

TRIBUTYL PHOSPHOROTRITHIOATE SPRAY CONCENTRATE COTTON DEFOLIANT

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

*Contains 6.0 lbs. Active Ingredient per gallon.

NET CONTENTS
 EPA REG. NO. 2749-180

CAUTION: KEEP OUT OF THE REACH OF CHILDREN.

POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. DO NOT BREATHE SPRAY MIST. USE WITH ADEQUATE VENTILATION AND WHEN USING, WEAR PROTECTIVE CLOTHING, GLOVES, MASK AND GOGGLES. AVOID CONTACT WITH EYES, SKIN, NOSE AND THROAT. IN CASE OF CONTACT, WASH THOROUGHLY WITH SOAP AND WATER. WASH CONTAMINATED CLOTHING WITH SOAP AND WATER BEFORE REUSE.

IF EYES ARE CONTAMINATED, FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

IN CASE OF POISONING, CALL A PHYSICIAN IMMEDIATELY. SYMPTOMS OF POISONING ARE A SENSE OF "TIGHTNESS" IN THE CHEST, STOMACH PAINS, CONTRACTED PUPILS, SWEATING, VOMITTING AND DIARRHEA. IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY THEN LET PATIENT LIE DOWN AND INDUCE VOMITTING BY GIVING A TABLESPOONFUL OF SALT IN A GLASS OF WARM WATER. KEEP INDUCING VOMITTING UNTIL VOMIT FLUID IS CLEAR.

DO NOT STORE NEAR FERTILIZERS, SEEDS, INSECTICIDES OR FUNGICIDES.

NOTE TO PHYSICIAN: Antidote is Atropine Sulfate. 2-PAM is also antidotal and may be administered in conjunction with Atropine.

Keep away from domestic animals and foodstuffs.

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate water used for irrigation or domestic purposes. Do not reuse empty container. Destroy empty container by perforating or crushing and burying in a safe place.

Apply this product only as specified on this label.

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.

SUFFICIENT SPRAY: The quantity of water or oil to be used per acre is dependent somewhat upon the equipment used. In all cases, however, sufficient spray should be applied to treat all leaves. Larger droplets more effectively reach the lower leaves.

PROPER APPLICATION: Make sure the spray pattern is such that a uniform wetting of leaf surfaces results.

RAINFALL: TRIBUTYL PHOSPHOROTRITHIOATE 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 TRIBUTYL PHOSPHOROTRITHIOATE using shielded crop nozzles (four 8001 fans or two 1/8 K 1 to 1.5 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. TRIBUTYL PHOSPHOROTRITHIOATE 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: 1) Reduction of boll rot (up to ¼ to ½ bale/acre); 2) Faster rate of opening of lower mature bolls; 3) Reduced lodging; 4) Higher grade of cotton; 5) Reduces insect infestation; and 6) More cotton from fewer pickings.

Schedule all applications in accordance with local recommendations. Consult your State Agricultural Experiment Station or Extension Service for specific use information.

DIRECTIONS FOR USE

Under favorable conditions TRIBUTYL PHOSPHOROTRITHIOATE gives effective defoliation of cotton within four to seven days after application, TRIBUTYL PHOSPHOROTRITHIOATE 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. TRIBUTYL PHOSPHOTRITHIOATE 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. TRIBUTYL PHOSPHOROTRITHIOATE does not suppress second growth, especially where rainfall follows defoliation.

MIXING: TRIBUTYL PHOSPHOROTRITHIOATE 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.

TRIBUTYL PHOSPHOROTRITHIOATE may be added to diesel oil, in accordance with local recommendations, to increase effectiveness, particularly where night temperatures drop 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 TRIBUTYL PHOSPHOROTRITHIOATE per acre in the amount of water or diesel oil necessary to give complete coverage. The gallons of water ordinarily required for adequate coverage are recommended in the table below for both air and ground spray applications.

SPRAYING: For most effective COMPLETE DEFOLIATION the following points are important considerations.

PROPER TIMING: TRIBUTYL PHOSPHOROTRITHIOATE 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.

CROP	Pints TRIBUTYL PHOSPHOROTRITHIOATE	Gallons of Water		DIRECTIONS
		Air	Ground	
Cotton	1-1/3	5	15	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.
	to	to	to	
	2	10	25	
Rank Cotton	1	10	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.
	to	to	to	
	1 1/2	10	15	
Rank Cotton	3	5	15	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 or six weeks apart for complete defoliation of rank cotton. Applications can be made until first frost but not within 7 days of picking.
	to	to	to	
	10	10	25	