

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PESTICIDE:

 Registration

EPA Reg. Number: 34704-867

Term of Issuance: Conditional

Name of Pesticide Product: DFT 6 EC Cotton Defoliant

DEC 20 2004

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Within 18 months of the date of this registration, submit one-year storage stability and corrosion characteristics studies for review and acceptance.
3. Add on the front panel, "EPA Reg. No. 34704-867" and "EPA Est. No. 34704-XX-XX."
4. The correct registration number for Def 6 (Tribbufos) is 264-730. Submit a Formulator's Exemption Statement (Form 8570-27) with correct registration number.

Make the following label changes listed below before you release the product for shipment:

5. Under "Personal Protective Equipment";
 - Add "such as chemical goggles, or face shield" after "protective eyewear."
 - Replace "For exposure in enclosed areas, a respirator . . . prefilter" with the following:
"For exposure in enclosed areas, a NIOSH approved half-mask or a full facepiece respirator equipped with a combination of organic vapor/HE or P-100 particulate filter cartridges with NIOSH approval number prefix TC-23C, or a NIOSH approved gas mask equipped with a combination of organic vapor/HE or P-100 particulate filter canister with NIOSH approval number prefix TC-14G."
 - Replace the last statement with "For exposure outdoors, a NIOSH approved respirator equipped with R, P, or HE-series particulate filters with NIOSH approval number prefix TC-84A."

It is recommended that you require that applicators and handlers be trained in the fitting, inspection, use, and maintenance of personal protective equipment.

6. Under "Engineering Controls Statements";

Add the following statements:

- Mixers and loaders supporting aerial applications must use a mechanical transfer system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)] for providing dermal protection. The system must be capable of removing the pesticide from the shipping container and transferring it into mixing tanks and/or application equipment. At any disconnect point, the system must be equipped with a dry disconnect or dry couple shut-off device that is warranted by the manufacturer to minimize drippage to not more than 2 ml. per disconnect point. In addition to wearing the specified PPE, all handlers of this product must wear chemical resistant gloves and a chemical resistant apron.
- Persons using a closed system that operates under pressure shall wear protective eyewear.
- 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)].

7. Under "User Safety Recommendations";

Add the following statements:

"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."

8. Under "First Aid - If swallowed";

Replace "Have a person sip a glass of water if able to swallow" with "Do not give any liquid to person."

9. Under "Note to Physician";

Add "This product is corrosive to eyes or skin."

10. Under "Environmental Hazards"

- Replace "This pesticide is toxic to fish" with "This pesticide is toxic to fish and

- invertebrates.”
- Add “Do not contaminate water when disposing of equipment washwater or rinsate.”

11. Under “General Use Restrictions”;

- Add “Do not apply when weather conditions favor drift from the treated area.”
- Add “Cotton treated with this product must be mechanically harvested. Hand harvesting is prohibited.”

12. Under “Ground Application”;

Add the following spray drift management statements:

- Do not allow sprays to drift from the application site and contact people, structures people occupy at any time and nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.
- For ground rig applications, apply product no more than 4 feet above the ground or the crop canopy and only when wind speed is 10 mph or less at the application site as measured by an anemometer.

13. Under “Aerial Application”;

Add the following spray drift management statements:

Avoiding spray drift at the application site is the responsibility of the applicator. The interactions of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.
Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

The following aerial spray drift management requirements are advisory in nature and does not supersede mandatory label requirements:

INFORMATION ON DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

CONTROLLING DROPLET SIZE

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
 - Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
 - Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.
 - Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT

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

579

SWATH ADJUSTMENT

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

WIND

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitudes and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened

or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

14. It is recommended that you implement provisions of the EPA Pesticide Registration (PR) Notice 2001-5, Notice to Manufacturers, Formulators, Producers and Registrants of Pesticide Products.

15. Under "Warranty Disclaimer and Notice";

The Agency has not reviewed or accepted these statements. It may need to be changed at a later date.

Submit one (1) copy of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

CONCURRENCES

SYMBOL ▶	7505C	7505C						
SURNAME ▶	Bien	Tompkins						
DATE ▶	12-16-04	<i>RP/IM</i>						

789

ACCEPTED
with COMMENTS
EPA Letter Dated
12/30/04
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
amended, for the pesticide
registered under EPA Reg. No.
34904-867

DFT 6 EC

Cotton Defoliant

DEC 20 2004

VERY LOW ODOR - FOR FAST AND EFFECTIVE COTTON DEFOLIATION

ACTIVE INGREDIENT:
S,S,S-Tributyl phosphorotrithioate 70.5%
INERT INGREDIENTS: 29.5%
TOTAL 100.0%

Contains 6 pounds S,S,S-Tributyl phosphorotrithioate per U.S. gallon.
Contains Petroleum Distillates

STOP — Read the label before use.

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 the label, find someone to explain it to you in detail.)

EPA REG. NO. 34704-

EPA EST. NO. _____

NET CONTENTS _____ GALS. (____ L)

IHT 09/04

PRECAUTIONARY STATEMENTS

DANGER

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive: Causes burns to the skin and irreversible eye damage. May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Do not get in eyes, on skin or on clothing. Avoid breathing vapor or spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear: Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton, chemical resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure and chemical-resistant apron when cleaning equipment, mixing or loading.

For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

For exposure outdoors, dust/mist filtering respirator (MSHA/NIOSH) approval number prefix TC-21C), or a NIOSH approved respirator with any R, P or HE filter.

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement

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

USER SAFETY RECOMMENDATIONS

Users should:
Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID Organophosphate

If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Have person sip a glass of water if able to swallow. • 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.

NOTE TO PHYSICIAN: This product inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system and the somatic motor nerves. Poisoning with this product also results in cardiovascular and respiratory symptoms which must be treated as separate pathological entities apart from the cholinergic effects.

Administer atropine sulfate to reverse cholinergic symptoms; and maintain a systematic, symptomatic treatment of the cardio-vascular and respiratory effects, even though the cholinergic symptoms have ceased. Do not give central nervous system depressants. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. The use of oxygen is recommended in case of respiratory distress. Gastric lavage is not recommended because of the corrosive nature of this product and the petroleum distillates used in the formulation.

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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

DIRECTIONS FOR USE

Read entire label before using this product.

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.

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 intervals. 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 7 days. 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,

DFT 6 EC EPA REG. NO. 34704-

Agricultural Use Requirements cont'd:

Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or vinyl, chemical-resistant footwear plus socks, protective eyewear, and chemical-resistant headgear for overhead exposure.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place, away from open flame and extreme heat, and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking invert to prevent leakage.

If the container is leaking or material is spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type materials and dispose of as directed below. In spill or leak incidents, keep unauthorized people away. For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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: Non-refillable Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by any procedures approved by state and local authorities.

Non-refillable Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or 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.

Returnable Refillable Sealed Container: Do not reuse container. Do not break seals. Replace the dust cover cap and return container intact to point of purchase.

GENERAL INFORMATION

DEF 6 is a cotton defoliant, which may be used for the removal of leaves from cotton plants prior to the anticipated harvest of the crop. DEF 6 contains six (6) pounds of active ingredient per gallon. It is non-corrosive and non-clogging to spray equipment and does not constitute a fire hazard.

DEF 6 must be applied in sufficient amounts of spray carrier to provide thorough coverage of leaves. DEF 6 treated leaves do not appear affected until defoliation actually begins and the leaves drop in a green condition. Under favorable conditions, defoliation of cotton normally occurs within four to seven days following application. Adverse conditions such as low temperature (especially temperatures below 60° F at night), low humidity or plant stress may extend the defoliation time to nine to fourteen days. Under those adverse conditions, use the higher recommended DEF 6 rate and/or use diesel oil rather than water as the spray carrier.

Heavy rainfall during or immediately following a DEF 6 application may result in reduced performance. Application is not recommended when a heavy rainfall is expected within one hour after treatment. Dew on the plant leaves at time of application should not affect performance.

DEF 6 does not suppress second growth (regrowth), especially where rainfall follows defoliation. A second application of DEF 6 or a tank mixture of DEF 6 with recommended labeled cotton harvest aid products will be effective for defoliation of the second growth if excessive second growth has occurred.

DEF 6 may be used alone for bottom defoliation or for general plant defoliation. DEF 6 may also be applied in tank mixtures with recommended registered products for enhanced cotton harvest aid activity.

GENERAL USE RESTRICTIONS

Do not apply more than 1½ pints (1.125 lbs a/A) of DEF 6 per acre per crop season in all States except California and Arizona.

Do not apply more than 2½ pints (1.875 lbs a/A) per acre per crop season in California and Arizona only.

DEF 6 is suitable for use in all power-operated ground and aircraft sprayers. Do not apply DEF 6 through any type of irrigation equipment.

Do not use DEF 6 on any other crop except cotton. Avoid spray drift to susceptible plants, as this product may injure or defoliate other crops.

Do not graze treated fields.

DEF 6 may not be applied within seven (7) days of harvest.

Observe all labeling cautions and limitations of all products used in tank mixtures.

MIXING INSTRUCTIONS

Compatibility of DEF 6 or its labeled tank mix products should always be predetermined prior to mixing. Refer to the COMPATIBILITY SECTION of its label for further details.

DEF 6 Alone: Fill the spray tank ¼ to ¾ full of clean water. Initiate the recirculation and agitation system and add the recommended amount of DEF 6. Continue sufficient agi-

tion from the time of mixing through application to ensure a uniform spray mixture. Follow the same mixing instructions when diesel oil is substituted for water.

DEF 6 Tank Mixtures: Fill the spray tank ¼ to ¾ full of clean water and begin the sprayer recirculation and agitation system. If tank mixing with wettable powders of other dry products, make a slurry of these products with water and add slurry slowly to the spray tank. Next add the recommended amount of DEF 6. If mixing spray adjuvants in the mixture, add them after all other products have been mixed. Fill the spray tank to the desired level with water and continue agitation during transport and application until the spray tank is empty. Follow the same mixing instructions when diesel oil is substituted for water.

Addition of Adjuvants: To improve spray coverage, DEF 6 may be applied with the following types of adjuvants: 1) commercial blends of vegetable or petroleum-based oils, 2) non-ionic surfactant and 3) diesel oil (if allowed by local regulations). Adding or using diesel oil (3 to 5 gallons by air or a minimum of 5 gallons by ground) may be helpful when night temperatures drop below 60°F, plants are under moisture stress, or on storm-proof cotton varieties. Use only those adjuvants, which are exempt from tolerance requirements under 40 CFR 180.1001.

Compatibility: To determine the compatibility of DEF 6 with other products, do the following: 1) pour the recommended proportions of the products into a suitable container of water, 2) mix thoroughly and 3) allow to stand at least five minutes. If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. For further information contact your local Loveland Products representative.

SPRAY EQUIPMENT CLEANING AND DECONTAMINATION

Immediately after applying DEF 6 alone or in tank mixtures, remove all unused spray mixture and follow directions on this label for disposal. Do not allow the pesticide mixtures to dry in the spray equipment. Dried pesticide residues may become resuspended and damage other crops if uncleaned spray equipment is used to apply other products during the same or the following year.

Thoroughly clean the spray tank, lines, nozzles and exterior surfaces of equipment immediately before and after applying DEF 6 alone or tank mixtures and before using the spray equipment the following year. Use a cleaner such as Tank and Equipment Cleaner or All Clear®. Remove dried deposits from the exterior surfaces, especially aircraft fabric. This cleaning is particularly important if the spray equipment has been used to apply Dropp 50WP or products containing chlorates. Follow directions on this label for disposal of wash and rinse water.

APPLICATION PROCEDURES

DEF 6 alone may be applied with all suitable power operated ground and aircraft sprayer. If applying DEF 6 in tank mixture, refer to the application procedures of the tank mix partner and following the most restrictive label. Do not apply DEF 6 through any type of irrigation system.

Ground Application: Use spray equipment that provides a uniform and accurate application. A minimum spray volume of 10 gallons per acre is recommended when DEF 6 is applied with water and a minimum of 5 gallons per acre is recommended when DEF 6 is applied in diesel oil.

Aerial Application: Use aerial equipment calibrated to provide accurate and uniform spray coverage and application rates and to minimize the potential for spray drift. Do not apply when wind may cause drift.

A minimum spray volume of 5 gallons per acre should be used when DEF 6 and tank mixtures with DEF 6 are applied with water. DEF 6 alone may be applied in a minimum of 3 gallons of spray volume per acre when using diesel oil (minimum of 5 gallons per acre in California).

Aerial applicators must be in enclosed cockpits.

USE RATES

Use the specified use rate of DEF 6 in water or once refined vegetable oil or diesel oil. Apply sufficient spray to ensure uniform leaf wetting. All leaves must be treated for complete defoliation. DEF 6 does not suppress secondary growth.

RATE RECOMMENDATIONS

CROP	DEF 6 RATE Pints/acre	MINIMUM WATER SPRAY VOLUME ^a Gallons per Acre	
		AIR	GROUND
Cotton CA&AZ All Other States	1 1/3 to 2 1 1/3 to 1 1/2	5	10
GENERAL PLANT DEFOLIATION ^a Apply specified dosage per acre to give thorough coverage of leaves when at least 50% of bolls are open, or according to local recommendations for Node Above Cracked Boll (NACB). For LV/LV application, use not less than 1 1/2 pints per acre of once refined vegetable oil. For rank cotton, see below.			
All States	1 to 1 1/2	—	10
BOTTOM DEFOLIATION ^b Apply specified dosage (the rate should be proportional to the fraction of the plant being defoliated) per acre with spray directed only to the lower part of the plant where mature bolls are found.			

DFT 6 EC
EPA REG. NO. 34704-

RATE RECOMMENDATIONS

CROP	DEF 6 RATE Pints/acre	MINIMUM WATER SPRAY VOLUME* Gallons per Acre	
		AIR	GROUND
Rank Cotton CA & AZ All Other States	2½ 1½	5	15
		RANK COTTON DEFOLIATION Apply specified dosage per acre to give thorough coverage of leaves when at least 50% of bolls are open, or according to the local recommendation for Nucle Above Cracked Boll (NACB). The total rate may be applied in one or two applications (2 to 6 weeks apart) either alone or in an approved tank mix. To achieve more complete general plant defoliation, especially when using the 1½ pints, use with an approved tank mixture is highly recommended. For LV/ULV applications, a maximum of 2½ (CA,AZ) or 1½ (all other states) pints per acre of DEF 6 per use season may be applied in not less than 1½ pints per acre of once refined vegetable oil.	
Long Staple Cotton (including Pima) CA & AZ All Other States	2 to 2½ 1½	5	15
		LONG STAPLE (INCLUDING PIMA) COTTON DEFOLIATION Apply specified dosage to mature cotton plants with 50% or more open bolls. For best results on pima cotton, use in tank mix combination with 0.2 to 0.4 lb Dropp 50 WP per acre when 60% or more bolls are open.	

- ^a General Plant Defoliation: Apply to mature cotton plants when (50% or more of the bolls are open and 7 to 10 days prior to anticipated picking. Plants are considered mature if the youngest bolls 1) cannot be bent by pressure between the thumb and forefinger or 2) cannot be cut through easily with a sharp knife.
- ^b Bottom Defoliation: Losses from rot and weathering may be reduced by using DEF 6 to increase air movement and sunlight to bottom bolls. Use shielded drop nozzles to direct sprays to the lower leaves. By removing the picker's top 8 to 12 rows of spindles, the exposed bolls may be harvested. The picker will not injure the untreated top leaves and immature bolls. DEF 6 may be applied for entire plant defoliation when top bolls are mature.
- * If using diesel oil as the spray carrier, refer to the application procedures section for minimum spray volume information.

TANK MIX PARTNERS

DEF 6 may be applied in tank mixture with additional registered cotton harvest aid products to enhance cotton desiccation, defoliation and/or regrowth control. They may be applied with similar timings and methods as DEF 6 alone unless specifically prohibited in the mix partner product label. In some cases, cotton harvest aid performance may be affected by the temperature sensitivity of the tank-mix partner. Refer to the individual product labels for additional information on use rates, precautions and/or restrictions. The following products are recommended for tank mixtures with DEF 6:

Accelerate	Ethophon 6	Prep PC
Boll'd	Finish	Quik Pic
Cotton Aide	Ginstar	Roundup
CottonQuik	GK Prep	Roundup Ultra
Cyclone	Harvade	Starfire
Dropp Prep	SuperBoll	

TANK MIX PARTNERS

REMARKS

Dropp
Use 1 to 1½ pints of DEF 6 plus 0.066 to 0.1 lb of Dropp 50 WP for defoliation and inhibition of secondary growth (regrowth). Tank mix activity is maximum when 60% of more bolls are open and the mean 24-hour temperature before and after application is above 60° F. Adverse conditions may require 1) use of the maximum dosage, 2) a second application or 3) longer time for complete defoliation. Mix DEF 6 and Dropp 50 WP combinations in the following order: 1) water, 2) Dropp 50 WP (as per label), 3) after Dropp 50 WP has completely dispersed add DEF 6 and 4) adjuvant (if used). Do not apply this combination to immature cotton (<60% open boll) or at higher than recommended use rates as desiccation and leaf freezing may occur. When used in citrus growing areas, observe buffer zones restrictions. Refer to the Dropp 50 WP label for additional precautions, restrictions or comments.

TANK MIX PARTNERS

REMARKS

Accelerate	Tank mix with DEF 6 at 1 to 1½ pints per acre for enhanced speed of defoliation and cotton boll opening. Refer to the tank mix partners label for the use rates, precautions, restrictions and additional comments.
Boll'd	
Cotton Aide	
CottonQuik	
Ethophon 6	
Finish	
GK Prep	
Prep PC	
Prep	
SuperBoll	
Cyclone	Tank mix with DEF 6 at 1 to 1½ pints per acre for enhanced desiccation of cotton and certain weed species. Refer to the tank mix precautions, partners label for use rates, restrictions and additional comments.
Ginstar	
Harvade	
Quik Pic	
Starfire	
Roundup	In states where permitted, tank mix with DEF 6 at 1 to 1½ pints per acre for enhanced defoliation, regrowth control and additional late season weed control. Refer to the tank mix partners label for use rates, precautions, restrictions and additional comments.
Roundup Ultra	

WARRANTY DISCLAIMER AND NOTICE

THE DIRECTIONS FOR USE OF THIS PRODUCT ARE BELIEVED TO BE ADEQUATE AND SHOULD BE FOLLOWED CAREFULLY. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT DUE TO SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OR ABSENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF LOVELAND PRODUCTS, INC., THE MANUFACTURER OR SELLER.

THE PRODUCTS SOLD TO YOU ARE FURNISHED "AS IS" BY LOVELAND PRODUCTS, INC., THE MANUFACTURER OR SELLER, AND ARE SUBJECT ONLY TO THE MANUFACTURER'S WARRANTIES, IF ANY, WHICH APPEAR ON THE LABELS TO THE PRODUCTS SOLD TO YOU. EXCEPT AS EXPRESSLY PROVIDED HEREIN, LOVELAND PRODUCTS, INC., THE MANUFACTURER OR SELLER MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD OR USE OF THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. EXCEPT AS EXPRESSLY STATED HEREIN, LOVELAND PRODUCTS, INC., THE MANUFACTURER OR SELLER MAKES NO WARRANTY OF RESULTS TO BE OBTAINED BY USE OF THE PRODUCT. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND LOVELAND PRODUCTS, INC.'S, THE MANUFACTURER'S OR SELLER'S TOTAL LIABILITY, SHALL BE LIMITED TO DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT. NO AGENT OR EMPLOYEE OF LOVELAND PRODUCTS INC. OR SELLER IS AUTHORIZED TO AMEND THE TERMS OF THIS WARRANTY DISCLAIMER OR THE PRODUCT'S LABEL OR TO MAKE A REPRESENTATION OR RECOMMENDATION DIFFERENT FROM OR INCONSISTENT WITH THE LABEL OF THIS PRODUCT.

IN NO EVENT SHALL LOVELAND PRODUCTS, INC., THE MANUFACTURER OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES AND THE BUYER AND USER WAIVE ANY RIGHT THEY MAY HAVE TO SUCH DAMAGES.

Harvade® is a trademark of Uniroyal Chemical Corporation. Roundup® Roundup Ultra® are trademarks of Monsanto Company. Prep® and Finish® are trademarks of Rhono-Poulenc Ag Company. Cyclone® and Starfire® are trademarks of Zeneca Inc. Ag Products. Cotton Aide® is a trademark of Monterey Chemical Company. Accelerate® is a trademark of Elf Atochem North America, Inc. Quik Pic® is a trademark of United Agri Products. CottonQuik® and Super Boll® are trademarks of Griffin. Dropp® and Ginstar® are trademarks of Agrevo USA Company. Ethophon 6® is a trademark of Micro Flo Company. Boll'd® is a trademark of Riverside Terra. GK Prep® is a trademark of Gold Key Inc. Prep PC® is a trademark of Tri-State.

FORMULATED FOR



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