

34704-686

12/11/2006

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

DEC 11 2006

Mr. John T. Tice
Loveland Products Inc.
7251 W 4th Street, PO Box 1286
Greeley, CO 80632-1286

Subject: Simazine 90 WDG
EPA Registration Number 34704-686
Resubmission dated October 12, 2006
Label resubmission dated December 7, 2006

Dear Mr. Head:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

- 1) On page 2, remove the text: "**Aerial application:** Use aerial application only where specified in the use directions. Apply in a minimum of 1 gal. of water for each 1-1.5 lbs. of herbicide applied per acre. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. Avoid application to animals or humans. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin" as aerial application is prohibited.
- 2) On page 2, revise the statement "The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information" to "**The applicator should be familiar with and take into account the following information:**"
- 3) On page 3, remove the text "Swath Adjustment: When applications are made with a cross wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)."

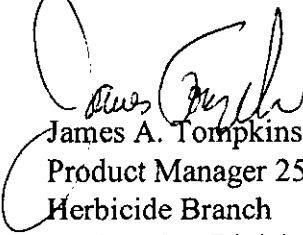
- 4) On page 5 and 6, either
 - a. remove the entire subsection **Tank Mixtures On Corn, AAtrex** or
 - b. replace the entire subsection **Tank Mixtures On Corn, AAtrex** with the following text: "Both simazine and atrazine share a common mechanism of toxicity; both are identified as triazine pesticides. If applying Simazine 90 WDG in a tank mixture with an atrazine product such as AAtrex Nine-O or AAtrex 4L, the total amount of triazine active ingredient applied to corn may not exceed the maximum application rate allowed for either single triazine. Therefore, if applying Simazine 90 WDG in a tank mixture with an atrazine product such as AAtrex Nine-O or AAtrex 4L, do not exceed a maximum of 2.0 lbs simazine and atrazine active ingredients combined as a as a single preemergence application on soils that are not highly erodible or on highly erodible soils, as defined by the Natural Resources Conservation Service, if at least 30% of the soil is covered with plant residues. If a second treatment is required following an earlier herbicide application, the total simazine and atrazine active ingredient applied may not exceed 2.5 lbs/acre per calendar year. Apply a maximum of 1.6 lbs. simazine and atrazine active ingredient combined per acre as a single preemergence application on highly erodible soils if < 30% of the soil is covered with plant residues."
- 5) On page 6, in the section CONDITIONS OF SALE, add "To the extent consistent with applicable law" before "The buyer or user of this product assumes all such inherent risks."
- 6) On page 6 and 7, replace all instances of "to the extent allowed by applicable law" to "to the extent consistent with applicable law."

Submit one (1) copy of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

PLEASE NOTE: The revision required in #4 above is based on a November 3, 2006 memo entitled "Occupational and Residential Risk Assessment to Support Request for a Section 3 Registration of Atrazine and Simazine (combined) on Corn, Christmas tree, Sod farm, and Residential Turf" by the Health Effects Division.

If you have any questions, please contact Hope Johnson at 703-305-5410.

Sincerely,



James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505P)



SIMAZINE 90 WDG

HERBICIDE

ACCEPTED
with COMMENTS
in EPA Letter Dated

DEC 11 2006

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

34704-086

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FOR WEED CONTROL IN CERTAIN CROPS

ACTIVE INGREDIENT:

Simazine: 2-chloro-4,6-bis(ethylamino)-s-triazine 90.0%

OTHER INGREDIENTS: 10.0%

TOTAL 100.0%

Simazine 90 WDG is a water-dispersible granule.

KEEP OUT OF REACH OF CHILDREN CAUTION

See additional precautionary statements and directions for use inside booklet.

FIRST AID

If on skin or clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL:
1-800-301-7976.

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EPA EST. NO. 34704-MS-2

NET WEIGHT 10 LBS (4.53 KG)

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing dust or spray mist. Avoid contact with eyes, skin, or clothing.

Personal Protective Equipment

Some materials that are chemically resistant to this product are made out of any water-proof material such as polyethylene, or polyvinyl chloride. If you want more options, follow the instructions for category "A" on the EPA chemical resistant chart. Mixers and loaders supporting groundboom applications must wear: coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant apron, chemical-resistant footwear plus socks and a NIOSH-approved respirator with a dust/mist filter (with MSHA/NIOSH approval number prefix TC-21C or with any N, R, P, or HE filter). If product contains oil or bears instructions that will allow application with an oil-containing material, the "N" designation must be dropped. All other mixers, loaders, applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves.

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

Engineering Control Statements

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4, 5)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

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

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

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

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

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

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

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

DIRECTIONS FOR USE

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

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SIMAZINE 90 WDG HERBICIDE

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ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Simazine Watershed Information Center (SWIC) to determine whether the use of this product is prohibited in your watershed. SWIC can be accessed through www.simazine-watershed.info or 1-888-365-2874. If the SWIC indicates that use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact Loveland Products, Inc. for a refund.

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

Aerial application is prohibited.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

For Christmas trees, do not enter or allow others to enter into treated areas during the restricted entry interval (REI) of 48 hours. For all other uses, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a dry place

PESTICIDE DISPOSAL: Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. Stay out of smoke from burning bags.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

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

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.

Do not enter or allow others (children or pets) to enter until sprays have dried.

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

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

This product is not for use in formulating end-use products for aquatic use.

When tank-mixing or sequentially applying simazine or products containing simazine, the total pounds of simazine applied must not exceed the specific maximum rate per calendar year as noted in the use directions.

GENERAL INFORMATION

Apply this herbicide before weeds emerge or after removal of weed growth. Simazine 90 WDG controls a wide variety of annual broadleaf and grass weeds when used at selective rates in agricultural crops.

Where a range of application rates is given, use the low rate on coarse-textured soil and soil lower in organic matter; use the high rate on fine-textured soil and soil higher in organic matter.

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

Since this product enters weeds mainly through their roots, moisture is needed to move it into the root zone. Very dry soil conditions and lack of rainfall following application may necessitate shallow cultivation.

This product is noncorrosive to equipment, nonflammable, and has low electrical conductivity.

Annual Weeds Controlled

alyssum	fivehook bassia	rattail fescue
annual bluegrass	Flora's paintbrush	redmaids
annual morningglory	Florida pusley	Russian thistle
annual ryegrass	foxtails	shepherdspurse
bernyardgrass	goosegrass	signalgrass
(watergrass)	groundsel	(<i>Brachiaria</i> spp.)
burclover	henbit	silver hairgrass
carelessweed	junglerice	smartweed
carpetweed	knawel (German moss)	spanishneedles
common chickweed	common lambsquarters	speedwell
crabgrass (<i>Digitaria</i> spp.)	nightshade	tansymustard
downy brome	pepperweed	wild mustard
(cheatgrass)	pigweed	wild oats
fall panicum	pineappleweed	witchgrass
fiddleneck	pricky lettuce	yellow flower pepperweed
filaree	common purslane	
fireweed	ragweed	

Resistance Management

Simazine 90 WDG is a Group 5 Herbicide (contains the active ingredient simazine).

Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by this and related herbicides. Where this is known or suspected, and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of this product in registered combinations or in sequence with other registered herbicides which are not triazines, i.e. which are not solely a Group 5 Herbicide. If only resistant biotypes are expected to be present, use a registered herbicide which is not solely a Group 5 Herbicide. Consult with your State Agricultural Extension Service for specific recommendations.

Perennial Crop Replanting

If replanting perennial crops, do not apply Simazine 90 WDG in the year preceding planting these crops, unless otherwise stated on this label, or crop injury may occur.

APPLICATION PROCEDURES

Ground application: Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. Be certain that nozzles are uniformly spaced and the same size. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers. Unless otherwise specified, use a minimum of 20 gals. of spray mixture per acre.

Use a pump with capacity to: (1) maintain 35-40 psi at nozzles, (2) provide sufficient agitation in tank to keep mixture in suspension, and (3) to provide a minimum of 20% bypass at all times. Use centrifugal pumps which provide propeller shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gals./minute/100 gals. tank size circulated through a correctly positioned sparger tube or jets.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Check nozzles manufacturer's recommendations.

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

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

Aerial application: Use aerial application only where specified in the use directions. Apply in a minimum of 1 gal. of water for each 1-1.5 lbs. of herbicide applied per acre. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

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

Spray Drift Management

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, and relative humidity) and methods of application (e.g., ground, chemigation) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

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

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

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift

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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 Inversion section of this label). Apply as a coarse or coarser spray (ASAE Standard 572).

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

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

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

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

Boom Length - For some use patterns, reducing the effective boom length to less than ¾ of the wingspan or rotor length may further reduce drift without reducing swath width.

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

For groundboom applications apply with a nozzle height no more than 4 feet above the ground or crop canopy.

Swath Adjustment

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

Wind

Drift potential is lowest between speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift. Do not apply at wind speeds greater than 10 mph.

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 should 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 connected cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

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

MIXING PROCEDURES

All Uses: (1) Be sure sprayer is clean and not contaminated with any other materials, as crop injury or sprayer clogging may result. (2) Fill tank ¼ full with clean water, nitrogen solution, or complete fluid fertilizer. (3) Start agitation. (4) Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface. (5) Pour product directly from bag into tank. (6) Continue filling tank until 90% full. Increase agitation if necessary to maintain surface action. (7) Add tank mix herbicide(s) after this product is thoroughly suspended. (8) Finish filling tank. Maintain agitation to avoid separation of materials. (9) Empty tank as completely as possible before refilling to prevent buildup of emulsifiable concentrate residue from possible tank mix herbicides. (10) If an emulsifiable concentrate film starts to build up in tank, drain it and clean with strong detergent solution or solvent. (11) Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent.

Compatibility test: To determine the tank mix compatibility of Simazine 90 WDG with liquid fertilizer, crop oil, spreaders, or recommended pesticides, use this test method. Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray in corn. Since liquid fertilizers can vary, even within the same analysis, check compatibility each time before use. Be especially careful when using complete suspension or fluid fertilizers, as serious compatibility problems are more apt to occur. Commercial

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application equipment may improve compatibility in some instances. Check compatibility using this procedure:

1. Add 1 pt. of fertilizer to each of 2 one-qt. glass jars with tight lids.
2. To one of the jars, add ¼ tsp. of a compatibility agent approved for this use (¼ tsp. is equivalent to 2 pts./100 gals. spray). Cap and shake until mixed. Examples of compatibility agents include Compex® and Unite®.
3. To both jars, add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next, and emulsifiable concentrates last. After each addition, cap and shake until thoroughly mixed. The appropriate amount of herbicides for this test follow (assuming a spray volume of 25 gals./A):

Dry herbicides: For each pound per acre, add 1.5 teaspoons to each jar. Fluff up wettable powder products before measuring.

Liquid herbicides: For each pint per acre, add 0.5 teaspoon to each jar.

For a spray volume other than 25 gals./A, change the teaspoons added to each jar as follows:

$$\frac{25 \text{ gals.} \times \text{no. teaspoons given above}}{\text{desired gals. spray volume per acre}} = \text{teaspoons to add to each jar}$$

4. After adding all ingredients, put lids on and tighten. Shake jars vigorously one minute. Let the mixtures stand 15 minutes and then look for separation, large flakes precipitates, grease, or medium to heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the 2 jars. If either mixture separates, but can be remixed readily, the mixture probably can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (A) slurry the dry herbicide(s) in water before addition, or (B) add ½ of the compatibility agent to the fertilizer and the other ½ to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If still incompatible, do not use the materials mixed in the same spray tank.

CROP USE DIRECTIONS

FRUIT AND NUT CROPS

Apply the spray to the orchard or vineyard floor, avoiding contact with fruit, foliage, or stems. Rates are based on broadcast treatment. For band applications or spot applications around fruit or nut trees, reduce the broadcast rate of this product and water per acre in proportion to the area actually sprayed.

Precautions (All fruit and nut crops): To avoid crop injury, (1) Apply only to orchards or groves where trees have been established 12 months or more, unless specified differently. (2) Make only one application per year, except as noted otherwise. (3) Do not use on gravelly, sand, or loamy sand soil. (4) Immediately following application, limit overhead sprinkler irrigation to ½ inch.

ALMONDS, PEACHES, AND NECTARINES (CA ONLY)

Apply 1.1 - 2.2 lbs. product (1 - 2 lbs. ai) per treated acre in a 2 - 4 foot band on each side of the tree row. Do not apply more than 2 lbs. ai per treated acre per calendar year in CA. Must be applied in a 2 - 4 ft band on each side of tree rows in CA. Do not apply more than once per calendar year. Apply before weeds emerge in late fall or early winter. Weeds controlled by 1.1 lbs. include burlover, common chickweed, wild mustard and shepherdspurse.

Precautions: To avoid crop injury, (1) Do not treat trees established in the grove less than 3 years. (2) Do not treat the Mission (TX) variety of almonds. (3) Do not apply to almond trees propagated on plum rootstocks. (4) Do not replant almonds, peaches, or nectarines in treated soil for 12 months after treatment. (5) Do not apply to soil with less than 1% organic matter. (6) Do not treat areas where water will accumulate.

APPLES, PEARS AND SOUR CHERRIES

Do not apply more than 4.4 lbs. product (4 lbs. ai/acre) per calendar year. Do not apply more than once per calendar year. APPLES ONLY - Pre-harvest interval: 150 days

AVOCADOS CA and FL Only:

Apply 2.2 - 4.4 lbs product (2 - 4 lbs. ai) per acre before weeds emerge in the spring. Do not apply more than 4 lbs. ai/acre per calendar year. Do not apply more than once per calendar year.

Precaution: Do not apply on gravelly, sand, or loamy sand soil.

BLUEBERRIES AND CANEBERRIES (BLACKBERRIES, BOYSBERRIES, LOGANBERRIES, RASPBERRIES)

Apply 2.2 to 4.4 lbs./acre (2 - 4 lbs. ai/acre) in the spring, or apply 2.2 lbs. product/acre (2 lbs. ai/acre) in the fall and 2.2 lbs. product/acre (2 lbs. ai/acre) in the spring. Do not apply more than 4.4 lbs. product (4 lbs. ai/acre) per calendar year. Do not apply more than twice per calendar year.

On plantings less than 6 months old, use ½ the above rate.

To control quackgrass, apply 4.4 lbs./A in the fall or split the application applying 2.2 lbs./A in the fall plus 2.2 lbs./A in the spring, when quackgrass is actively growing.

Note: Do not apply when fruit is present, or illegal residues may result.

CRANBERRIES

MA: Apply 2.2 - 4.4 lbs. product (2-4 lbs. ai) per acre, either before spring growth begins or in the fall after harvest. Do not apply more than 4 lbs. ai/acre per calendar year in MA.

Other Areas: Apply 2.2 lbs. product/A before spring growth begins. Do not apply more than 2 lbs. ai/acre per calendar year in all other states.

All States: Do not apply more than once per calendar year.

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FILBERTS

Apply 2.2 - 4.4 lbs. product (2 - 4 lbs. ai/acre) in the fall or apply a split application of 2.2 lbs. product/acre in the fall plus 2.2 lbs. product/acre in the spring. Do not apply more than 4 lbs. ai/acre per calendar year. Do not apply more than twice per calendar year.

Precautions: If trees are planted on a hillside, excessive soil erosion may result from the elimination of weeds. Do not apply on gravelly, sand, or loamy sand soil.

Note: Do not apply when nuts are on the ground during the harvest period, or illegal residues may result.

GRAPES

Apply 2.2 - 4.4 lbs. product (2 - 4 lbs. ai/acre) any time between early harvest and spring. Do not apply more than 4 lbs. ai/acre per calendar year. Do not apply more than once per calendar year.

Precaution: Do not use in vineyards established less than 3 years, or crop injury may occur.

GRAPEFRUIT, LEMONS AND ORANGES

AZ (Lemons and Oranges Only): Simazine may be applied once in the fall and once during the spring. Do not apply more than 1.6 lbs. ai/acre (1.75 lbs. product/acre) per application. Do not apply more than 3.2 lbs. ai/acre (3.5 lbs. product/acre) per calendar year.

CA (Grapefruit, Lemons and Oranges): Apply 2.2 to 4.4 lbs. product/acre (2 - 4 lbs. ai/acre) in a single application, or apply 2.2 lbs. product/acre (2 lbs. ai/acre) in the fall and 2.2 lbs. product/acre in the spring. Do not apply more than 4.4 lbs. product (4 lbs. ai/acre) per calendar year. Do not apply more than twice per calendar year.

Precaution: Do not use in the Imperial, Coachella, or Palo Verde valleys, or crop injury may occur.

FL (Grapefruit and Oranges Only): Apply 4.4 lbs. of Simazine 90 WDG to weed-free soil during the spring and/or fall to control weeds expected to emerge during these periods. Apply prior to emergence of weeds or if weeds have emerged, apply in tank mixture with a contact herbicide. Use caution to keep the treatment off the foliage, fruit, or trunk of citrus trees.

Do not apply more than 8.8 lbs. product (8 lbs. ai/acre) per calendar year. Do not apply more than 4.4 lbs. product (4 lbs. ai/acre) per application. Can be applied once during the fall and once during the spring.

For control of difficult species a maximum of 8.8 lbs. product (8.0 lbs. ai) per treated acre may be applied in a single application in the spring as a 50% band. Apply no more than 8.8 lbs. product (8.0 lbs. ai) of Simazine 90 WDG per treated acre as a single application in the spring using a 50% band application. The amount of Simazine 90 WDG applied per acre of field should not exceed 4.4 lbs. of product (4 lbs. ai). Apply in the spring growing season between January and April. Do not make a fall application if this treatment was used in the spring.

TX (Grapefruit and Oranges Only): Apply 2.2 to 4.4 lbs./acre (2.0 - 4.0 lbs. ai/acre) in a single application, or apply 2.2 lbs. product/acre (2.0 lbs. ai/acre) in the fall and 2.2 lbs. product/acre in the spring. Do not apply more than 4.4 lbs. product (4 lbs. ai/acre) per calendar year. Do not apply more than twice per calendar year.

Precautions (All areas): To avoid crop injury, (1) Do not use in nurseries, (2) Do not apply to bedded grapefruit, lemons, or oranges (except for FL grapefruit and oranges), (3) Do not apply to trees under stress from freeze damage for one year after the freeze, (4) In FL, do not exceed 8.8 lbs. of Simazine 90 WDG during any one growing season, (5) Do not exceed 4.4 lbs./acre/year of Simazine 90 WDG on grove planted trees 1 year old or less, or crop injury may occur. Note: Dark-red grapefruit hybrids, e.g. "Star Ruby", have a higher risk of crop injury than non-dark-red types.

MACADAMIA NUTS

Apply 2.2 - 4.4 lbs. product (2 - 4 lbs. ai) in 50 gallons of water per acre before harvest and just prior to weed emergence. Do not apply more than 4 lbs. ai/acre per calendar year. Do not apply more than once per calendar year.

Note: Do not apply when nuts are on the ground during the harvest period, as illegal residues may result.

OLIVES

Apply 2.2 - 4.4 lbs. product (2 - 4 lbs. ai/acre) following grove preparation in the fall. Do not apply more than 4 lbs. ai/acre per calendar year. Do not apply more than once per calendar year.

PEACHES, PLUMS, AND SWEET CHERRIES

Apply 1.75 - 4.4 lbs. product/acre (1.57 - 4 lbs. ai/acre) in late fall to early spring prior to weed emergence.

Plums and Cherries: do not apply more than 4.4 lbs. product (4 lbs. ai/acre) per calendar year. Do not apply more than once per calendar year.

Sweet Cherries (OR Only) Apply 1.75 - 4.4 lbs. product/acre (1.57 - 4 lbs. ai/acre) in a minimum of 20 gal of water/acre in late fall to early spring prior to weed emergence. When retreating in subsequent seasons, especially if preemergence weed populations are low, reduce the dosage to two to three pounds product maximum per acre. Do not apply on gravelly, sand or loamy sand soil. Do not apply to orchards where trees have been established for less than two years. Do not apply this product through any type of irrigation system.

Peaches: Do not apply more than 4 lbs. product/acre (4 lbs. ai/acre) per calendar year. Do not apply more than once per calendar year.

Precautions: To avoid crop injury, (1) **Peaches:** use only in AR, LA, MO, OK, TX, and states East of the Mississippi River. For CA, see specific instructions in the Almonds, Peaches, and Nectarines (CA only) section. (2) **Plums and Sweet Cherries:** use only in OR, MO and states East of the Mississippi River, except TN.

PECANS

Apply 2.2 - 4.4 lbs. product (2-4 lbs. ai/acre) before weeds emerge in the spring. Do not apply more than 4 lbs. ai/acre per calendar year. Do not apply more than once per calendar year.

Precautions: To avoid crop injury, (1) Do not use west of the Pecos River in TX or in AZ, CA or NM. (2) Do not make applications to transplanted trees that have been established less than 2 years in the grove.

Note: Do not apply when nuts are on the ground, or illegal residues may result. Do not allow animals to graze treated areas.

STRAWBERRIES OR and WA Only:

For control of chickweed, groundsel, mustard, and shepherdspurse, apply broadcast 1.1 lbs. product/acre (1.0 lb. ai/acre). Do not apply more than 1 lb. ai/acre per calendar year. Do not apply more than once per calendar year. In fields where overhead irrigation is used to activate this product, apply after harvest at time of bed renovation. In fields where overhead irrigation is not available, apply during early October through November.

Precautions: To avoid crop injury, (1) Make only one application per growing season. (2) Do not apply within 4 months after transplanting.

WALNUTS

Apply 2.2 - 4.4 lbs. product (2 - 4 lbs. ai/acre) before weeds emerge in the spring. Do not apply more than 4 lbs. ai/acre per calendar year. Do not apply more than once per calendar year. Leveling and furrowing operations after application will lessen effectiveness of weed control.

Note: Do not apply when nuts are on the ground, or illegal residues may result.

Tank Mixture with Bromacil 80W for Grapefruit and Oranges (FL Only)

Use in grapefruit and oranges in FL for control of balsamapple, black nightshade, carpetweed, crabgrass, cudweed, dayweed, Florida pusley, horseweed, pepperweed, pigweed, poorjoe, ragweed, rattlebox, spanishneedles, and sandbur, and for partial control of bermudagrass, bahiagrass, pangolagrass, paragrass, and torpedograss. Apply 4.4 lbs. of Simazine 90 WDG plus 3 - 4 lbs. of Bromacil 80W per acre beneath trees in a minimum of 40 gals. of water per acre before or soon after weed growth begins. Use caution to keep the spray off the foliage, fruit or trunk of citrus trees. Temporary yellowing of citrus leaves may occur following treatment.

Follow use and precautionary directions on the Bromacil label.

Precautions: To avoid crop injury, (1) Do not use in nurseries or where trees are under stress from freeze damage for one year after the freeze. (2) Do not use on soil with less than 1% organic matter or on poorly drained soil. (3) Do not treat trees planted in irrigation furrows. (4) Do not treat diseased trees, such as those with foot rot. (5) Do not use in groves interplanted with other trees or desirable plants, nor in home grapefruit or orange plantings, or in areas where roots of other valuable plants or trees may extend. (6) Treated areas may be planted to citrus trees one year after application. (7) Do not rotate to other crops within 2 years after application.

Note: Apply only once per year and avoid contact with foliage and fruit with spray or mist, or illegal residues may result.

Tank Mixture with Gramoxone Inteon™

This tank mix is effective in the following fruit and nut crops for kill of existing vegetation and for residual control of the annual broadleaf and grass weeds claimed for this product applied alone. This combination is also effective for top kill and suppression of perennial weeds. In FL, this mixture may be applied in spring or fall to emerged weeds.

Use this tank mix on these crops:

almonds (CA only)	macadamia nuts
apples	olives
avocados (CA and FL ¹ only)	oranges ²
cherries (sour and sweet ⁴)	peaches ³
filberts	pears
grapefruit (CA and TX only)	pecans
grapes	plums ⁴
lemons (AZ and CA only)	walnuts

Apply the rate given under the appropriate crop on this label plus the appropriate labeled rate of Gramoxone Inteon in 50 - 200 gals. (30 - 50 gals. for pecans) of water per acre to the orchard floor, avoiding contact with fruit, foliage, or stems. Add a nonionic surfactant, such as X-77®, at 0.5 pt./100 gals. of spray. Apply when weeds are succulent and new growth is 1-6 inches tall. For mature woody weeds or difficult to control perennial weeds, re-treat or spot treat with Gramoxone Inteon if regrowth occurs.

Add this product to the spray tank first (refer to the **Mixing Procedures** section of this label), then add Gramoxone Inteon, and add the surfactant last. Provide constant agitation during mixing and application to keep the mixture in suspension.

Precautions: To avoid crop injury, (1) Apply the tank mix only once per year. (2) Use a shield for young trees or vines.

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FIELD, SWEET CORN AND FORAGE CROPS

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Refer to the labels of both products for further directions, specific weeds controlled, and precautions and limitations on each crop.

- In avocados in FL, this tank mix also controls balsam apple vine, rattail amaranth, and at the higher rate of each herbicide, it suppresses coral vine.
- In oranges in FL, apply 4.4 lbs. of this product per acre per application during spring or fall. Do not exceed 8.8 lbs. of Simazine 90 WDG during any one growing season.
- Limited to AR, CA, LA, MO, OK, TX, and states east of the Mississippi River. As appropriate, refer to the sections **Almonds, Peaches, and Nectarines (CA only)** or **Peaches, Plums, and Sweet Cherries** for rate of this product and other information.
- Limited to MO and states east of the Mississippi River, except TN.

Tank Mixture with Roundup® or Touchdown® Brand Herbicides

This tank mixture is effective in grape vineyards and in the following bearing or non-bearing tree crops for control of existing vegetation and for residual control of the annual broadleaf and grass weeds claimed for this product applied alone. This combination is also effective for partial control of perennial weeds contacted by the spray mixture during application.

Use this tank mixture on these crops:

almonds** (CA only)	macadamia nuts**
apples*	oranges*** (AZ, CA, FL and TX)
avocados* (CA and FL only)	peaches**** 1
cherries (sour and sweet)**** 2	pears**
filberts**	pecans**
grapefruit*** (CA, FL and TX)	plums**** 2
grapes*	walnuts**
lemons* (AZ and CA)	

Use the appropriate rate given elsewhere on this label for Simazine 90 WDG applied alone to the crop being treated. Add to the spray tank the appropriate labeled rate of a Roundup or Touchdown brand product per acre, depending on weeds present and their growth stage. Also add an agriculturally approved nonionic surfactant at 0.5% by volume of spray solution. Apply the mixture in 10 - 40 gals. of water per acre as a postemergence spray to the weeds at the appropriate weed growth stage given on the Roundup label.

Add Simazine 90 WDG to the spray tank first, then add the Roundup or Touchdown brand product per acre, depending on weeds present and their growth stage. Provide constant agitation during mixing and application to keep the mixture in suspension. Refer to the **Application Procedures** section of this label for further directions.

Precaution: To avoid crop injury, take extreme care to avoid contact of herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit, or other parts of trees or vines. Observe precautions on both the Simazine 90 WDG and Roundup or Touchdown labels for each crop involved.

Always refer to the labels of both herbicides for further directions, specific weeds controlled, precautions, and limitations on each crop.

- *Allow a minimum of 14 days between last application and harvest
- **Allow a minimum of 21 days between last application and harvest of these crops.
- ***Allow a minimum of 1 day between last application and harvest of these crops.
- ****Allow a minimum of 17 days between last application and harvest of these crops.

- Limited to AR, CA, LA, MO, OK, TX, and states east of the Mississippi River. For CA, see specific directions in the **Almonds, Peaches, and Nectarines (CA only)** section.
- Plums and sweet cherries; limited to MO and states east of the Mississippi River, except TN.

Tank Mixture with Solicam®

For improved control of such weeds as clover, cutleaf eveningprimrose, dandelion, henbit, horseweed or marestail, lambsquarters, and puncturevine, apply Simazine 90 WDG in tank mixture with Solicam DF on these crops:

oranges grapefruit lemons

Apply 4.4 lbs./A of Simazine 90 WDG plus 4 - 5 lbs. of Solicam DF Herbicide (78.6% active ingredient) in 20 - 100 gals. of water per acre. Simazine 90 WDG + Solicam may be applied in tank mixture with Gramoxone Extra or Roundup. Follow the labeled directions and restrictions of use on labels of the herbicides used in mixtures with Simazine 90 WDG.

Precaution: Keep Simazine 90 WDG + Solicam mixtures from contacting foliage, fruits, and stems of citrus trees during spraying.

Tank Mixture with Surfian®

Use this tank mix in the following crops for preemergence control of all weeds claimed on both labels:

almonds	filberts	peaches
apples	grapefruit	pears
avocados	grapes	pecans
caneberries	lemons	plums
cherries	oranges	English walnuts

Apply the Simazine 90 WDG rate given under the appropriate crop on this label plus 2.67 - 5.33 lbs. of Surfian 75W or 2 - 4 qts. of Surfian A.S. in 20 - 40 gals. of water per acre. Refer to the Surfian 75W or Surfian A.S. label for complete tank mix directions. Observe all precautions and limitations on the Simazine 90 WDG and Surfian labels.

CORN

Nitrogen solutions or complete fluid fertilizers may replace all or part of the water as a carrier in the spray. Determine the physical compatibility of this product with fertilizer before use. Refer to the General Information section of this label for a compatibility test. Do not apply after corn has emerged, as there is danger of liquid fertilizers causing crop injury.

Preemergence: Apply before weeds and corn emerge. Use the appropriate rate detailed below.

Preplant: Apply in the spring after plowing at the appropriate rate in the following table. Apply before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. Best results will be obtained when this product is applied within 2 weeks before planting. Under dry weather conditions, preplant applications may give better weed control. If weeds develop, particularly under relatively dry conditions, a shallow cultivation will generally result in better weed control.

Apply a maximum of 2.2 lbs. product/acre (2.0 lbs. a/acre) as a single preemergence application on soils that are not highly erodible or on highly erodible soils, as defined by the *Natural Resources Conservation Service*, if at least 30% of the soil is covered with plant residues. If a second treatment is required following an earlier herbicide application, the total simazine applied may not exceed 2.7 lbs. product/acre (2.5 lbs. a/acre) per calendar year.

Apply a maximum of 1.8 lbs. product/acre (1.6 lbs. a/acre) as a single preemergence application on highly erodible soils if < 30% of the soil is covered with plant residues.

Pre-grazing/pre-harvest interval for field corn: 80 days.

Pre-grazing/pre-harvest interval for sweet corn: 45 days.

*For calculation of band treatment rate, see the **General Information** section.

To control quackgrass: Apply maximum rate in the fall. Plow 2 - 3 weeks later or if erosion is a problem, delay plowing until spring.

WINTER ANNUAL BROADLEAF CONTROL - PREEMERGENCE FALL APPLICATION

For preemergence control of winter annual weeds, such as common chickweed, henbit, shepherds-purse, tansymustard, wild mustard, annual bluegrass, downy brome, and others, broadcast 1.1 lbs./A of Simazine 90 WDG after harvest of the preceding crop and prior to weed emergence on land to be planted to corn the following year. A tillage operation may precede the application. Do not apply to frozen ground. If Simazine 90 WDG is used in the fall corn weed control program, do not exceed 2.2 lbs. of Simazine 90 WDG preemergence in the spring.

Precautions: (1) Do not apply more than 4.4 lbs./A to corn per year. (2) Do not rotate to any crop except corn until the following year, or injury may occur. (3) After harvest, plow and thoroughly till the soil in fall or spring to minimize possible injury to spring-seeded rotational crops, regardless of the rate used. (4) If more than 3.3 lbs./A is used (or equivalent rate in a band), a crop of untreated corn should precede the next rotational crop. (5) Do not apply preplant incorporated in corn in the High Plains and Intermountain areas of the West (including central and western KS, western NE, western OK, and the Panhandle of TX) where rainfall is sparse and erratic or where irrigation is required. (6) In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use this product to control weeds in corn only when corn is to follow corn or when a crop of untreated corn is to precede another rotational crop. (7) In western MN and eastern parts of the Dakotas, KS and NE, do not plant soybeans following corn treated with this product if more than 2.2 lbs./A (or equivalent rate in a band) was applied, or injury may occur. (8) Injury may occur to soybeans planted in north-central and northwest IA, south-central and southwest MN, northeast NE, south-east SD, and other areas the year following application on soils having a calcareous surface layer. (9) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year after an application, or injury may occur.

Note: Do not graze treated areas, or illegal residues may result.

Tank Mixtures on Corn

AAtrex®: Use this product in a preplant or preemergence tank mixture with AAtrex® Nine-O®, or AAtrex 4L for control of many annual weeds, including carpetweed, crabgrass, fall panicum, foxtail, lambsquarters, morningglory, pigweed, ragweed, and velvetleaf.

Apply at the rates given below. Use the 1:1 ratio for most weeds and the 2:1 ratio for expected heavy infestation of crabgrass and fall panicum.

Soil Texture	Broadcast Rate Per Acre			
	1:1 Ratio		2:1 Ratio	
	Simazine 90 WDG	AAtrex Nine-O*	Simazine 90 WDG	AAtrex Nine-O*
Sand, loamy sand, sandy loam	1.1 lbs.	1.1 lbs.	1.5 lbs.	0.75 lbs.
Loam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with low organic matter	1.33 lbs.	1.33 lbs.	1.8 lbs.	0.9 lbs.
Loam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with medium to high organic matter, and clay (including dark prairie soils of the Corn Belt)	1.6 lbs.	1.6 lbs.	2.1 lbs.	1.05 lbs.

*When using AAtrex 4L or AAtrex Nine-O, use equivalent atrazine rates. One qt. of AAtrex 4L equals 1.1 lb. of AAtrex Nine-O.

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Refer to the AAtrex label for complete directions, and use 1.1 lb. of this product for each qt. of Simazine 90 WDG. Also refer to the AAtrex label and the Corn section of this label for precautions and limitations.

Gramoxone Inteon: Use in a tank mixture where corn will be planted directly in a cover crop, established sod, or previous crop residues. This combination controls existing vegetation and provides residual control of the annual broadleaf and grass weeds listed under the **General Information** section.

Add this product to the spray tank, mix thoroughly with water, and then add Gramoxone Inteon and a nonionic surfactant. Provide constant agitation during mixing and application to keep the mixture in suspension.

Apply the specified rate in the corn section plus the appropriate labeled rate of Gramoxone Inteon in 20 - 60 gals. of water per acre as a broadcast spray either before or after planting, but before corn emerges. Add a nonionic surfactant at the rate of 0.5 pt./100 gals. of spray volume.

For further information, see general information, caution and warning statements, precautions, and notes on the Simazine 90 WDG and Gramoxone Inteon labels.

NURSERIES, CHRISTMAS TREE PLANTINGS, SHELTERBELTS AND PLANTATIONS FOR TIMBER NURSERIES (SEE LIST BELOW)

Apply 2.2 - 3.3 lbs. product (2 - 3 lbs. ai) per acre in at least 25 gals of water in Fall or Spring. Do not apply more than 3 lbs. ai/acre per calendar year. Do not apply more than once per calendar year.

Precautions: To avoid plant injury, do not apply for at least one year after transplanting.

CHRISTMAS TREE PLANTINGS AND SHELTERBELTS

Remove weed growth before application. Apply 2.2 - 4.4 lbs. product (2 - 4 lbs. ai/acre) in at least 25 gals. of water per acre after transplanting. Use the same rate for annual maintenance applications.

For quackgrass control, 4.4 lbs./acre (4 lbs. ai/acre) in the fall or apply a split application of 2.2 lbs./A in the fall plus 2.2 lbs./A in early spring, after quackgrass begins growth. Do not apply more than 4 lbs. ai/acre per calendar year. Do not apply more than twice per calendar year.

TREE PLANTATIONS FOR TIMBER (Black walnut, Slash pine, White pine and Loblolly pine only)

Apply 2.2 - 4.4 lbs. product (2 - 4 lbs. ai/acre) to control weeds. Do not apply more than 4 lbs. ai/acre per calendar year. Do not apply more than once per calendar year.

Precautions: To avoid tree injury, (1) Do not use on seedbeds or cutting beds. (2) In CA, OR, and WA, do not apply to Christmas trees or shelterbelts sooner than one year after transplanting. In other areas, do not apply to Christmas trees or shelterbelt transplants less than 2 years of age. (3) Do not use until soil is firmly settled around roots. (4) Do not apply more than once a year, except as directed for quackgrass control. In OR do not apply this product through any type of irrigation system.

Apply to these species of trees and shrubs, as described above:

Conifers

Black Hills spruce	Concolor fir	Ponderosa pine
eastern red cedar	Colorado blue spruce,	Rocky Mountain juniper

Deciduous Trees and Woody Ornamentals

Apricot	Dogwood	Maple, silver
Amur chokecherry	Golden current	Maple, amur
Ash, green	Hackberry	Mulberry
Boxelder	Hawthorn	Oak, bur
Buffaloberry	Honeysuckle	Pear, Harbin
Caragana (Siberian peashrub)	Junaberry	Plum
Cherry, Mongolian	Kentucky coffee tree	rose, Hanson hedge
Cherry, Nanking	Larch	Russian almond
Chokecherry	Linden	Skunkbush smac
Crabapple	Maple, Norway	Walnut, black
	Maple, red	

Pennant MAGNUM™ Tank Mix: Simazine 90 WDG may be tank mixed with Pennant MAGNUM to control weeds in containerized, field, and liner* grown ornamentals and commercial landscapes. See the Pennant label for ornamental species, weeds controlled with this tank mixture and for other information.

*Plants transplanted normally in rows in a nursery or similar area for further growth prior to transplanting to final growing place.

Surflan Tank Mix: On Christmas tree plantings, use this tank mix for preemergence control of weeds listed on this label and the Surflan 75W (or Surflan A.S.) label. Use on field grown conifer species listed on the labels for each herbicide plus grand fir, alpine fir, Engelmann spruce, black spruce, Colorado blue spruce, Coulter pine, giant redwood, and Veitchi fir. Broadcast the mixture as a directed spray to the soil surface or as an overtop spray, using 2.2 - 4.4 lbs. of Simazine 90 WDG and 2.67 - 5.33 lbs. of Surflan 75W (or 2 - 4 qts. of Surflan A.S.). Apply in sufficient water per acre to uniformly treat the area. Follow overtop sprays with sprinkler irrigation to move the herbicide from leaf surfaces to the soil. Remove weed growth before application. Mix weed residues, prunings, or trash into the soil, or remove them before treatment. Soil should be in good till and free of clods at time of application. Shallow cultivation (1 - 2 inches) after treatment will not

reduce weed control. Observe all precautions and limitations on the Simazine 90 WDG and Surflan labels.

Note: Length of weed control may be reduced when continuous wet soil conditions follow herbicide application.

Precautions: To avoid plant injury, (1) Do not use on seedbeds or on unrooted cuttings. (2) Do not use in greenhouses or other enclosed areas.

TURFGRASS FOR SOD (FL ONLY)

St. Augustinegrass, Centipedegrass, and Zoysiagrass

Apply 2.2-4 lbs./A (2-4 lbs. ai), according to soil texture as indicated below.

Muck or peat (4 lbs. ai)	4.4 lbs.	Old beds	Within 2 days after lifting of sod
		New beds	3 - 4 days after sprigging or plugging
Sandy soil (2 lbs. ai)	2.2 lbs.	Old beds	Within 2 days after lifting of sod
		New beds	7 - 10 days after sprigging or plugging

If weeds regrow, apply an additional 2.2 lbs. on muck or peat, or 1.1 lbs. on sandy soil. This product must be watered in immediately after application if applied at a rate greater than 2 lbs. ai/acre.

Precautions: To avoid crop injury, (1) Do not apply within 30 days prior to cutting or lifting. (2) Do not apply in combination with surfactants or other spray additives. (3) Use only on turfgrass reasonably free of infestations of insects, nematodes, and diseases. (4) On newly sprigged turfgrass, temporary slowing of growth may follow application.

TURFGRASS FOR FAIRWAYS, LAWNS, SOD PRODUCTION*, AND SIMILAR AREAS

*In states other than FL. For use on turfgrass for sod in FL, see Turfgrass for Sod (FL Only) section.

BERMUDAGRASS, CENTIPEDEGRASS, ST. AUGUSTINEGRASS, AND ZOYSIAGRASS

Apply Simazine 90 WDG after September 1 (after October 1 for annual bluegrass) before emergence of winter annual weeds. Fall applications of Simazine 90 WDG will control annual bluegrass, burclover, lawn burweed, common and mouseear chickweed, corn speedwell, henbit, hop clover, spurweed, and parsley-piert. Simazine 90 WDG will also control these weeds soon after emergence. For control of summer annual weeds listed in the General Information section of this label, apply Simazine 90 WDG in late winter before the weeds emerge. Apply in a minimum of 15 gals. of water per acre.

Irrigate with ½ inch of water if rainfall does not occur within 10 days after preemergence treatment.

Where annual bluegrass is the major weed, use 1.1 lbs. of Simazine 90 WDG per acre (0.4 oz. per 1,000 sq. ft.). Use 1.1 - 2.2 lbs./A (0.4 - 0.8 oz. per 1,000 sq. ft.) for control of other weeds. However, do not exceed 1.1 lbs./A per treatment on newly sprigged turfgrass or on hybrid bermudagrass.

For control of summer annuals, which emerge after the initial application, apply an additional 1.1 lbs./A at least 30 days after the initial application, but not after June 1. However, do not make more than 2 applications per year.

Precautions: On newly sprigged turfgrass, hybrid bermudagrass, nondormant bermudagrass or nondormant zoysiagrass, temporary slowing of growth and yellowing may occur following application. To avoid turf injury, (1) use only on turfgrass reasonably free of infestations of insects, nematodes, and diseases. (2) Do not use on golf greens. (3) Do not use north of NC (except in the VA Coastal Plains) or on soils with a pH above 7.8 (4) Do not use on muck or alkaline soils. (5) Do not apply over the rooting area of trees or ornamentals not listed on this label. (6) Do not seed or overseed with desirable turfgrass within 4 months before or 6 months after treatment. (7) Do not apply this product to newly seeded grasses until they have overwintered and have a well-developed rhizome system. (8) Do not exceed 2.2 lbs./A within 12 months of seeding grasses. Note: Do not graze or feed turf clippings to animals, or illegal residues may result.

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.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL, THIS PRODUCT IS SOLD AS IS TO THE EXTENT ALLOWED BY APPLICABLE LAW. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

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EPA REG. NO. 34704-686

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL, BUYER OR USER MUST SEND, TO THE EXTENT REQUIRED BY APPLICABLE LAW, WRITTEN NOTICE OF SUCH CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, 7251 WEST 4TH STREET, GREELEY, CO 80634.

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