

34704-916

7/14/2011

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

EPA Registration Number:

34704-916

Date of Issuance:

JUL 14 2011

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance: **Unconditional**

Name of Pesticide Product:
Simazine 90 Herbicide

Name and Address of Registrant (include ZIP Code):

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

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

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

EPA received a label amendment request submitted on July 14, 2011. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistration Eligibility Decision (RED) for **simazine** have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after twelve (12) months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

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

Signature of Approving Official:

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

Date:

JUL 14 2011



SIMAZINE 90

HERBICIDE

FOR WEED CONTROL IN CERTAIN CROPS

ACTIVE INGREDIENT:

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

OTHER INGREDIENTS: 10.0%

TOTAL 100.0%

Simazine 90 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 to 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 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 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</p>	

ACCEPTED
~~with COMMENTS~~
in EPA Letter Dated

JUL 14 2011

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

34704-916

EPA REG. NO. 34704-916

EPA EST. NO. 34704-MS-002

NET WEIGHT 10 LBS (4.53 KG)

EXP 04/09

**SIMAZINE 90 HERBICIDE
EPA REG. NO. 34704-916**

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

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

Personal Protective Equipment (PPE)

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

Mixers and loaders supporting groundboom applications must wear:

- Coveralls over long-sleeve shirt and long pants,
- Chemical-resistant footwear plus socks,
- Chemical-resistant gloves,
- Chemical-resistant apron,
- NIOSH-approved respirator with a dust/mist filter (with MSHA/NIOSH approval number prefix TC-21C or with any R, P, or HE filter).

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Chemical resistant gloves,
- Shoes plus socks.

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

Engineering Control Statements

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protections 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 and loamy sand soils where the water table (ground water) is close to the surface and where the 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.

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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 within 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 crop, or seeded with grass or other suitable crops.

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 rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain 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 to the 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 to 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

Aerial application is prohibited.

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

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the 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 shall 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.

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.

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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 worker entry into treated area during the restricted entry interval (REI) of 48 hours. For all other crops and use patterns, do not enter or allow worker entry into treated areas during the 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,
- Shoes plus socks.

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 (including 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.

PRODUCT INFORMATION

Apply this herbicide before weeds emerge or after removal of weed growth. Simazine 90 Herbicide 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.

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Annual Weeds Controlled

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

Resistance Management

Simazine 90 Herbicide 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 Herbicide 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 20.0 gallons of spray mixture per acre.

Use a pump with capacity to: (1) maintain 35 to 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 10.0 gallons per minute per 100 gallons 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:

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

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Spray Drift Management

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method 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.

Wind Speed

Do not apply at wind speeds greater than 10 mph.

Droplet Size

Apply as a coarse or coarser spray (ASAE standard 572).

Release Height

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

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 1/4 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 Herbicide 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 application equipment may improve compatibility in some instances. Check compatibility using this procedure:

1. Add 1 pint of fertilizer to each of two 1-quart glass jars with tight lids.
2. To **one** of the jars, add 1/4 teaspoon of a compatibility agent approved for this use (1/4 teaspoon, is equivalent to 2.0 pints per 100 gallons spray). Cap and shake until mixed. Examples of compatibility agents include Compex® and E-Z Mix.
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 gallons per acre):

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 25.0 gals/A, change the teaspoons added to each jar as follows:

$$\frac{25 \text{ gallons} \times \text{number, teaspoons given above}}{\text{desired gallons spray volume per acre}} = \text{teaspoons to add to each jar}$$

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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, gels, 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 1/2 of the compatibility agent to the fertilizer and the other 1/2 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. Specified 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 1/2 inch.

Almonds, Peaches, and Nectarines (CA Only)

Must apply 1.1 to 2.2 pounds per treated acre in a 2 to 4-ft band on each side of the tree row. Apply before weeds emerge in late fall or early winter. Weeds controlled by 1.1 pounds include burclover, common chickweed, wild mustard and shepherdspurse. Do not apply more than 2.2 pounds per treated acre (2.0 pounds active ingredient per treated acre) per calendar year. Do not apply more than once per calendar year.

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 Tart Cherries

Apply 2.2 to 4.4 pounds per acre. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per acre) per calendar year. Do not apply more than once per calendar year. For apples, the pre-harvest interval is 150 days.

Avocados Apply only in CA and FL

Apply 2.2 to 4.4 pounds per acre after final preparation of grove. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per acre) per calendar year. Do not apply more than once per calendar year.

Blueberries and Caneberries (Blackberries, Boysenberries, Loganberries, Raspberries)

Apply 2.2 to 4.4 pounds per acre in the spring or apply a split application of 2.2 pounds per acre in the spring plus 2.2 pounds per acre in the fall. Apply in a minimum of 40.0 gallons of water per acre.

On plantings less than 6 months old, use 1/2 the above rate.

To control quackgrass, apply 4.4 pounds per acre in the fall or split the application applying 2.2 pounds per acre in the fall plus 2.2 pounds per acre in the spring, when quackgrass is actively growing. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per acre) per calendar year. Do not apply more than twice per calendar year.

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

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Cranberries

MA: Apply up to 4.4 pounds per acre, either before spring growth begins or in the fall after harvest. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per acre) per calendar year. Do not apply more than once per calendar year.

Other Areas: Apply 2.2 pounds per acre before spring growth begins. Do not apply more than 2.2 pounds per acre (2.0 pounds active ingredient per acre) per calendar year. Do not apply more than once per calendar year.

Filberts

Apply 2.2 to 4.4 pounds per acre in the fall or apply a split application of 2.2 pounds per acre in the fall plus 2.2 pounds per acre in the spring. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per acre) per calendar year. Do not apply more than twice per calendar year.

Precaution: If trees are planted on a hillside, excessive soil erosion may result from the elimination of weeds.

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

Grapes

Apply 2.2 to 4.4 pounds per acre any time between harvest and early spring. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per 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): Apply a split application of 1.77 pounds per acre in the spring plus 1.77 pounds per acre in the fall. Do not apply more than 3.54 pounds per acre (3.2 pounds active ingredient per acre) per calendar year. Do not apply more than 1.77 pounds per acre (1.6 pounds active ingredient per acre) per application.

CA (Grapefruit, Lemons and Oranges): Apply 2.2 to 4.4 pounds per acre in a single application, or apply 2.2 pounds per acre in the fall and 2.2 pounds per acre in the spring. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per 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):

Broadcast Applications:

Apply up to 4.4 pounds of Simazine 90 Herbicide per application to weed-free soil once during the spring and/or once during the 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 pounds per acre (8.0 pounds active ingredient per acre) per calendar year. Do not apply more than twice per calendar year.

For control of difficult species, such as balsamapple and spanishneedles, and partial control of honeyvine milkweed, apply no more than 8.8 pounds per acre (8.0 pounds active ingredient per acre) as a single application in the spring using a 50% band application. The amount applied per acre of field must not exceed 4.4 pounds per acre (4 pounds active ingredient per acre). Apply once in the spring growing season between January and April. Do not make a fall Simazine 90 Herbicide application if this treatment was used in the spring. When emerged weeds are present, apply Simazine 90 Herbicide in tank mixture with a recommended contact herbicide. Follow all directions, precautions, limitations, etc. on the tank mix product.

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TX (Grapefruit and Oranges Only): Apply 2.2 to 4.4 pounds per acre. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per 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) Do not exceed 4.4 pounds per acre per year of Simazine 90 Herbicide on grove planted trees 1 year old or less, or crop injury may occur.

Note: Dark-red grapefruit hybrids, i.e. "Star Ruby", have a higher risk of crop injury than non-dark-red types.

Macadamia Nuts

Apply 2.2 to 4.4 pounds in 50.0 gallons of water per acre before harvest and just prior to weed emergence. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per 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 to 4.4 pounds per acre following grove preparation in the fall. Repeat annually in midwinter. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per acre) per calendar year. Do not apply more than once per calendar year.

Peaches, Plums, and Sweet Cherries

Apply 1.77 to 4.4 pounds per acre. Apply in late fall to early spring prior to weed emergence. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per 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 directions in the **Almonds, Peaches and Nectarines (CA Only)** section. (2) Plums and sweet cherries: use only in MO and states east of the Mississippi River, except TN.*

Pecans

Apply 2.2 to 4.4 pounds per acre before weeds emerge in the spring. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per 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

Apply only in OR and WA: For control of chickweed, groundsel, mustard, and shepherdspurse, apply broadcast 1.1 pounds per acre. 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. Do not apply more than 1.1 pounds per acre (1.0 pound active ingredient per acre) per calendar year. Do not apply more than once per calendar year.

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

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Walnuts

Apply 2.2 to 4.4 pounds per acre. Leveling and furrowing operations after application will lessen effectiveness of weed control. Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per acre) per calendar year. Do not apply more than once per calendar year.

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 pounds of Simazine 90 Herbicide plus 3.0 to 4.0 pounds of Bromacil 80W per acre beneath trees in a minimum of 40.0 gallons 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) | grapes | pears |
| apples | lemons (AZ and CA only) | pecans |
| avocados (CA and FL ¹ only) | macadamia nuts | plums ⁴ |
| cherries (tart and sweet ⁴) | olives | walnuts |
| filberts | oranges ² | |
| grapefruit (CA and TX only) | peaches ³ | |

Apply the rate given under the appropriate crop on this label plus the appropriate labeled rate of Gramoxone Inteon in 50.0 to 200 gallons. (30.0 to 50.0 gallons 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 pint per 100 gallons of spray. Apply when weeds are succulent and new growth is 1 to 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 Gamoxone 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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Refer to the labels of both products for further directions, specific weeds controlled, and precautions and limitations on each crop.

- ¹ In avocados in FL, this tank mix also controls balsamapple vine, rattail amaranth, and at the higher rate of each herbicide, it suppresses coral vine.
- ² In oranges in FL, apply 4.4 pounds of this product per acre per application during spring or fall. Do not exceed 8.8 pounds of Simazine 90 Herbicide per calendar year.
- ³ Limited to AR, CA, LA, MO, OK, TX, and states east of the Mississippi River. As specified, refer to the sections **Almonds, Peaches, and Nectarines (CA only) or Peaches, Plums, and Sweet Cherries** for rate of this product and other information.
- ⁴ 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 nonbearing 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)	grapefruit*** (CA, FL and TX)	peaches**** 1
apples*	grapes*	pears*
avocados* (CA and FL only)	lemons* (AZ and CA)	pecans**
cherries (tart and sweet**** 2)	macadamia nuts**	plums**** 2
filberts**	oranges*** (AZ, CA, FL and TX)	walnuts*

Use the specified rate given elsewhere on this label for Simazine 90 Herbicide 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 10.0 to 40.0 gallons 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 Herbicide to the spray tank first, then add the Roundup or Touchdown brand product. 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 Herbicide 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.

- ¹ 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.
- ² Plums and sweet cherries: limited to MO and states east of the Mississippi River, except TN.

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Tank Mixture with Solicam®

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

oranges grapefruit lemons

Apply 4.4 pounds per acre of Simazine 90 Herbicide plus 4.0 to 5.0 pounds of Solicam DF Herbicide (78.6% active ingredient) in 20.0 to 100 gallons of water per acre. Simazine 90 Herbicide + Solicam may be applied in tank mixture with Gramoxone Inteon or Roundup.

Arizona (Lemons and Oranges only): Do not apply a tank mix containing more than 3.2 pounds active ingredient per acre per calendar year. Do not apply more than 1.6 pounds active ingredient per acre per application. Can be applied once during the fall and once during the spring.

Follow the labeled directions and restrictions of use on labels of the herbicides used in mixtures with Simazine 90 Herbicide.

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

Tank Mixture with Surflan®

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

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

Apply the Simazine 90 Herbicide rate given under the appropriate crop on this label plus 2.67 to 5.33 pounds of Surflan 75W or 2.0 to 4.0 quarts of Surflan A.S. in 20.0 to 40.0 gallons of water per acre. Refer to the Surflan 75W or Surflan A.S. label for complete tank mix directions. Observe all precautions and limitations on the Simazine 90 Herbicide and Surflan labels.

FIELD AND FORAGE CROPS

Corn (Field and Sweet)

Apply a maximum of 2.2 pounds per acre (2.0 pounds active ingredient per 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 2.5 pounds per acre per calendar year.

Apply a maximum of 1.77 pounds per acre (1.6 pounds active ingredient per 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: 60 days.
Pre-grazing/pre-harvest interval for sweet corn: 45 days.

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 **Product 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 specified rate as stated above.

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Preplant: Apply in the spring after plowing at the specified rate as stated above. 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.

Winter Annual Broadleaf Control – Preemergence Fall Application

For preemergence control of winter annual weeds, such as common chickweed, henbit, shepherdspurse, tansymustard, wild mustard, annual bluegrass, downy brome, and others, broadcast 1.1 pounds per acre of Simazine 90 Herbicide 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 Herbicide is used in the fall corn weed control program, do not exceed 1.67 pounds of Simazine 90 Herbicide pre-emergence in the spring.

Precautions: (1) Do not apply more than 2.77 pounds per acre 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) Do not apply pre-plant 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. (5) 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. (6) Injury may occur to soybeans planted in north-central and northwest IA, south-central and southwest MN, northeast NE, southeast SD, and other areas the year following application on soils having a calcareous surface layer. (7) 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

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

Refer to the Atrazine 4L label for complete directions, and use 1.1 pound of this product per acre (1.0 pound active ingredient simazine) plus 1.0 quart of Atrazine 4L per acre (1.0 pound active ingredient atrazine). Also refer to the Atrazine 4L label and the **Corn** section of this label for precautions and limitations.

When tank mixing or sequentially applying simazine and/or atrazine or products containing either active ingredient to corn, the total pounds of simazine and/or atrazine applied must not exceed 2.5 pounds active ingredient per acre per calendar year.

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 **Product 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 up to 2.2 pounds of this product following the soil type restrictions specified earlier plus the specified labeled rate of Gramoxone Inteon in 20.0 to 60.0 gallons 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 pint per 100 gallons of spray volume.

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

CHRISTMAS TREE PLANTINGS AND SHELTERBELTS

Remove weed growth before application. Apply 2.2 to 4.4 pounds in at least 25.0 gallons of water per acre after transplanting. Use the same rate for annual maintenance applications.

For quackgrass control, apply 4.4 pounds per acre in the fall or apply a split application of 2.2 pounds per acre in the fall plus 2.2 pounds per acre in early spring, after quackgrass begins growth.

Do not apply more than 4.4 pounds per acre (4.0 pounds active ingredient per acre) per calendar year. Do not apply more than twice 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.

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

arborvitae	Scotch pine	Fraser fir
Austrian pine	white pine	white fir
Bishop pine*	blue spruce	hemlock
knobcone pine*	Norway spruce	juniper
lodgepole pine (shore pine)	red spruce	red cedar
Monterey pine*	white spruce	white cedar
Mugho pine	balsam fir	yew (Taxus spp.)
red pine (Norway pine)	Douglas fir	*For CA only

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 Veitch fir. Broadcast the mixture as a directed spray to the soil surface or as an overtop spray, using 2.2 to 4.4 pounds of Simazine 90 Herbicide and 2.67 to 5.33 pounds of Surflan 75W (or 2.0 to 4.0 quarts 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 tilth and free of clods at time of application. Shallow cultivation (1 to 2 inches) after treatment will not reduce weed control. Observe all precautions and limitations on the Simazine 90 Herbicide and Surflan labels.

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.

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

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STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not store below temperature of 0 °F. If frozen, warm to 45 °F. and redissolve before using by rolling or shaking the container. Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Do not store under conditions which might adversely affect the container or its ability to function properly. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinseate, is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use 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.

CONTAINER HANDLING:

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.

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 AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND 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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TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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X-77 is a trademark of Loveland Products, Inc.

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