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3125 282

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282-8091.YLD

U. S. LABEL

Base Pre-Reg. (8091)

Reason to Issue: To propose container disposal statement for returnable refillable sealed containers.

Date of Draft: 01/18/94(Pre-Reg)(T)

# DEF 6

## Emulsifiable Defoliant

### Very Low Odor

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#### FOR FAST AND EFFECTIVE COTTON DEFOLIATION

**ACTIVE INGREDIENT:**

S,S,S-Tributylphosphorotrithioate .....	70.5%
<b>INERT INGREDIENTS:</b> .....	<u>29.5%</u>
	100%

Contains Petroleum Distillates

Contains 6 lbs tribufos: S,S,S-Tributylphosphorotrithioate per U.S. gallon.

EPA Reg. No. 3125-282

Net Contents: 2.5 Gallons

EPA Est. 3125-MO-1

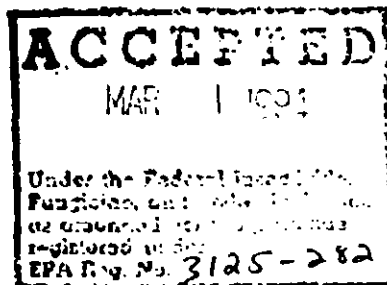
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#### AMENDMENT

TO PREVIOUSLY REGISTERED STORAGE AND DISPOSAL LABELING

SHADED TEXT HAS NOT PREVIOUSLY BEEN REGISTERED

**MILES** 



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DEF 6

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### DANGER

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

**Applicators and other handlers must wear:**

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
- Water-proof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- 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)

- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

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 statements:** 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:

User 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.

## STATEMENTS OF PRACTICAL TREATMENT

### Organophosphate

**If in eyes:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. **If on skin:** Wash with plenty of soap and water. Get medical attention. **If swallowed:** Call a physician or poison control center. Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. **If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**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.

Use atropine sulfate to reverse cholinergic symptoms; maintain a systematic, symptomatic treatment of the cardiovascular 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.

## ENVIRONMENTAL HAZARDS

This product is toxic to fish. 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 apply where runoff is likely to occur.

Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

## 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.

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using DEF 6 emulsifiable defoliant.

**CONDITIONS OF SALE:** THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT DEFOLIATION AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

### 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). 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 over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

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

**DEFOLIATION:** Under normal conditions, DEF 6 gives effective defoliation of cotton within four to seven days. Leaves do not appear affected until defoliation actually begins. Leaves drop in a green condition. Use the higher DEF 6 rate under conditions of low temperature, low humidity, or plant stress. When continued low temperatures prevail at night (below 60° F), complete defoliation may require nine to fourteen days. Schedule all applications in accordance with local recommendations.

**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 (5) minutes. If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. For further information contact your local Miles representative.

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**EQUIPMENT:** DEF 6 is suitable for use in all power-operated ground and aircraft sprayers. It is non-corrosive, non-clogging to spray equipment and does not constitute a fire hazard.

**ADDITION OF ADJUVANTS:** To improve spray coverage, DEF 6 may be applied with the following adjuvants: (1) commercial blends of vegetable or petroleum-based oils, (2) non-ionic surfactant and (3) diesel oil (if allowed by local regulations). Diesel oil (3 - 5 gallons by air or 5 - 10 gallons by ground) may be helpful when night temperatures drop below 60° F, plants are under moisture stress or on storm-proof cotton varieties.

Only adjuvants which are exempt from tolerance requirements under 40 CFR 180.1001 may be used. Test the compatibility of DEF 6 or DEF 6 plus Dropp 50WP with the selected adjuvant prior to mixing in the spray tank (See Compatibility Section).

**DOSAGE:** Use the specified dosage of DEF 6 in water or once refined vegetable oil (See Recommended Applications Table) or diesel (See ADDITION OF ADJUVANTS). Apply sufficient spray to ensure uniform leaf wetting. All leaves must be treated for complete defoliation. DEF 6 does not suppress secondary growth.

**RAINFALL:** Heavy rain during or immediately following any DEF 6 application may reduce performance. However, dew should not affect performance.

**COMPLETE DEFOLIATION:** Apply DEF 6 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 dented by pressure between thumb and forefinger or (2) cannot be cut through easily with a sharp knife.

**BOTTOM DEFOLIATION:** Seed cotton may be lost due to rot and exposure of the bottom bolls. An application of DEF 6 using shielded drop nozzles (four 8001 fans or two 1/8 K 1 or 1.5 flooding) to the lower leaves, will expose the mature bolls to air movement and sunlight. By removing the picker's top 8 to 12 rows of spindles, the exposed bolls may be harvested. The plant is left green and flexible so the picker will not injure the untreated top leaves and immature bolls. DEF 6 may be applied for complete defoliation when top bolls are mature.

**DEFOLIATION AND INHIBITION OF REGROWTH:** Use 1 to 2 pints of DEF 6 plus 0.066 to 0.1 lb of Dropp 50WP for defoliation and inhibition of secondary growth. Tank mix activity is maximum when 60% or more bolls are open and the mean 24-hour temperature before and after application is above 60° F. The lower rate of each product may be used when conditions are favorable, for example, high temperatures and high humidity. Adverse conditions may require: (1) the maximum dosage, (2) a second application or (3) longer time for complete defoliation.

Do not apply DEF 6 plus Dropp 50WP to immature cotton (less than 60% bolls open) or higher than recommended product dosages, as desiccation and leaf freezing may occur.

Mix DEF 6 and Dropp 50WP combinations in the following order: (1) water, (2) Dropp 50WP (follow directions on Dropp 50WP label), (3) adjuvant, if used and (4) after Dropp 50WP has completely dispersed add DEF 6.

To enhance boll opening, DEF 6 may be tank mixed at labeled rates with Prep™ according to the directions for use on the Prep label.

For additional desiccation of certain weed species, DEF 6 may be tank mixed at labeled rates with Harvade® according to the directions for use on the Harvade label.

In states permitted by the Roundup® label, the full labeled rate of DEF 6 (1.33 - 2 pints/A) can be tank-mixed with Roundup to obtain defoliation, regrowth inhibition and to provide additional weed control to better facilitate harvesting. Refer to the Roundup label for use directions, regrowth inhibition statement, and weeds controlled.

**SPRAY EQUIPMENT CLEANING AND DECONTAMINATION:** Immediately after applying DEF 6, remove all unused spray mixture and follow directions on this label for disposal. Do not allow pesticide mixtures to dry in 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.

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Thoroughly clean spray tank, lines, nozzles and exterior surfaces of equipment immediately before and after applying DEF 6 and before using spray equipment the following year. Use a cleaner such as "Spic and Span," "Fantastic," or "Formula 409." Remove dried deposits

from 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.

RECOMMENDED APPLICATIONS				
CROP	PINTS DEF 6 PER A	GALLONS WATER PER A		DIRECTIONS
		AIR	GROUND	
Cotton	1-1/3 to 2	5 to 10	15 to 25	<b>COMPLETE DEFOLIATION</b> Apply specified dosage per acre to give thorough coverage of leaves when 50% or more of the bolls are open. For LV/ULV application use not less than 1-1/2 pints per acre of once refined vegetable oil. For rank cotton, see below.
	1 to 1-1/2	-	10 to 15	<b>BOTTOM DEFOLIATION</b> Apply specified dosage (the rate should be proportional to the fraction of the plant to be defoliated) per acre with spray directed only to the lower part of the plant where mature bolls are found.
Rank Cotton	2-1/2	5 to 10	15 to 25	<b>RANK COTTON DEFOLIATION</b> Apply specified dosage per acre to give through coverage of leaves when 50% or more bolls are open. Total rate may be applied in one or two applications (2 to 6 weeks apart) either alone or in an approved tank mix. For LV/ULV applications, a maximum of 2 pints per acre of DEF 6 per use season may be applied in not less than 1-1/2 pints per acre of once-refined vegetable oil. Do not apply more than 2-1/2 pints of DEF 6 per acre in any crop season.
Long Staple (Including Pima) Cotton	2 to 2-1/2	5 to 10	15 to 25	<b>LONG STAPLE (INCLUDING PIMA) COTTON DEFOLIATION</b> Apply specified dosage to mature cotton plants with 50% or more open bolls. For best results on pima cotton, use a tank mix combination with 0.2 to 0.4 lb Dropp 50 WP per acre when 60% or more of the bolls are open.

### RESTRICTIONS

Do not apply more than 2-1/2 pints of DEF 6 per acre in any crop season.

Observe all labeling cautions and limitations of all products used in mixtures. Specifically, when Dropp 50WP is tank mixed with DEF 6 in citrus growing areas, observe buffer zones and other restrictions on the Dropp 50WP label and/or in the Dropp 50WP manufacturer's recommendations.

Do not use DEF 6 on other crops used for food or forage. Avoid spray drift to susceptible plants, as this product can injure or defoliate other crops. (Coarse sprays are less likely to drift.)

Do not graze treated fields.

DEF 6 may be applied up to first frost but not within seven (7) days of picking.

Following DEF application, do not hand harvest or perform any other activities which may involve human contact with foliage until defoliation occurs, which is usually four to seven days under normal conditions. ~~If entry is required to perform activities other than hand harvesting, before defoliation occurs, wear protective coveralls over short pants and a short sleeved shirt for a long sleeved shirt and long trousers and chemical resistant gloves.~~

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## STORAGE AND DISPOSAL

**Pesticide Disposal:** Do not contaminate water, food or feed by storage or 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:**

**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.

**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.

**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 above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

Dropp is a trademark of Schering.  
Harvade is a Reg. TM of Uniroyal Chemical Company.  
Prep is a TM of Rhone-Poulenc AG Company.  
Roundup is a Reg. TM of Monsanto Company.

Miles Inc.  
Crop Protection Products  
Box 4913, Kansas City, MO 64120-0013

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Reason to Issue: To revise in accordance with Worker Protection Standard; revise signal word from Warning to Danger, and revise hazards to humans and domestic animals.

Date of Draft: 01/20/94(Pre-Reg)(T)  
Supersedes Draft Dated: 02/12/93

# DEF 6

Emulsifiable Defoliant  
Very Low Odor

## FOR FAST AND EFFECTIVE COTTON DEFOLIATION

**ACTIVE INGREDIENT:**

S,S,S-Tributyl phosphorotrithioate .....	70.5%
INERT INGREDIENTS: .....	<u>29.5%</u>
	100.0%

Contains Petroleum Distillates.

Contains 6 lbs tribufos: S,S,S-Tributyl phosphorotrithioate per U.S. gallon.

EPA Reg. No. 3125-282

EPA Est. 3125-MO-1

Net Contents: 2.5 Gallons

**STOP - Read the label before use.**

**Keep Out Of Reach of Children**

**DANGER**

**PELIGRO**

See rear panel for statements of practical treatment and other precautions.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

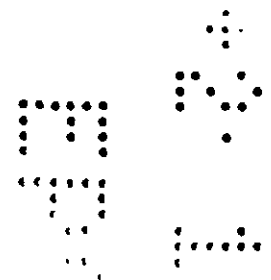
(If you do not understand the label, find someone to explain it to you in detail.)

**MILES** 

**ACCEPTED**

MAR 28 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the product registered under EPA Reg. No. 3125-282



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DEF 6

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## STORAGE AND DISPOSAL

**Pesticide Disposal:** Do not contaminate water, food or feed by storage or 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 rinse container. Do not break seals. Replace the dust cover cap and return container intact to point of purchase.

**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 above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone Number is 816-242-2582, or contact Chemtrec at 800-424-9300.

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