



June 24, 1975

2542-961

DIRECTIONS FOR USE

TUMBLEAF Cotton Defoliant Concentrate 5 is a solution containing fire retardants which is to be mixed with water and the resultant solution applied as a spray to mature cotton. Each gallon of Concentrate 5 contains 5 pounds of dry granular TUMBLEAF Cotton Defoliant. Applications can be made by either ground or aerial spray equipment. Surfactants (spreader-stickers), insecticides, herbicides or other defoliant are not to be added to the solution. Effective defoliation of cotton occurs when TUMBLEAF Cotton Defoliant is applied to cotton plants that are mature (80% of bolls are firm to thumb pressure) and are in stress (available moisture and nitrogen are in restricted phase). Speed of defoliation decreases as nighttime temperatures fall below 55°F. Rain following application does not drastically reduce defoliation effectiveness. Under favorable conditions, leaf drop will start in several days and be complete within 7 - 10 days.

A preconditioning application of TUMBLEAF Cotton Defoliant is not recommended as such applications inhibits the growth of immature bolls. The recommendations of your State Agricultural Experiment Station or State Agricultural Extension Service should be followed.

APPLICATION RATES

The table below gives application rates for various conditions of the cotton crop.

Condition of the Crop		Gallons TUMBLEAF Cotton Defoliant Concentrate to Apply Per Acre
Short or Thin	In Stress	$\frac{4}{5}$
	Not in Stress	1
Good	In Stress	1 $\frac{1}{2}$
	Not in Stress	1 $\frac{3}{4}$
Dense Foliage	Apply $\frac{1}{2}$ gallon per acre and follow in four to six days with a $\frac{4}{5}$ gallon per acre application	

To prepare a batch of spray solution

- (1) Determine number of acres to be treated, and select gallons of TUMBLEAF Cotton Defoliant Concentrate per acre to be applied. Multiply to obtain total gallons TUMBLEAF Cotton Defoliant Concentrate to be applied to this acreage.
- (2) Select spray solution application rate in gallons per acre, and multiply by number of acres to be treated to obtain gallons of spray solution required.
- (3) Run sufficient water, equal to about $\frac{1}{4}$ th of the gallonage of spray solution to be prepared into the batch tank, add required gallons of TUMBLEAF Cotton Defoliant Concentrate, and agitate until thoroughly mixed. Then add sufficient additional water to bring the volume to the required amount, and agitate to mix. TUMBLEAF Cotton Defoliant Concentrate may be added directly to the batch tank as mix water is being added.

Revision B

EPA Est. 2342-NV-1

tumbleaf[®] Cotton Defoliant

LIQUID CONCENTRATE 5

U S PATENT 3,867,125

ACTIVE INGREDIENT	BY WEIGHT
Sodium chlorate	25.6%
INERT INGREDIENTS	74.4%

CAUTION

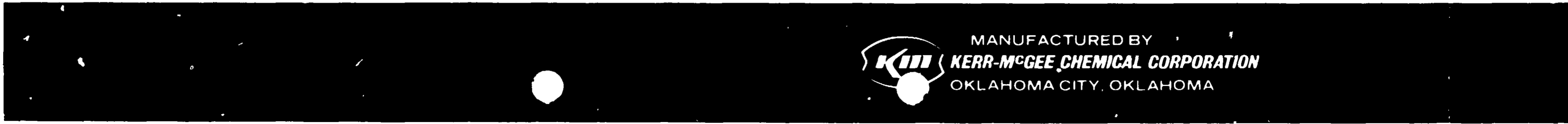
KEEP OUT OF REACH OF CHILDREN.

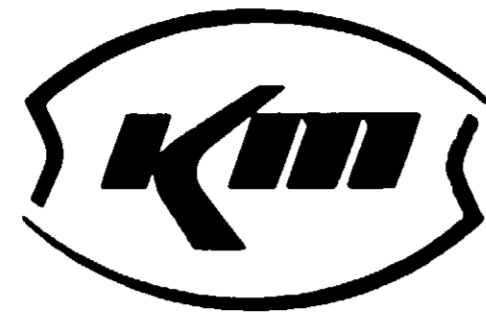
See side panel for additional precautionary information.

NET CONTENTS GALLONS



MANUFACTURED BY
KERR-McGEE CHEMICAL CORPORATION
OKLAHOMA CITY, OKLAHOMA





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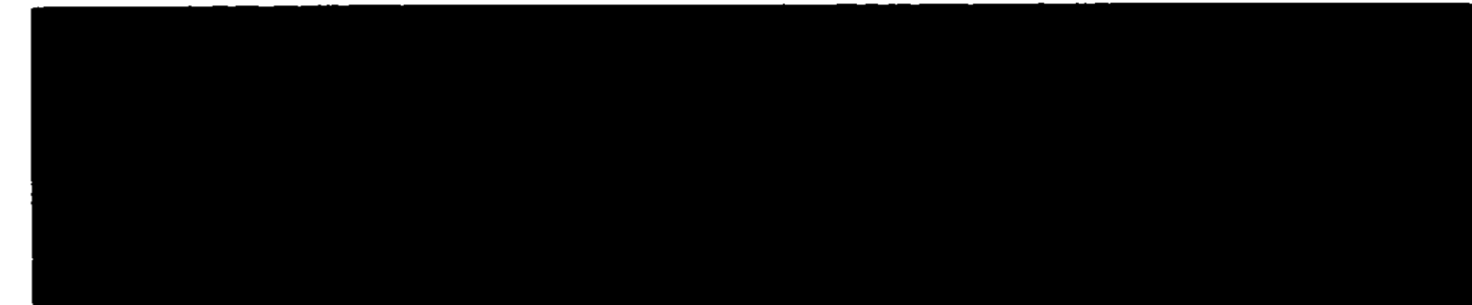
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NET CONTENTS GALLONS



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Ground application — Use high clearance spray equipment with at least five nozzles per row including one overhead nozzle, and adequate pressure to maintain a spray volume of 15 to 25 gallons of solution per acre.

Aerial application — Maintain a spray volume of 5 to 10 gallons of solution per acre. To reduce drift, applicators should fly close to the crop and should not apply during periods of thermal inversion. Accurate, uniform placement of the spray solution is essential for effective defoliation.

Cleaning Spray Equipment: Equipment used to apply other types of defoliant (including areas of contamination inside and outside the fuselages of spray planes) must be cleaned to remove all residues before TUMBLEAF Cotton Defoliant Concentrate is used. Failure to follow these directions may result in fire or other damage to the equipment. Equipment must also be cleaned after using TUMBLEAF Cotton Defoliant Concentrate.

Environmental Precautions — This product is nonselective and is harmful to all vegetation. Spray, drift, seepage, and drainage will injure or kill all vegetation. Do not contaminate water by cleaning of equipment, or disposal of wastes. Dispose of waste in accordance with federal, state and local regulations. Apply this product only as specified on this label. Do not reuse container. Destroy when empty.

NOTE — Do not apply more than 1 1/4 gallons of Concentrate per acre. Do not apply within 7 days of harvest. Do not graze treated areas or feed gin waste to livestock.

CONDITIONS OF SALE

All statements concerning the use of this product apply only when the product is used as directed. THERE ARE NO WARRANTIES INCLUDING MERCHANTABILITY WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL. The manufacturer shall in no event be liable for consequential damages. Read all directions carefully.

PRECAUTIONARY INFORMATION: CAUTION! May cause skin irritation. Harmful if swallowed. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

FIRST AID — In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water. Wash clothing before reuse.
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