

PM 25
3125-282

1 of 4

Def 6

Emulsifiable Defoliant

For fast and effective cotton defoliation.

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

EPA Reg. No. 3125-282-AA

Contains 6 pounds S,S,S-Tributyl phosphorothioate per U.S. gallon.

STOP—Read the label before use.
Keep out of reach of children.

WARNING.

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

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.)

Do not use or store near heat or open flame.

NET CONTENTS 5 GALLONS

Mobay Corporation

A Bayer USA INC COMPANY



Agricultural Chemicals Division
Box 4913, Kansas City, Mo. 64120

Directions

It is a violation of its labeling.

IMPORTANT
using DEF 6 e

Conditions

The directions for correct use conditions similar to the crop to ordinary or unusual to follow label instructions that extend beyond the conditions.

Under favorable conditions (four to seven days) and does not apply at temperatures to fourteen days and the presence not adversely affect especially when used in conjunction with the Station or Extension.

Do not apply

Compatibility

Proper timing of more than one considered between the knife

Thorough defoliation

Rainfall: applied, which suppresses sufficient to

Defoliation (Except)

To obtain

ACCEPTED
DEC - 8 1987
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 3125-282

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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 control of pests 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.

Under favorable conditions DEF 6 gives effective defoliation of cotton within four to seven days after application. DEF 6 drops the leaves in a green condition and does not appear effective until defoliation actually begins. When continued low temperatures prevail at night (below 60° F.), complete defoliation may require nine to fourteen days. DEF 6 may be used whether or not moisture is present on cotton, and the presence or absence of dew or rain, during or following application, does not adversely affect the performance. DEF 6 does not suppress second growth, especially where rainfall follows defoliation. Schedule all applications in accordance with local recommendations. Consult your State Agricultural Experiment Station or Extension Service for specific use information.

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

Complete defoliation.

Proper Timing: DEF 6 should be applied 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 suitably mature if the youngest bolls (1) cannot be dented by pressure between thumb and forefinger or (2) cannot easily be cut through with a sharp knife.

Thorough Coverage: All leaves must be treated to accomplish complete defoliation.

Rainfall: DEF 6 will provide efficient complete defoliation when properly applied, whether rain or dew is present during or after application, but does not suppress second growth, especially in areas where rainfall follows treatment sufficient to delay picking.

Defoliation and Inhibition of Regrowth: (Except California)

To obtain defoliation and to provide improved inhibition of regrowth or secondary growth

apply DEF 6 according to label directions at rates of 1.0 to 1-1.3 pints per acre as a tank-mix combination with 0.066 to 0.1 lb. of Dropp 50WP defoliant and regrowth inhibitor. Best activity will be obtained where the tank mix is applied to mature cotton plants when 60% or more of the bolls are open and where the average mean 24-hour temperature before and after application is above 60° F. Use the lower rates of each product when conditions are favorable for rapid defoliation (high temperatures and high humidity). Adverse conditions such as low temperature may require the use of the higher dosages and/or longer times for complete defoliation. A second application of labeled rates of the tank-mix combination, or of DEF 6 alone, may be made where necessary.

Do not apply DEF 6 plus Dropp 50WP to immature cotton (less than 50% of bolls open) or use higher than recommended dosages of either product in tank-mix combination, since desiccation and leaf freezing may occur.

Apply as a dilute spray in 5 to 10 gallons of water per acre by air or 10 to 25 gallons of water per acre with ground equipment. Do not apply in oil carrier.

Always follow the mixing suggestions found on this label or on the appropriate adjuvant label. It is suggested that adjuvants be tested on a limited scale prior to large scale use. Contact your local Mobay representative for additional information.

When applying DEF 6 defoliant and Dropp 50WP defoliant as a tank-mix combination, the following order of mixing is recommended: (1) water, (2) Dropp 50WP (according to directions on Dropp label), (3) adjuvant, if used, and (4) DEF 6 after Dropp has completely dispersed.

Bottom defoliation.

Much seed cotton is lost due to rot and exposure in the bottom bolls which are the first to mature. An application of DEF 6 using shielded drop nozzles (four 8001 fans or two 1/8K 1 or 1.3 (flooding)) to the lower leaves where all the bolls are mature will cause the treated leaves to drop, exposing the mature bolls to air movement and sunlight. By removing the top 8 to 12 rows of spindles from a picker, the exposed bolls may be harvested. DEF 6 leaves the plant green and flexible so that no damage is done by the picker to the untreated top leaves and immature bolls. Complete defoliation and picking can follow, usually in 3 to 4 weeks. Other additional benefits gained by bottom defoliation, even without picking the exposed bolls, are:

- Reduction of boll rot (up to 1/4 to 1/2 rate per acre)
- Faster rate of opening of lower mat. bolls
- Reduced lodging
- Higher grade of cotton
- More cotton from fewer pickings

Dilute sprays.

MIXING: DEF 6 forms an emulsion when diluted with water and is suitable for use in all power-operated ground and aircraft sprayers. It is non-corrosive and non-clogging to spray equipment and does not constitute a fire hazard.

DEF 6 may be added to diesel oil, in accordance with local recommendations to increase effectiveness, particularly where night temperatures drop to below 60° F., where plants have had insufficient moisture, and on storm-proof varieties of cotton. The use of 3 to 5 gallons of oil per acre is generally required for aircraft spraying, while 5 to 10 gallons is recommended for ground applications. Where oils are used, particular care should be exercised to avoid spray drift to adjacent crops.

DOSAGE: Use specified dosage of DEF 6 per acre in the amount of water or

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coverage. The quantity of water or oil to be applied upon the equipment used in all cases, applied to treat all leaves. Larger droplets more than 500 microns require 10 to 20 gallons of water ordinarily required for ground application in the table below for both air and ground spray pattern is such that a uniform wetting of

or on) DEF or DEF + Dropp may also be applied with petroleum-based oils and suitable emulsifiers, spray coverage. Only products which are exempt from registration may be used. Prior to mixing in the spray tank, it is recommended to determine the compatibility of DEF or DEF +

has been used in the same spray equipment and may cause irregularly dried deposits on aircraft fabric

or food or forage. Do not use on plants other than cotton as this product may cause leaf damage. Sprays are less likely to drift. Do not use in conjunction with a chemical cleaner before using for fertilizer, seeds, insecticides, fungicides

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

For disposal of excess pesticide, spray mixture, or empty container, contact your State Pesticide or Environment Control Office or Waste representative at the nearest EPA

or equivalent). Then offer for recycling or disposal in a sanitary landfill or by other means approved by local authorities.

Keep away from open flame and extreme heat, and in such a location with other pesticides, fertilizers, food, and out of the reach of children, preferably in a

container as to prevent spillage. If container is leaking or material spilled, do not use spilled material to prevent runoff. Refer to the label for hazards associated with the handling of this material. Absorb spilled material with absorbent material directed for pesticides above. In spill or leak away. You may contact the Mobay Emergency Response 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.

Recommended applications

CROP	Pints DEF 6	Gallons of Water		DIRECTIONS
		Air	Ground	
Cotton	1 to 2	5 to 10	15 to 25	COMPLETE DEFOLIATION Apply specified dosage per acre in recommended gallons of water to give thorough coverage to mature cotton when 50% or more of the bolls are open. Applications can be made until first frost but should not be used within 7 days of picking. For rank cotton, see recommendation below.
	1 to 1 1/2	-	10 to 15	BOTTOM DEFOLIATION Apply specified dosage per acre in recommended gallons of water with spray directed only on the lower part of the plant in the area where only mature bolls are found. Do not use within 7 days of picking. The bottom defoliation rate should be proportional to the fraction of the plant to be defoliated.
Rank Cotton	3	5 to 10	15 to 25	COMPLETE DEFOLIATION OF RANK COTTON Apply specified dosage per acre in the recommended amount of water to give thorough coverage of mature cotton when 50% or more of the bolls are open. Schedule 2 applications of the specified dosage two to six weeks apart for complete defoliation of rank cotton. Applications can be made until first frost but not within 7 days of picking.

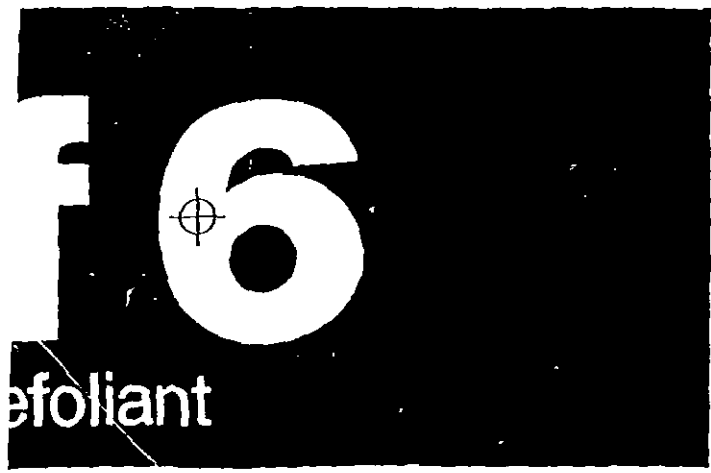
Precautionary statements. Hazards to humans and domestic animals. Warning.

May be fatal if swallowed, inhaled, or absorbed through the skin. Do not breathe spray mist. Do not get in eyes, on skin, or on clothing. Wash with soap and warm water after handling and before eating or smoking.

For protection during application wear a hat, long sleeved shirt and long legged trousers. In addition, mixer-loaders must wear rubber or neoprene gloves.

Do not contaminate feed or food. Keep out of reach of children.

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Statements of practical treatment

If swallowed, vomiting should be induced. Induce vomiting by giving one dose (1/2 oz. or more) of a 1% solution of sodium sulfate. If this does not occur within 10 to 20 minutes, administration of a 1% solution of sodium sulfate is not available, induce vomiting by sticking the tongue down and forcing water into the mouth. If fluid is clear. Never give anything by mouth to a comatose patient. Lie down and keep quiet. Professional medical attention should be obtained immediately.

In case of contact, remove contaminated clothing and wash immediately with plenty of water. Wash contaminated clothing if poisoning occurs, obtain prompt medical attention.

To physician.

This product inhibits cholinesterase in the nervous system, the parasympathetic nervous system. Poisoning with this product also results in symptoms which must be treated as separate cholinergic effects.

Use atropine sulfate to reverse cholinergic effects. Symptomatic treatment of the cardiovascular system should be given although the cholinergic symptoms have ceased. Watch for pulmonary edema, which may occur even after 12 hours. The use of respiratory distress.

Environmental hazards.

DANGEROUS SPECIES RESTRICTIONS
 The following restrictions apply to use of this product in the following States:
 Before using this pesticide on cotton in the following States, consult the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES to be used. The Extension Agent, State Fish and Game Office, should be consulted. The use of this product in a manner inconsistent with the PROTECTION OF ENDANGERED SPECIES is a violation of the law.

State	County
Alabama	Colbert, Greene, Jackson, Lamar, Lauderdale and Sumter
Arkansas	Clay, Clark, Cross, Lawrence, Lee, Poinsett
California	Solano
Florida	Broward, Dade, Glades and Palm Beach
Kentucky	Bartlett, Butler, Edmondson, Green, Hart, Jackson, Madison, Meade, Rockcastle, Taylor, Warren
Mississippi	Itawamba, Lowndes, Monroe and Neshoba
North Carolina	Edgecombe, Nash and Pitt
Tennessee	Bedford, Blount, Claiborne, Decatur, Franklin, Loudon, Marshall, Maury, Meigs, Monroe, Rhea, Wayne
Virginia	Lee, Russell, Scott, Smyth, Tazewell, Washington

This product is toxic to fish. Keep out of lakes and streams. Do not apply when runoff is likely to occur. Do not apply when wind is blowing. Do not contaminate water by cleaning of this product only as specified on this label.

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EPA Est. 3125-MO-1

DEF is a Reg. TM of Bayer AG, Germany. Dropp is a trademark of Nor Am Chemical Corporation.

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