.0 gal of water/A. In noncrop, or areas where annual tillage (no till) is not practiced, apply 2.0 to 3.0 qt of Mad Dog Plus in 10.0 to 40.0 gal water/A. For best results, apply when most plants have reached the boot-to-head stage of growth or in the fall prior to frost. Do not tank mix with residual herbicides when using the 1.0 qt/A rate.
Smartweed, swamp	3.0 to 5.0	3.0 to 40.0	2%	Apply when most plants have reached the early bud stage of growth. Also for control, apply 16.0 if loz of Mad Dog Plus + 0.5 lb Al 2,4-D in 3.0 to 10.0 gal of water/A in the late summer or fall.
Sowthistle, perennial	2.0 to 3.0	3.0 to 40.0	2%	Apply when most plants are at or beyond the bud stage of growth. After harvest mowing or tillage in the late summer or fall allow at least 4 weeks for initiation of active growth and rosette development prior to the application of Mad Dog Plus. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.
Spurge, leafy	-	3.0 to 10.0	2%	For suppression, apply 16.0 fl oz of Mad Dog Plus + 0.5 lb Al 2.4-D in 3.0 to 10.0 gal of water/A in the late summer or fall. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall.
Starthistle, yellow	2.0	10.0 to 40.0	2%	Best results are obtained when applications are made during the rosette, bolting and early flower stages.
Sweet potato wild	-	-	2%	Partial control. Apply to plants that are at or beyond the bloom stage of growth. Repeat applications may be required.
Thistle, artichoke	-	-	2%	Partial control. Apply to plants that are at or beyond the bloom stage of growth. Repeat applications may be required.
Thistle, Canada	2.0 to 3.0	3.0 to 40.0	2%	Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage. For suppression, apply 1.0 qt of Mad Dog Plus, or 1.0 pt of Mad Dog Plus + 0.5 lb Al 2,4-D in 3.0 to 10.0 gal of water/A in the late summer or fall after harvest, mowing or tillage. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.
Timothy	2.0 to 3.0	3.0 to 40.0	2%	For best results, apply when most plants have reached the boot-to-head stage of growth.
Torpedograss	4.0 to 5.0	3.0 to 40.0	2%	For partial control. Apply when most plants are at or beyond the seedhead stage of growth. Repeat applications will be required to maintain control. Fall treatments must be applied before frost.
Trumpetcreeper	2.0	5.0 to 10.0	2%	Partial control. Apply in late September or October, to plants which are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.
Vaseygrass	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants are in the early head stage.
Velvetgrass	3.0 to 5.0	3.0 to 20.0	2%	Apply when most plants are in the early head stage.
Wheatgrass, western	2.0 to 3.0	3.0 to 40.0	2%	For best results, apply when most plants have reached the boot-to-head stage of growth.

Refer to the specific product labels and comply with all restrictions and application instructions for all products used in tank mixes.

15.1 PERENNIAL WEEDS - Bromus Species and Medusahead

For use in the states of Colorado, Idaho, Iowa, Kansas, Montana, Nebraska, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming only.

Bromus Species: This product may be used to treat Cheatgrass (Bromus secalinus), Downy brome (Bromus tectorum), Japanese brome (Bromus japonicus) and Soft chess (Bromus mollis) found in industrial, rangeland and pasture sites. Apply 8.0 to 16.0 fluid ounces of product per acre on a broadcast basis. For best results, treatment should coincide with early seedhead emergence of the most mature plants. Delaying the application until this growth stage will maximize the emergence of other weedy grass flushes. Applications should be made to the same site each year until seed banks are depleted and the desirable perennial grasses are able to become reestablished on the site.

Medusahead: To treat medusahead, apply 16.0 fluid ounces of this product per acre as soon as plants are actively growing and prior to the 4-leaf stage. Applications may be made in the fall or spring.

Application Equipment and Techniques: Applications may be made using ground or aerial equipment. Aerial applications for these uses may be made using fixed wing or helicopter equipment. For aerial applications, apply in 2.0 to 10.0 gallons of water per acre. For applications using ground equipment, apply in 10.0 to 20.0 gallons of water per acre.

When applied as directed there are no grazing restrictions.

16.0 WOODY BRUSH AND TREES RATE TABLE (Alphabetical by Species)

Apply this product after full leaf expansion, unless otherwise directed. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation.

In arid areas, best results are obtained when applications are made in the spring to early summer when brush species are at high moisture content and are flowering.

Unless otherwise directed, apply broadcast treatments in 3.0 to 40.0 gallons of water per acre. Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

WEED SPECIES	RATE	HAND-HELD	COMMENTS
	(QT/A)	% SOLUTION	
Alder	3.0 to 4.0	1 to 1.5%	For control
Ash	2.0 to 5.0	1 to 2%	Partial control
Aspen, quaking	2.0 to 3.0	1 to 1.5%	For control
Bearmat (Bearclover)	2.0 to 5.0	1 to 2%	Partial control
Beech	2.0 to 5.0	1 to 2%	Partial control
Birch	2.0	1%	For control
Blackberry	3.0 to 4.0	1 to 1.5%	For control. Make applications after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. Applications may also be made after leaf drop and until a killing frost or as long as stems are green. After berries have set or dropped in late fall, blackberry can be controlled by applying a 0.5% solution of this product. For control of blackberries after leaf drop and until a killing frost or as long as stems are green, apply 3.0 to 4.0 qt of Mad Dog Plus in 10.0 to 40.0 gal of water/A.
Blackgum	2.0 to 5.0	1 to 2%	For control
Bracken	2.0 to 5.0	1 to 2%	For control
Broom; French Scotch	-	1.5 to 2%	For control
Buckwheat, California	-	1 to 2%	For partial control. Thorough coverage of foliage is necessary for best results.
Cascara	2.0 to 5.0	1 to 2%	Partial control
Catsclaw		1 to 1.5%	Partial control
Ceanothus		1 to 2%	Partial control
Chamise	1-	1%	For control. Thorough coverage of foliage is necessary for best results.

Cont'd. next page

WEED SPECIES	RATE (QT/A)	HAND-HELD % SOLUTION	COMMENTS
Cherry; bitter, black, pin	2.0 to 3.0	1 to 1.5%	For control
Coyote brush	-	1.5 to 2%	For control. Apply when at least 50% of the new leaves are fully
			developed.
Dogwood	2.0 to 5.0	1 to 2%	Partial control
Elderberry	2.0	1%	For control
Elm	2.0 to 5.0	1 to 2%	Partial control
Eucalyptus	-	2%	For control of eucalyptus resprouts, apply when resprouts are 6 to 12 feet tall. Ensure complete coverage. Avoid application to drought-stressed plants.
Florida holly (Brazilian peppertree)	2.0 to 5.0	1 to 2%	Partial control
Gorse	2.0 to 5.0	1 to 2%	Partial control
Hasardia	-	1 to 2%	Partial control. Thorough coverage of foliage is necessary for best results.
Hawthorn	2.0 to 3.0	1 to 1.5%	For control
Hazel	2.0	1%	For control
Hickory	2.0 to 5.0	1 to 2%	Partial control
Honeysuckle	3.0 to 4.0	1 to 1.5%	For control
Hornbeam, American	2.0 to 5.0	1 to 2%	Partial control
Kudzu	4.0	2%	For control. Repeat applications may be required to maintain control.
Locust, black	2.0 to 4.0	1 to 2%	Partial control
Madrone resprouts	-	2%	Partial control. Apply to resprouts that are 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.
Manzanita	2.0 to 5.0	1 to 2%	Partial control
Maple, red	2.0 to 4.0	1 to 1.5%	For control, apply a 1 to 1.5% solution when at least 50% of the new leaves are fully developed. For partial control, apply 2.0 to 4.0 qt of Mad Dog Plus/A.
Maple, sugar	-	1 to 1.5%	For control. Apply when at least 50% of the new leaves are fully developed.
Monkey flower	-	1 to 2%	Partial control. Thorough coverage of foliage is necessary for best results.
Oak; black, white	2.0 to 4.0	1 to 2%	Partial control
Oak, post	3.0 to 4.0	1 to 1.5%	For control
Oak; northern, pin	-	1 to 1.5%	For control. Apply when at least 50% of the new leaves are fully developed.
Oak, southern, red	2.0 to 3.0	1 to 1.5%	For control
Persimmon	2.0 to 5.0	1 to 2%	Partial control
Pine	2.0 to 5.0	1 to 2%	For control
Poison ivy/Poison oak	4.0 to 5.0	2%	For control. Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.
Poplar, yellow	2.0 to 5.0	1 to 2%	Partial control
Redbud, eastern	2.0 to 5.0	1 to 2%	For control
Rose, multiflora	2.0	1%	For control. Treatments should be made prior to leaf deterioration by leaf-eating insects.
Russian olive	2.0 to 5.0	1 to 2%	Partial control
Sage, black	-	1%	For control. Thorough coverage of foliage is necessary for best results.
Sage, white	2.0 to 5.0	1 to 2%	Partial control
Sage brush, California	-	1%	For control. Thorough coverage of foliage is necessary for best results.
Salmonberry	2.0	1%	For control
Salt-cedar Salt-cedar	2.0 to 5.0	1 to 2%	For control
Sassafras	2.0 to 5.0	1 to 2%	Partial control
Sourwood	2.0 to 5.0	1 to 2%	Partial control
Sumac; poison, smooth, winged	2.0 to 4.0	1 to 2%	Partial control
Sweetgum	2.0 to 3.0	1 to 1.5%	For control
Swordfern	2.0 to 5.0	1 to 2%	Partial control

WEED SPECIES	RATE (QT/A)	HAND-HELD % SOLUTION	COMMENTS
Tallowtree, Chinese	-	1%	For control. Thorough coverage of foliage is necessary for best results.
Tan oak resprouts	-	2%	For partial control. Apply to resprouts that are less than 3 to 6 feet tall. Best results are obtained with fall applications.
Thimbleberry	2.0	1%	For control
Tobacco, tree	-	1 to 2%	Partial control
Trumpetcreeper	2.0 to 3.0	1 to 1.5%	For control
/ine maple	2.0 to 5.0	1 to 2%	Partial control
/irginia creeper	2.0 to 5.0	1 to 2%	For control
Waxmyrtle, southern	2.0 to 5.0	1 to 2%	Partial control
Willow	3.0	1%	For control

Refer to the specific product labels and comply with all restrictions and application instructions for all products used in tank mixes.

17.0 STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed or seed by storage or disposal,

PESTICIDE STORAGE: Store above 10 °F (-12 °C) to keep product from crystallizing. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room 68 °F (20 °C) for several days to redissolve and roll or shake container or recirculate in mini-bulk or bulk container to mix well before using.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures. Emptied container retains vapor and product residue. Observe all labeled safeouards until container is cleansed, reconditioned, or destroyed.

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. Triple rinse or pressure rinse container for equivalent) promotly 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. Joint 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. 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 pesticide 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.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

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

18.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability, By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS. INC. or the seller is authorized to vary in any way.

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