



DEF 7

EMULSIFIABLE DEFOLIANT

For fast and effective cotton defoliation

ACTIVE INGREDIENT	
S,S,S-Tributyl phosphorotrithiate	80.5%
INERT INGREDIENTS	19.5%
	100.0%

DEF 7 is a registered pesticide under FFA Reg. No. 3125-308.

DEF 7 contains S,S,S-Tributyl phosphorotrithiate per gallon.

NET CONTENTS 5 GALLONS

CAUTION Do not use or store near heat or open flame.

WARNING

KEEP OUT OF REACH OF CHILDREN

DEF 7 is a registered pesticide under FFA Reg. No. 3125-308.

STOP READ THE LABEL BEFORE USE

CHEMAGRO AGRICULTURAL DIVISION
MOBAY CHEMICAL CORPORATION

DIRECTIONS FOR USE

IMPORTANT: Read these and the Directions and conditions of use before using DEF 7 on any other crop.

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. FAILURE TO FOLLOW THESE DIRECTIONS OR THE OCCURRENCE OF WEATHER CONDITIONS THAT ARE EXTRAORDINARY OR UNUSUAL FOR THE USE AREA MAY RESULT IN UNSATISFACTORY PERFORMANCE OF THE PRODUCT. CHEMAGRO AND THE SELLER OFFER, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE AFOREMENTIONED CONDITIONS WHICH ARE BEYOND THE CONTROL OF CHEMAGRO AND THEREFORE THE RESPONSIBILITY OF THE BUYER.

Under favorable conditions DEF 7 gives effective defoliation of cotton within four to seven days after application. DEF 7 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 7 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 7 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.

COMPLETE DEFOLIATION:

Proper Timing: DEF 7 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 7 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.

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 7 using shielded drop nozzles, four 800' fans or two 1.8 K 1 or 1.5 flooding fans, 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 7 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 74% to 76% per acre.
- Faster rate of opening of lower mature bolls.
- Reduced lodging.
- Higher grade of cotton.
- More cotton from fewer pickings.

DILUTE SPRAYS*

MIXING: DEF 7 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 7 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 7 per acre in the amount of water or diesel oil necessary to give complete coverage. The quantity of water or oil to be used per acre is dependent somewhat upon the equipment used. In all cases, the water or oil spray should be applied to treat all leaves. Larger droplets more effectively reach the lower leaves. The gallons of water ordinarily required for adequate coverage are recommended in the table below for both air and ground spray applications. Make sure the spray pattern is such that all leaves, with the underside surfaces, receive treatment.



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WERE DETERMINED THROUGH THIS PRODUCT HAS SIMILAR TO THOSE WEATHER CONDITIONS WHERE THE PRODUCT OCCURRENCE OF WEATHER CONDITIONS AREA MAY RESULT IN UNSATISFACTORY RESULTS. THE SELLER OFFERS AND THE FOREMENTIONED CONDITIONS BEFORE THE RESPONSIBILITY OF

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t of water or diesel is necessary, 1/2 acre is dependent somewhat on the be applied to treat a 1/2 acre. A larger ter ordinarily required for adequate ground spray application. Make sure results



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ACTIVE INGREDIENT	
S,S,S-Tributyl phosphorothioate	80.5%
INERT INGREDIENTS	19.5%
	100.0%

EPA Reg. No. 3125-308

Contains 7 pounds S,S,S-Tributyl phosphorothioate per U.S. gallon

NET CONTENTS 5 GALLONS

CAUTION Do not use or store near heat or open flame

WARNING

KEEP OUT OF REACH OF CHILDREN

See label for warning statements

STOP READ THE LABEL BEFORE USE

SOLD BY
CHEMAGRO AGRICULTURAL DIVISION
MOBAY CHEMICAL CORPORATION
P.O. BOX 1000, MOBILE, ALA. 36688

RECOMMENDED APPLICATIONS

CROP	Dosage DEF 7	Gallons of Water		DIRECTIONS
		Air	Ground	
				COMPLETE DEFOLIATION Apply specified dosage per acre in recommended gallons of water to give thorough coverage of mature cotton when 50% or more of the buds are open. Application can be made until first frost but should not be made within 7 days of picking. For rank cotton, see recommendation below.
				BOTTOM DEFOLIATION Apply specified dosage per acre in recommended gallons of water. Spray directly into the lower part of the plant in the area where buds are open. Do not use within 7 days of picking. The bottom defoliation rate should be proportionate to the fraction of the plant to be defoliated.
Rank Cotton				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 buds are open. Schedule 2 applications of the specified dosage two to three weeks apart for complete defoliation of rank cotton. Applications can be made until first frost but not within 7 days of picking.

PRECAUTIONS

If chlorate type chemicals have been used in the same spray equipment, thoroughly wash spray tank and particularly dried deposits on aircraft fabric

RESTRICTIONS

Do not use on other crops used for food or forage. Avoid spray drift to susceptible plants other than cotton as this product may injure or defoliate other crops. (Coarse sprays are less likely to drift.) Thoroughly clean the spray equipment with a chemical cleaner before using for other products. Do not store near fertilizers, seeds, insecticides, fungicides. This product is toxic to fish. Keep out of lakes, streams, or ponds. 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.

CONTAINER AND WASTE DISPOSAL

Do not reuse empty container. Dispose of empty containers by burying with wastes in non-crop land away from water supplies or by burning. (Keep out of smoke)

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 water after handling and before eating or smoking. In case of contact, remove contaminated clothing and flush skin and eyes with plenty of water. If ingested, induce vomiting. Wash contaminated clothing with soap and hot water before reuse. If poisoning occurs, obtain prompt medical aid. Do not contaminate feed or food. Keep out of reach of children.

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 pathologic entities apart from the cholinergic effects. Use 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.

