

282-6962.YLD

Base Pre-Reg. (6962)

U.S. LABEL

Reason to Issue: To make general label revisions, add directions for LV/ULV applications and compatibility test, specify maximum amount of product per season, and add use on Pima cotton.  
3/29/90 Draft: Revise per internal comments.

Date of Draft: 3/29/90 (Pre-Reg) (T)  
Supersedes Pre-Reg. Draft Dated: 2/19/90

EPA Reg. No. 3125-282

DEF 6

EMULSIFIABLE DEFOLIANT

Very Low Odor

FOR FAST AND EFFECTIVE COTTON DEFOLIATION

Contains 6 pounds of tribufos: S,S,S-Tributylphosphorotri-thioate per U.S. gallon.

ACTIVE INGREDIENT:  
S,S,S-Tributyl phosphorotri-thioate ..... 70.5%

INERT INGREDIENTS: ..... 29.5%  
100.0%

NET CONTENTS            GALLONS

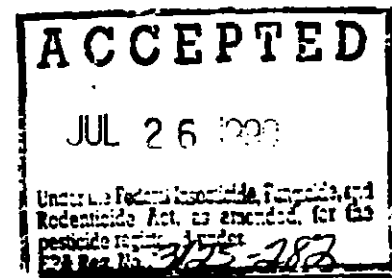
KEEP OUT OF REACH OF CHILDREN  
WARNING

(See rear panel for statements of practical treatment and other precautions)

EPA Reg. No. 3125-282

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME

AVISO  
PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.  
(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)



STOP - READ THE LABEL BEFORE USE

MOBAY CORPORATION  
A Bayer USA INC. COMPANY  
AGRICULTURAL CHEMICALS DIVISION  
Box 4913, Kansas City, Missouri 64120

Note: Underlined letters in chemical nomenclature should be italicized when printed, not underlined.

DEF 6 Emulsifiable Defoliant

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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.

**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. MOBAY 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 MOBAY AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

**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 Mobay representative.

**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.

**CONDITION OF ADJUVANTS:** To improve spray coverage, DEF 6 or DEF 6 plus Dropp® 50WP may be applied with the following adjuvants: (1) commercial blends of vegetable or petroleum-based oils, (2) non-ionic surfactants and (3) diesel oil (if allowed by local regulations). Diesel oil 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).

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

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DIRECTIONS FOR USE (Continued)

**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 the specified dosage of DEF 6 (See Recommended Applications Table) 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.

**SPRAY EQUIPMENT CLEANING AND DECONTAMINATION:** 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.

Thoroughly clean spray 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." Wash the spray tank, lines, and nozzles. 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.

Immediately after applying DEF 6, remove all unused spray mixture and follow directions on this label for disposal. Thoroughly clean the spray tank, lines, nozzles, and exterior surfaces of spray equipment. Use one of the cleaners listed above. Follow directions on this label for disposal of wash and rinse water.

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RECOMMENDED APPLICATIONS

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CROP	Pints DEF 6	Gallons/Water		Gallons/Diesel		DIRECTIONS
		Air	Ground	Air	Ground	
Cotton	1-1/3 to 2	5 to 10	15 to 25	3 to 5	5 to 10	<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 of once refined vegetable oil. For rank cotton, see below.
	1 to 1-1/2	-	10 to 15	-	5 to 10	<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	First Spray 2 to 3  Second Spray 1-1/2 to 2	5 to 10	15 to 25	3 to 5	5 to 10	<b>RANK COTTON DEFOLIATION</b> Apply specified dosage per acre to give thorough coverage of leaves when 50% or more bolls are open. Schedule second application of the specified dosage in 2 to 6 weeks for complete defoliation. One of the two DEF 6 applications, up to 2 pints per use season, may be made LV/ULV in not less than 1-1/2 pints of once refined vegetable oil. Do not apply more than 4-1/2 pints of DEF 6 per acre in any crop season.
Long Staple Pima Cotton	2 to 3	5 to 10	15 to 25	3 to 5	5 to 10	<b>PIMA COTTON DEFOLIATION</b> Apply specified dosage as a tank-mix with 0.2 to 0.4 lb Dropp 50WP per acre. For best results, apply the combination to mature cotton plants with 60% or more open bolls.

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RESTRICTIONS

Do not apply more than 4-1/2 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.

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: Triple rinse (or equivalent), offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by any procedures approved by state and local authorities.

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 Mobay Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Mobay Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

May be fatal if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin, on clothing or breathe vapor or spray mist. Causes substantial but temporary eye injury. Causes skin irritation. Wear protective clothing, rubber gloves, and goggles or face shield. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

STATEMENTS OF PRACTICAL TREATMENT

If swallowed, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz or 15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Have patient lie down and remain quiet. Professional medical assistance should be secured immediately.

In case of contact, remove contaminated clothing and flush skin and eyes with plenty of water. Wash contaminated clothing with soap and hot water before reuse. If poisoning occurs, obtain prompt medical aid.

**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 cardio-vascular 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 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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water or wetlands. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

DEF is a Reg. TM of Bayer AG, Germany.

Dropp is a trademark of Schering.