

Cotoran[®] + MSMA

with Surfactant

Herbicide

SAMPLE LABEL

For postemergence weed control in cotton.

Active Ingredients: 40.8%
 Fluometuron: 1,1-dimethyl-3-(3,4,5-trifluoro-*n*-tolyl) urea . . . 13.2%
 Monosodium acid methanesulfonate* 27.6%

Inert Ingredients: 59.2%
Total: 100.0%

*Total arsenic, as elemental, all in water soluble form, 12.7%.

This mixture contains 2.0 lbs. Cotoran 80WP and 3.3 lbs. MSMA (6.0 lbs. DSMA equivalent) per gallon.

SHAKE WELL BEFORE USING
 Do not store at temperatures below freezing.
 Keep container closed.

Caution:
 Keep out of reach of children. Harmful if swallowed. Avoid contact with skin. Avoid breathing spray mist. Wash hands with soap and water before eating, drinking or smoking. Wear clean clothing. Do not store near food or feed. Do not reuse container. Destroy when empty. Do not contaminate water used for irrigation or domestic purposes.

Fish and Wildlife Caution:
 This product is toxic to wildlife. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label.

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions For Use and the Conditions Of Sale And Warranty before using this product.

Conditions Of Sale And Warranty

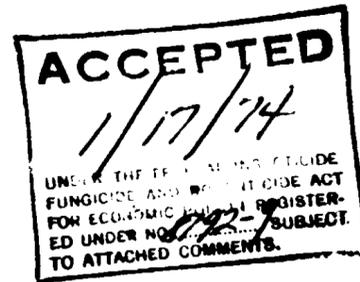
The Directions For Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY 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, subject to the inherent risks referred to above. CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions Of Sale And Warranty which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

ACCEPTED
 Jan 14 1974
 8192-9

RECEIVED
 NOV 15 1973
 Pesticide Research
 Division, EPA

CIBA-GEIGY EPA Reg. No. 8192-9



General Information

Cotoran + MSMA with Surfactant is effective for postemergence control of broadleaf and grass weeds in cotton, such as:

Grass Weeds

- | | |
|---------------|--------------|
| Barnyardgrass | Foxtail |
| Brachiaria | Goosegrass |
| Crabgrass | Johnsongrass |
| Crowfootgrass | Nutgrass |
| Dallisgrass | Ryegrass |
| Fall panicum | Sandbur |

Broadleaf Weeds

- | | |
|--|--------------|
| Buttonweed | Puncturevine |
| Cocklebur | Purslane |
| Florida pusley | Ragweed |
| Goathead | Sesbania |
| Jimsonweed | Sicklepod |
| Lambsquarters | Smartweed |
| Morningglory | Tumbleweed |
| Pigweed | |
| Prickly sida
(ironweed or
teaweed) | |

Band Treatment

For band applications, the following formula may be used to calculate the amount of Cotoran + MSMA with Surfactant required:

Band width in inches	X 0.5	amount, in gallons
Row width in inches		needed for band treatments

Equipment

Use conventional spray equip-

ment and TeeJet nozzle tips 8002 to 8006, or equivalent. Screen size should be 50 mesh.

Mixing Instructions

Cotoran + MSMA with Surfactant is a highly concentrated formulation and should be thoroughly shaken before mixing. Pour recommended amount of Cotoran + MSMA with Surfactant into nearly filled spray tank or premix in a bucket half filled with water and pour mixture into nearly filled spray tank. By-pass agitation should terminate at the bottom of the tank to minimize foaming. Avoid leaving spray mixture in tank without constant agitation.

Do not add surfactant to the mix or damage may result.

After use, clean equipment thoroughly. Do not contaminate water by dumping unused spray or washings in ponds or streams. Destroy empty containers.

Directions For Use

Apply Cotoran + MSMA with Surfactant at the broadcast rate of 1/2 gallon per acre, in 25 to 40 gallons of water per acre. Direct spray to the base of the cotton plants, avoiding the cotton foliage. Apply only when cotton is 3 inches high to first bloom. Best results

obtained when applied to young, actively growing weeds at air temperatures above 70°F.

Precaution: Do not make more than two applications of Cotoran + MSMA with Surfactant to the same crop or field in any one year.

Slight burnings and a reddish discoloration of the cotton leaf may occur occasionally following treatment with products containing MSMA, but the cotton plants will develop normally.

West Texas Only: Do not use this product on sandy, loamy sand, or fine sandy loam soils.

Note: Keep children and livestock off treated areas until this material has been washed into the soil. Do not graze treated field or feed plants or gin trash from treated areas to livestock. Do not plant crops other than cotton within six months after last application.

Cotoran, trademark of CIBA-GEIGY for fluometuron
U.S. Patent No. 3,134,665 (fluometuron)

Agricultural Division
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November 8, 1973

