



MONTEREY
CHEMICAL
COMPANY

COTTON-AIDE HC

Cotton Defoliant
For Use As A Defoliant For
Irrigated and Dryland Cotton

ACTIVE INGREDIENTS:	
Sodium Cacodylate	28.00%
Dimethylarsinic Acid (Cacodylic Acid)	5.00%
INERT INGREDIENTS:	66.00%
TOTAL	100.00%
Total Arsenic (as elemental) all in water soluble form: 16.28%	
Contains 3.25 lbs. Cacodylic Acid Equivalent per gallon.	

ACCEPTED

JUN 30 1988

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 17545-2

READ ENTIRE LABEL BEFORE USING THIS PRODUCT

KEEP OUT OF REACH OF CHILDREN
CAUTION:

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or inhaled. Avoid breathing spray mist. (Coarse sprays are less likely to drift.) Avoid contact with eyes, skin, or clothing. Causes eye irritation. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep children and domestic animals off treated areas until washed into the soil. Avoid contamination of feed or food products.

STATEMENT OF PRACTICAL TREATMENT

If swallowed, call a physician immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. DO NOT induce vomiting or give anything by mouth to an unconscious person.

If on skin, wash with plenty of soap and water. Get medical attention if irritation persists.

If inhaled, remove victim to fresh air. Apply artificial respiration, preferably by mouth to mouth, if indicated.

If in eyes, flush with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. DO NOT apply directly to water. DO NOT contaminate water by cleaning equipment or disposal of wastes.

EPA Reg. No. 17545-2
EPA Est. No. 42519-IS-01
NET CONTENTS: 2.5 GALLONS

This product is manufactured by:



MONTEREY
CHEMICAL
COMPANY

P.O. BOX 5317
FRESNO, CALIFORNIA 93755

0185 / 0188(01)

✓ GENERAL INFORMATION: COTTON-AIDE HC is used as a harvest aid for the defoliation of cotton. Its phytotoxic properties are quickly inactivated on contact with the soil. It is a combination of a defoliating agent and surfactant (which is cleared for application to growing crops). It is desirable to add additional surfactant (which is cleared for application to growing crops) when using ground application equipment (see use directions); none need be added for aerial application.

COTTON-AIDE HC is also a non-selective herbicide. It will kill grasses and weeds on contact. Destruction of weeds and grasses around plants, shrubs, trees and bushes may be accomplished by directing spray to the undesired vegetation.

CARE OF EQUIPMENT: Although COTTON-AIDE HC is only moderately corrosive, do not apply with any applicator having zinc, aluminum, magnesium or alloy components. Clean equipment after use by flushing with water.

DIRECTIONS FOR USE

It is a violation of Federal and State Law to use this product in any manner inconsistent with this label.

✓ CHEMIGATION: DO NOT apply this product through any type of irrigation system.

MIXING AND APPLICATION INSTRUCTIONS: Fill spray tank with desired quantity of water. While agitating, add the recommended amount of COTTON-AIDE HC. Thoroughly mix prior to application. COTTON-AIDE HC contains a suitable surfactant. The sprayer should be carefully calibrated for best results. Apply the spray solution at the proper rate in the proper amount of water to the properly measured area.

✓ DEFOLIATION OF DRYLAND COTTON: Apply 2-2½ pints per acre 7-10 days prior to harvest and when over 50% of bolls are open.

✓ DEFOLIATION OF IRRIGATED COTTON: Apply ½ pint per acre more than dryland cotton rate.

Tank Mixture Recommendation: Tank mixtures with DEF cotton defoliant may be added for more consistent defoliation under wider range of conditions. Use COTTON-AIDE HC at 1 1/2 to 2 pints per acre and an added defoliant at 1 - 1 1/2 pints per acre. Observe all directions, precautions, and limitations on both products' labels. DO NOT exceed recommended label rates for each individual defoliant chemical.

✓ Note: For defoliation, all leaves must be contacted by properly placed nozzles. If applied by aircraft, use 5-10 gallons of water per acre. If applied by ground equipment, a volume of 15-20 gallons of water per acre should be used to which is added about 1/2 pint of a non-ionic surfactant. DO NOT feed treated foliage to livestock or graze treated areas.

Avoid contact with aircraft components to avoid corrosion.

✓ GENERAL WEED CONTROL: COTTON-AIDE HC may be used in non-crop areas, such as rights-of-way, equipment yards, fence rows and drainage ditches during the warm growing season. Sun and high temperatures accelerate herbicidal activity. Apply 1 gallon of COTTON-AIDE HC in 55-80 gallons of water to cover 16,600 sq. ft. Foliage should be wet thoroughly to run-off. COTTON-AIDE HC will top-kill perennials. Repeat application may be necessary. Apply second treatment 5 days after first application.

Note: COTTON-AIDE HC contains a suitable wetting agent for normal use. However, for hard to kill and larger weeds in certain arid regions, addition of a crop oil concentrate (which is cleared for application to growing crops) or an additional appropriate surfactant (which is cleared for application to growing crops) will enhance weed control. DO NOT use in vegetable gardens. DO NOT contaminate water used for irrigation or domestic purposes.

STORAGE AND DISPOSAL

PROHIBITION: DO NOT store near feed or food products.

✓ 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 representatives at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY - CONDITIONS OF SALE: DIRECTIONS FOR USE of this product are based on field use and tests believed reliable and should be followed carefully. It is, however, impossible to eliminate all risks associated with use of this product. Because such factors as weather conditions, foreign material and manner of use for application are all beyond the control of Monterey Chemical Company or the Seller of this product, such things as crop injury, ineffectiveness or other unintended consequences may result. ALL SUCH RISKS ARE ASSUMED BY THE BUYER.

Monterey Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use as modified by the above. Monterey Chemical Company makes no other warranties, express or implied, including FITNESS or MERCHANTABILITY. In no case shall Monterey Chemical Company or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. The foregoing is a condition of sale by Monterey Chemical Company and is accepted as such by the Buyer.

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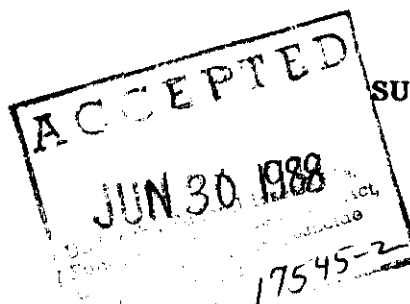
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5150 N. SIXTH STREET, SUITE 150
P.O. BOX 5317 • FRESNO, CALIFORNIA 93755
TELEPHONE (209) 225-4770



SUPPLEMENTAL LABELING

COTTON-AIDE HC

EPA Reg. No. 17545-2

This bulletin contains supplemental Directions for Use which have been approved by the U.S. Environmental Protection Agency but do not appear on the container label of this product. This supplemental labeling must be in possession of the User at the time of application. Refer to the container labeling for Precautionary Statements, Statements of Practical Treatment, General Product and Care of Equipment Information, Mixing and Application Instructions, and Storage and Disposal Directions.

STOP, READ THIS LABEL CAREFULLY BEFORE USING PRODUCT

DIRECTIONS FOR USE

**It is a violation of Federal Law to use this product
in a manner inconsistent with its labeling.**

accepted since 1965
LAWN RENOVATION: To destroy weedy sections of lawns and turf, apply COTTON-AIDE HC at any time during the warm growing season. Sun and high temperatures accelerate herbicidal activity. Apply 1 gallon COTTON-AIDE HC in 65-80 gallons of water to cover 16,600 sq. ft. Foliage should be wet thoroughly to run-off. COTTON-AIDE HC will top-kill perennials. Repeat application may be necessary. Apply second treatment 5 days after first application

CAUTION: Reseeding after weed control should be preceded by heavy watering. Consult agriculture experimental station and extension service weed specialists for most desirable seeds and mixtures. Seeds may be worked into soil if necessary, by scarifying or raking. A light top dressing of screened peat moss will help retain moisture during germination. Delay reseeding a minimum of 5 days after last application.

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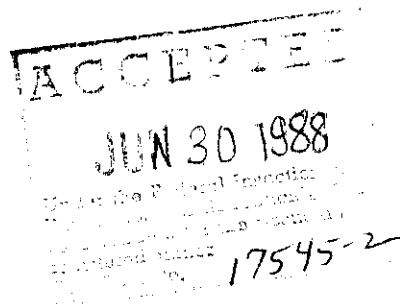


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***FOR AID IN CONTROL OF DUTCH ELM DISEASE BY REDUCING VECTOR POPULATIONS**

GENERAL INFORMATION

COTTON-AIDE HC will aid in the control of Dutch elm disease (DED) by eliminating the breeding material of bark beetles** that transmit disease-causing fungus and by absorbing in-flight adult beetles. Diseased or unwanted elm trees treated with COTTON-AIDE HC may be mass attacked by beetles but their broods will substantially fail. Attraction for the European elm bark beetle may be prolonged and enhanced by use of suitable pheromones. Treated trees usually do not need to be taken down for DED control but should be removed within 2 years of treatment if they are in a location where falling branches will be hazardous.

**European elm bark beetle, Scolytus multistriatus, and native elm bark beetle, Hylurgopinus rufipes.

CAUTION: COTTON-AIDE HC will kill any vegetation it contacts. It may be transmitted through root grafts between adjacent elm trees.

*Not for use in California.

SPECIALTY AGRICULTURAL CHEMICALS
MICRONUTRIENTS FOR AGRICULTURE AND FEED
AGRICULTURAL RESEARCH

DIRECTIONS FOR USE

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1. Timing of Treatment

Trees may be killed at any time of the year; however, do not expect optimal results from injection treatments during periods when trees are not in full leaf. COTTON-AIDE HC will be effective in trees or portions of trees that are alive at the time of treatment. COTTON-AIDE HC will not affect bark beetle broods present in trees at the time of treatment.

For optimal colonization by the European elm bark beetle, trees should be baited with suitable attractant pheromones and treated in May and July, about 14 days before flight periods. In some instances it may be best to ask manufacturer for details. In areas where the native elm bark beetle predominates, the optimal times for treatment are September-October and April-May. However, diseased and weed elms can be eliminated as potential brood material by treatment at any time of the year.

2. Application Methods

Trees of less than 15 in. diameter can be treated at any time by the frill method. Larger trees can be effectively treated in this manner from September to April. Injection or chainsaw methods should be used on trees 16 in. in diameter or larger in the months May through August.

Frill Method: Using a sharp ax, cut at least $\frac{1}{2}$ in. into the sapwood in contiguous chops around the tree. Fill the ax cuts with undiluted COTTON-AIDE HC, using a low pressure sprayer or plastic squeeze bottle. When the material is absorbed, fill again.

Injection Method: Inject undiluted COTTON-AIDE HC in 4-6 holes drilled in the major buttress roots at the base of the tree. Pressure of 5-10 psi is usually sufficient to introduce the recommended dosage within 15 minutes. Inject only in areas of the tree that are alive. Frill the tree and introduce COTTON-AIDE HC as described above. Root graft transmission of the herbicide to adjacent elms can be prevented by making a 2-in. deep chainsaw cut below injection points.

Chainsaw Method: Using the tip of a chainsaw blade, make plunge cuts about 2-3 in. deep into the trunk just above main root flairs. The cuts should form pockets that will hold about 50 ml of liquid. Between the plunge cuts, make shallow (about $\frac{1}{2}$ in.), downward slanting cuts into the tree trunk. Fill the cuts with undiluted COTTON-AIDE HC until the prescribed dosage is absorbed.

3. Dosages

Tree Diameter (inches)	Amount		
	(ml)	(fluid oz.)	(pt.)
<15	50-240	1-8	0.1-0.5
15	300	10	0.6
20	500	16	1.0
25	800	26	1.6
30	1200	40	2.5
35	1600	54	3.4
40	2000	67	4.2
45	2500	84	5.3
50	3000	100	6.3

*Not for use in California

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