

34704-1022

03/30/2011

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

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Chris Mason, Ph.D.  
Loveland Products, Inc.  
P.O. Box 1286  
Greeley, CO 80632-1286

MAR 30 2011

Dear Dr. Mason:

Subject: Label Amendment  
WFSI Cotton Defoliant Concentrate  
EPA Registration Number 34704-1022  
Application Dated January 12, 2011

The label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended is acceptable. One copy of the label stamped "Accepted" is enclosed for your records. Please submit one (1) final printed copy of the above mentioned label before releasing the product for shipment. If you have any questions, please contact Tracy White by phone at (703) 308-0042 or via email at [white.tracy@epa.gov](mailto:white.tracy@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Kable Bo Davis", with a large, sweeping flourish at the end.

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

Enclosure – Stamped Label



# FIRST CHOICE<sup>®</sup>

## COTTON DEFOLIANT CONCENTRATE

READ ENTIRE CONTAINER LABEL BEFORE USING THIS PRODUCT

**ACTIVE INGREDIENT:**

Sodium Chlorate

**INERT INGREDIENTS:**

ACCEPTED  
MAR 30 2011  
34704-1022

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

	18.0%
	82.0%
<b>TOTAL</b>	<b>100.0%</b>

Contains 1.84 lbs. active ingredient per gallon.  
CONTAINS UREA AS A FIRE RETARDANT

### KEEP OUT OF REACH OF CHILDREN CAUTION

FOR AGRICULTURAL USE ONLY OR FOR SALE TO, USE AND STORAGE BY SERVICE PERSONS ONLY.  
DO NOT STORE IN AREAS ACCESSIBLE TO CHILDREN.  
SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

#### 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 swallowed:</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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 5 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>

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

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.**

EPA REG. NO. 34704-1022

EPA EST. NO. 051092-AZ-002

NET CONTENTS 30 GALS. (113.56 L)

EXP 08/10 RED

**FIRST CHOICE® COTTON DEFOLIANT CONCENTRATE**  
**EPA REG. NO. 34704-1022**

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

Harmful if absorbed through skin. Avoid contact with skin and clothing.

**PERSONAL OR PROTECTIVE EQUIPMENT**

Some of the 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 category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants,
- Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride,
- 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 or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

See engineering controls for additional requirements.

**Engineering controls**

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

**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), notification to workers 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 12 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,
- Chemical resistant gloves made of any waterproof material,
- Shoes plus socks.

**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**

Do not apply directly to water, or to areas where surface water is present, or to inter-tidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

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**FIRST CHOICE® COTTON DEFOLIANT CONCENTRATE**  
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**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations. Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS.**

**CHEMICAL PROHIBITION**

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

**USE DIRECTIONS**

For all crops, satisfactory defoliation and/or desiccation usually is achieved with one application. However, dense or lodged crops may require an additional application. Do not exceed the maximum listed rate per acre per application for all crops.

**COTTON:** Defoliation-Apply 2 to 3 weeks prior to anticipated picking date. Do not treat later than 7 to 10 days prior to harvest. Thorough coverage of the plant is essential. Nozzles should produce large droplets. A maximum of one application per year is permitted, except in California, where a maximum of two applications per year is permitted. Satisfactory defoliation may not be obtained if cotton is under moisture stress or if plant growth is retarded by cold weather. **Do not** exceed 6 lbs ai per acre per application.

**AIRCRAFT APPLICATION:** Use 1½ to 3 gals. per acre in sufficient water to make 4-10 gals. total solution per acre. Use the lower rate when plants and weather conditions are ideal for defoliation. Do not apply during very high temperatures to avoid rapid evaporation. (Refer to the section "Spray Drift Management")

**GROUND APPLICATION:** Use 1½ to 3 gals. per acre in sufficient water to make 20-30 gals. total solution per acre. 6 to 8 nozzles per row are necessary to obtain good coverage.

**BOTTOM DEFOLIATION:** In tall rank cotton, defoliation of the lower leaves prior to regular defoliation assists in speeding up the maturity of bolls on lower portions of the plants as well as reducing boll rot by permitting more air and sunlight to penetrate into the lower parts of the plant. Spray the lower 1/3 to 1/2 of the plants only, using 4 to 6 quarts in 25 to 30 gallons of water per acre with flat fan nozzles when the bolls are mature. Spraying should be done during periods when drift is at a minimum. Application should be made during early morning or late evening hours to avoid rapid evaporation. Applications should be made 2 to 3 weeks prior to anticipated picking date.

**Restrictions:** Preharvest defoliation and desiccation. Do not graze treated areas or feed gin waste to livestock. Do not apply within 7 days of harvest.

**CHILI PEPPERS:** (Processing only). Use 2 to 5 gals. in 5 to 15 gals. of water by air. Use 20 to 40 gals. of water by ground.

**Restrictions:** Do not apply within 10 days of harvest. Consult your processor prior to application.

**GRAIN SORGHUM:** As a harvest aid to reduce excess moisture on grain sorghum use 2 to 2.7 gals. per acre in 5 to 10 gals. of water by air application. Use 20 to 40 gallons of water by ground application. Do not use plant materials as food for meat animals within 14 days after harvest.

**Restrictions:** Do not apply within 10 days of harvest.

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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 can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

**Wind Speed**

Do not apply at wind speeds greater than 15 mph.

**Droplet Size**

Apply as a medium or coarser spray (ASAE Standard 572).

**Temperature Inversions**

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

**Other State and Local Requirements**

Applicators must follow all state and local pesticide drift requirements regarding application of sodium chlorate. Where states have more stringent regulations, they must be observed.

**Equipment**

All application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

**Additional requirements for aerial applications**

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety.

Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a crosswind, the swath must be displaced downwind.

The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

**Additional requirement for groundboom application**

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep in original container. Do not reuse empty container. Store in cool, dry place. Protect from excessive heat. Avoid storage near feed and food products. Do not store next to strong acids or emulsifiable concentrates of Parathion or Malathion.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

**CONTAINER DISPOSAL: Nonrefillable container.** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at [www.acrecycle.org](http://www.acrecycle.org). If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**For packages up to 5 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and

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**Storage & Disposal cont'd.:**

continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 56 gallons:** To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**For refillable containers:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**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.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW,

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**FIRST CHOICE® COTTON DEFOLIANT CONCENTRATE**  
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BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. Box 1286, GREELEY, CO 80632-1286.

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.

First Choice is a registered trademark of Crop Production Services.

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