

34704-872

08/15/2007

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

AUG 15 2007

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

Subject: EPA Reg. # 34704-872 / Ginmaster Cotton Defoliant Diuron Reregistration

The amended label for EPA Reg. 34704-872 / Ginmaster Cotton Defoliant is acceptable provided the following changes are made to the label:

1. The order of the First Aid sections should be "If In Eyes, If on Skin or Clothing, If Inhaled, and If Swallowed".
2. The Note to Physician should be revised to address skin and eye irritation concerns.
3. Change the Hazards to Humans and Domestic Animals statements to "Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled or absorbed through skin. Avoid contact with eyes, skin, clothing, and avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals."
4. Change the PPE statements to "Some materials that are chemical-resistant to this product are made of barrier laminate or butyl rubber. If you want more options, follow the instructions for category B on an EPA chemical-resistance selection chart. All pilots and flaggers must wear: Long-sleeved shirt and long pants, Shoes and socks. All mixers, loaders, other applicators, and other handlers must wear: Coveralls over short-sleeved shirt and short pants, Socks plus chemical-resistant footwear, Chemical-resistant gloves, Goggles, face shield or glasses, Chemical-resistant apron when mixing, loading or cleaning equipment or spills, and Chemical-resistant headgear for overhead exposure. In addition to the PPE above, all handlers except for ground boom applicators, pilots, and flaggers must also wear a NIOSH approved particulate filtering respirator equipped with N, R, or P class filter media. The respirator should have a NIOSH approval number prefix TC-84A. It is recommended that you require that the respirator wearer be fit tested, and trained in the use, maintenance, and limitations of the respirator." to comply with the Diuron RED.
5. To the User Safety Recommendations add the underlined text "Users should remove clothing/PPE immediately if pesticide gets inside."
6. To the Application Instructions section, add "Apply a maximum of two applications per year. Minimum retreatment interval is 21 days."
7. To the Storage and Disposal section change "Storage" to "Pesticide Storage".

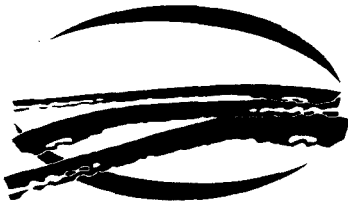
- 8. Delete “Additionally, do not apply... within 100 feet of lettuce.” from the Practices to lower the potential for drift onto non target crops section. Delete “In addition, for citrus crops...downwind of the point of application.” from the Practices to lower drift potential onto non target crops in the Rio Grande Valley of Texas section. To the Practices to lower drift potential onto non target crops in the Rio Grande Valley of Texas section add “Thidiazuron products can not be applied by air within ½ mile of lettuce or 5 miles downwind of the point of application when citrus is in flush (burst of new growth, as in springtime) in the Rio Grande valley of Texas. Ground applications are restricted to 100 feet away from lettuce and ½ mile downwind from the point of application for citrus. (In general, a decrease in droplet size or increase in wind speed at the time of application will result in risk to non-target organisms. Alternatively, if droplet size is coarser or wind speeds are lower, exposures due to drift would be reduced).”.
- 9. Change “per season” to “per year” when specifying application rates.
- 10. To the Application Rate Table under the heading ai/A change 0.075 to 0.05, 0.1 to 0.07, 0.15 to 0.1, and 0.1875 to 0.125.
- 11. To the Conditions of Sale ... section change “The buyer or user” to “To the extent consistent with applicable law, the buyer or user” and “the extent allowed by applicable law” to “to the extent consistent with applicable law”.

If you have any questions please call Erik Kraft at 703-308-9358.

Sincerely,

*Joanne D. Miller*

Joanne Miller  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)



# GINMASTER COTTON DEFOLIANT

## For Agricultural Use Only

<b>ACTIVE INGREDIENTS:</b>	
Thidiazuron: N-phenyl-N'-1,2,3-thiadiazol-5-ylurea*	12%
Diuron: 3-(3,4-dichlorophenyl)-1,1-dimethylurea*	6%
<b>INERT INGREDIENTS:</b>	<b>82%</b>
<b>TOTAL</b>	<b>100%</b>

Contains 1 lb. Thidiazuron per gallon and 0.5 lb. Diuron per gallon.  
\*Protected by U.S. Patent Nos. 4,294,605 and 4,613,354.

## KEEP OUT OF REACH OF CHILDREN DANGER — PELIGRO

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

EPA REG. NO. 34704-872

EPA EST. NO. 34704-MS-1

NET CONTENTS 2½ GALS. (9.46 L)

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EXP 02/07

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### DANGER

Corrosive. Causes irreversible eye damage. Causes burns. Harmful if inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing dust or spray mist. Prolonged or frequently repeated skin-contact may cause allergic reactions in some individuals. Do not allow persons or pets in treated areas until dusts have settled or sprays have dried.

#### Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category "A" on an EPA chemical-resistance selection chart.

**All mixers, loaders, other applicators and other handlers must wear:** Long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves such as polyethylene or polyvinylchloride, protective eyewear and a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N2, R, P, or HE filter and chemical-resistant apron when mixing, loading or cleaning equipment or spills.

**All pilots, flaggers, and groundboom applicators must wear:** Long-sleeved shirt and long pants, shoes plus socks and protective eyewear.

See Engineering Controls for additional requirements.

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

#### Engineering Controls Statement

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

Flaggers supporting aerial applications must use an enclosed cab that meets the definition in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, flaggers must wear long-sleeved shirt, long pants, shoes and socks.

## USER SAFETY RECOMMENDATIONS

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

## FIRST AID

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

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

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

**Note To Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

## ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from the target area.

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to product runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

This chemical has properties and characteristics associated with chemicals detected in ground water. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame  
In case of spillage, cover with an absorbent such as soda ash, lime, clay, or sawdust. Sweep up and bury. Wash area thoroughly with detergent and water.

## DIRECTIONS FOR USE

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

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

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
AUG 15 2007  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

34704-872

# GINMASTER COTTON DEFOLIANT

## EPA REG. NO. 34704-872

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

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 worn over long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate or butyl rubber gloves, chemical-resistant footwear plus socks, and protective eyewear.

### STORAGE AND DISPOSAL

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

**STORAGE:** Store in original container and keep closed. Store in a cool, dry place. Do not use or store near heat or open flame. Do not contaminate food or foodstuffs.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. 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 DISPOSAL:** Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill, or by other procedures approved by State and local authorities.

**DO NOT REUSE EMPTY CONTAINER.**

### GENERAL INFORMATION

This product is a defoliant to be used as a pre-harvest aid for cotton. This product has performed well under both cool and warm weather conditions.

#### Use Precautions

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

Rainfall within 12 hours after application can reduce the effectiveness of this product.

Do not feed foliage from treated cotton plants or gin trash to livestock.

Do not plant the following crops earlier than the specified periods after application of this product:

Small grains, sorghum, corn, or root crops (except carrots, onions) .....	two (2) months
Legumes (including alfalfa) or leafy vegetables (except lettuce) .....	two (2) months
Cole crops, garlic, safflower, tomatoes, and watermelon .....	two (2) months
Carrots .....	three (3) months
Onions .....	four (4) months
Cantaloupe, honeydew melon/casaba melon, muskmelon, or peppers .....	five (5) months
Lettuce .....	two (2) months
with deep-plowing of soil (12-15 inches); or nine (9) months when soil is only disced (4-6 inches)	

**Cover Crops:** Small grains and/or legumes intercropped with the cotton crop to which this product will be applied may only be used as cover crops and may not be harvested for food or feed. Small grains and/or legumes planted earlier than two (2) months following application of this product may only be used as cover crops and may not be harvested for food or feed.

Do not plant any other rotational crops (except those specified above) within one year of application of this product.

Do not use immature crops for food or feed.

Do not allow spray drift to contact trees or crops other than the target crop of mature cotton, or cotton you desire to defoliate, as this product may injure or defoliate other crops.

Particular care should be taken when applying this product adjacent to lettuce, citrus, or cantaloupe.

### PRACTICES TO LOWER THE POTENTIAL FOR DRIFT ONTO NON-TARGET CROPS

- During applications, particularly under windy conditions, this product may drift to non-target crops. To help reduce the drift potential, use the following practices:
- Do not apply this product by ground or air when wind speeds exceed ten (10) miles per hour at the time of application. Follow local recommendations if wind speeds of less than ten (10) miles per hour are specified in those recommendations.

- Use of low nozzle pressure (20-30 psi) is recommended.
- Do not apply this product when a temperature inversion is present or when conditions favor an inversion prior to completing applications(s).
- Additionally, do not apply this product by air within one-half (½) mile of lettuce. Do not apply this product by ground equipment within 100 feet of lettuce.

### PRACTICES TO LOWER DRIFT POTENTIAL ONTO NON-TARGET CROPS IN THE RIO GRANDE VALLEY OF TEXAS

- To help reduce the drift potential, use the following practices:
- Do not apply this product by ground or air when wind speeds exceed ten (10) miles per hour at the time of application. Follow local recommendations if wind speeds of less than ten (10) miles per hour are specified in those recommendations.
- Use of low nozzle pressure (20-30 psi) is recommended.
- Do not apply this product when a temperature inversion is present or when conditions favor an inversion prior to completing applications(s).
- Use the largest nozzle orifice possible, which permits proper deposition and coverage of product.
- In addition, for citrus crops, do not apply this product by air when citrus in flush is within five (5) miles downwind of the point of application. Do not apply this product by ground when citrus in flush is within one-half (1/2) mile downwind of the point of application.

#### Requirements for reducing spray drift for ground and aerial applications:

Use best practices to avoid drift to all other crops and non-target areas. Do not apply when conditions favor drift from the target areas. The interaction of many equipment-and weather-related factors determine the potential for spray drift. Avoiding spray drift at the application site is the responsibility of the applicator. The applicator must follow the most restrictive precautions to avoid drift, including those found in this labeling as well as applicable state and local regulations and ordinances. A drift control agent may reduce drift, however, it may also decrease weed control.

Make aerial or ground applications only when the wind speed is less than or equal to 10 miles per hour.

Do not make aerial or ground applications into temperature inversions.

Apply with medium or coarser spray (according to ASAE standard 572) for standard nozzles.

#### Additional requirements for ground applications:

When applying to crops, apply with nozzle height no more than 2 feet above the ground or crop canopy. When applying to non-crop areas, use lowest nozzle height consistent with safety and efficacy. Direct spray into target vegetation.

#### Additional requirements for aerial applications:

The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Use upwind swath displacement.

When applying to crops, do not release spray at a height greater than 6 to 10 feet above the ground or crop canopy. When applying to non-crop areas, apply at a minimum safe altitude above the area being treated.

Do not apply by air if sensitive non-target crops are within 100 feet of the application site.

#### Time Of Application

Apply this product only to mature cotton plants when the last boll you expect to harvest is mature. A boll can be described as "mature" when it is too hard to be dented when squeezed between thumb and fingers, is difficult to slice with a sharp knife, and/or when seeds cut in cross sections have fully developed cotyledons, as evidenced by an absence of jelly within the seed.

Apply this product at least 5 days prior to anticipated harvest.

**Precaution: The addition of adjuvants can cause desiccation and/or leaf freezing during periods of high temperature. The use of compound that desiccate leaf tissue is not recommended.**

Use of this product under extremely cool or adverse conditions can result in less than desirable defoliation and/or growth inhibition.

#### Application

This product may be applied by air or ground equipment. Apply specified dosages in 10-25 gallons of spray per acre with ground equipment or 2-10 gallons per acre by aircraft.

#### Dosage

Apply this product at a rate of 0.4 to 1.0 pint of formulated product per acre prior to harvest (see Application Rate Table). At some locations, following the initial application of this product, it may be necessary to make a second application of this product (Do not exceed 1.0 pint/acre per season), or an application of a standard defoliant.

#### Mixing Instructions

Fill the spray tank with one-half of the required amount of water. Add the proper amount of this product and start the spray tank agitator. Finish filling the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

**GINMASTER COTTON DEFOLIANT**  
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**PRECONDITIONING  
FOR USE IN CALIFORNIA**

This product may be used as a pre-conditioner to enhance the activity of a defoliant application. Apply this product at 4-6 oz. formulated product per acre. Apply in 10-25 gallons of water per acre by ground or 2-10 gallons of water per acre by aerial application. Timing of application is recommended 7-10 days prior to a defoliation application of this product (see Application Rate Table) or the use of another defoliant. Refer to the second product label prior to use for complete recommendations.

**GINMASTER COTTON DEFOLIANT  
APPLICATION RATE TABLE**

To Achieve an Application Rate of:	Use This Amount of Ginmaster Cotton Defoliant	At the Indicated Rate, One Gallon of Ginmaster Cotton Defoliant Will Treat:
0.075 lbs. ai/Acre	0.4 pts./A (6.4 oz./A)	20 Acres
0.10 lbs. ai/Acre	0.55 pts./A (8.8 oz./A)	15 Acres
0.15 lbs. ai/Acre	0.8 pts./A (12.8 oz./A)	10 Acres
0.1875 lbs. ai/Acre	1.0 pts./A (16.0 oz./A)	8 Acres

**DO NOT APPLY MORE THAN 1.0 PINT OF THIS PRODUCT PER ACRE PER SEASON.**

**Cleanout Instructions**

Do not allow the spray solution to dry in the application equipment. Immediately following application, clean all equipment (mix tanks, pumps, transfer lines, application tanks, sumps, booms, nozzles, and all related equipment) thoroughly with cleaner and water.

Should small quantities of this product remain in inadequately cleaned equipment, they may be released during subsequent applications and may cause damage to crops. Loveland Products, Inc. accepts no liability for damage to crops due to inadequately cleaned equipment.

**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.

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.

TO THE EXTENT ALLOWED BY 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 ALLOWED BY 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.

FORMULATED FOR



P.O. BOX 1286 GREELEY, COLORADO 80632-1286