

JUN 21 1989

Mr. Michael A. Jackson
Platte Chemical Company
P.O. Box 667
Greeloy, (X) 50632

Dear Mr. Jackson:

Subject: Amendment - Add Additional Sites
Crop MSMA 6 Plus
EPA Registration No. 34704-115
Your Submission Dated March 24, 1989

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling change listed below before you release the product for shipment bearing the amended labeling:
 - Under Environmental Hazard, add "Do not contaminate water when disposing of equipment washwaters."
3. Submit one (1) copy of your final printed labeling before you release the product for shipment.

52561:I:CR-44:Ikeda:IMP-14:KEMCO:04/17/89:04/27/89:WV:ek:rv

CONCURRENCES

NO.									
NAME									
DATE									

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

^{LPS}
Larry Schnaubelt
Acting Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

CLEAN CROP
MSMA 6 PLUS

MSMA plus Surfactant For Postemergence Weed Control in Cotton;
Certain Fruit, Nut and Grass Seed Crops, Turfgrasses and Forestry

Product Contains 6 Pounds of MSMA Per Gallon

ACTIVE INGREDIENT:

Monosodium Acid Methanearsonate..... 48.32%

INERT INGREDIENTS: 51.68%

TOTAL 100.00%

Total Arsenic, all in water-soluble form,

expressed as elemental 22.37%

KEEP OUT OF THE REACH OF CHILDREN (12 pt.)

CAUTION (18 pt.)

See Side Panels for Additional Precautionary Statements

EPA Reg. No. 34704-115

EPA Est. No.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

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June 21, 1989

CLEAN CROP is a Registered T.M. of United Agri Products, Inc. Insecticide, Fungicide, and Herbicide, as amended, registered under EPA Reg. No. 34704-115

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid contact with skin. Wash hands after using. Avoid contact with eyes. Avoid breathing spray mist. Keep children and domestic animals off treated areas until spray has dried or this material has been washed into the soil.

Wear protective clothing when handling or applying this product including long pants, long-sleeved shirt, and impermeable gloves and boots. Mixer-loaders should include an apron and full-face shield when handling or mixing concentrate. Flagmen should be fully protected during spray operations or mechanical flagmen used. Pilots and ground spray rig applicators should wear a mask or respirator approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health.

ENVIRONMENTAL HAZARDS

DO NOT feed treated foliage to livestock or graze treated areas. DO NOT spray or allow drift onto vegetable, ornamental or other desirable plants. DO NOT apply when weather conditions favor drift from target area. DO NOT apply directly to water. DO NOT contaminate water by cleaning of equipment or disposal of wastes.

DO NOT CONTAMINATE WATER USED FOR DOMESTIC CONSUMPTION OR BY ANIMALS, WILDLIFE AND AQUATIC LIFE, OR FOR IRRIGATION PURPOSES.

Read entire label before using this product.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed--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. Get medical attention.

If Inhaled--Remove victim to fresh air. Apply artificial respiration if indicated.

If On Skin--Remove contaminated clothing and wash affected areas with soap and water.

If In Eyes--Flush eyes with plenty of water. Call a physician if irritation persists.

DIRECTIONS FOR USE

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

RE-ENTRY STATEMENT FOR AGRICULTURAL USE

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers.

Written or oral warnings must include the following information:

CAUTION

(Insert area or field description) treated with MSMA on (insert date of application)

In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to MSMA and describe his condition. For further information see the "STATEMENT OF PRACTICAL TREATMENT" portion of the pesticide label.

Do not enter treated areas without protective clothing and impermeable gloves until sprays have dried. Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.

Oral warnings must include the same information that is in the written warnings.

STORAGE AND DISPOSAL (12 pt.)

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic: 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.

GENERAL INFORMATION

This product is a herbicide for use in cotton, fruit, nuts, golf-courses, turf, and non-crop areas. This product contains a surfactant (wetting agent) in proper ratio for best results. It is not necessary to add additional surfactant to the spray tank. Local conditions and recommendations vary; consult local agricultural experiment station or extension service weed specialists for recommendations in your area.

A partial list of weeds, controlled with this product includes:

Bahiagrass	Dallisgrass	Nutsedge
Barnyardgrass	Foxtail	Figweed
<u>Brachiaria</u> spp.	(Green & Yellow)	Functurevine
Bullnettle	Goosegrass	Ragweed
Chickweed	Johnsongrass	Sandbur
Cocklebur*	Morningglory	Watergrass
Crabgrass		Wood Sorrel
(Smooth & Large)		

*Arsenical resistant varieties may not be controlled.

See Golf Course and Turf Uses for weeds controlled at those sites.

MIXING INSTRUCTIONS: Fill the spray tank with half the required amount of water and, with pump or agitator operating, add the recommended amount of this product and continue filling the tank with the balance of water and mix thoroughly.

DO NOT store spray solution in tank overnight. Clean application equipment thoroughly after use by flushing with water in a safe place.

APPLICATION METHODS: This product should be applied with a low-volume, low-pressure, properly calibrated sprayer having satisfactory pumping and bypass action. For ground directed spray applications adjust nozzles in a manner to allow maximum coverage of weeds (and in a manner to keep spray off Cotton foliage). **DO NOT** apply with hose-end applicators. This product is somewhat corrosive to certain metals therefore use in galvanized steel or aluminum equipment is not recommended.

For aerial application with fixed-wing aircraft or helicopter application, an exactly even swath deposition cannot be achieved, and consequently crop injury or pesticide nonperformance may result wholly or in part. Do not apply by air during periods of thermal inversion.

Apply during warm weather when weeds are in an active stage of growth.

Adequate coverage is very important for effective weed control.

DIRECTIONS

COTTON:

This product is useful for the control of weeds listed above and many similar weeds. Application can be made

- 1) Preplant or postplant up to cracking of soil before cotton emergence using ground or aircraft equipment;
- 2) Postemergent, over the top, when cotton is 3 to 6 inches high or up to early first square stage, whichever occurs first using ground or aircraft equipment;
- 3) Postemergent as a directed spray with ground equipment when cotton is 3 inches high to first bloom.

1) PREPLANT OR POSTPLANT UP TO CRACKING APPLICATION ON COTTON: A single ground or aircraft application of this product can be made to prepared cotton seedbeds when planting has been delayed and weeds have emerged, or as a postplant treatment, BUT NO LATER THAN INITIAL CRACKING of soil in field before emergence of cotton. Planting of cotton may immediately follow the preplant application. Mix at the rate of 2 2/3 pints of this product in 40 gallons of water for ground equipment or in 5 to 10 gallons of water for aircraft application, and apply using a properly calibrated sprayer to one acre. See SPECIAL PRECAUTIONS below.

2) POSTEMERGENT APPLICATION ON COTTON USING GROUND OR AIRCRAFT EQUIPMENT AS AN OVER-THE-TOP BROADCAST SPRAY when cotton is 3 inches high until early first square stage as a salvage operation. Mix at the rate of 1 to 1 1/4 pints of this product in 40 gallons of water for ground equipment or in 5 to 10 gallons of water for aircraft application and apply using a properly calibrated sprayer to one acre. A second or repeat application, if needed, should be timed 1 to 3 weeks after the first application. APPLY ONLY AS A SALVAGE OPERATION. APPLY ONLY TO HEALTHY, RAPIDLY GROWING COTTON, 3 INCHES HIGH, BUT NO LATER THAN 6 INCHES HIGH OR EARLY SQUARE, WHICH EVER OCCURS FIRST. PREFERENCE SHOULD BE GIVEN TO DIRECTED SPRAYS. IN ORDER TO MINIMIZE INJURY, THE SECOND APPLICATION SHOULD BE MADE AS A DIRECTED SPRAY WHEN POSSIBLE. DO NOT make more than two (2) applications total of either DSMA or MSMA (or a combination) per season.

3) POSTEMERGENT DIRECTED SPRAY APPLICATION ON COTTON when weeds are small using ground equipment. Mix this product at the rate of 2 2/3 pints in 40 gallons of water per acre. For band applications, apply 1 gallon of above diluted spray per acre for each 1 inch band width to be treated of cotton grown on 40 inch row spacing. A second or repeat application, if needed, should be timed about 1 to 3 weeks after the first application. Keep spray off cotton foliage. APPLY ONLY WHEN COTTON IS 3 INCHES HIGH TO FIRST BLOOM. DO NOT APPLY AFTER FIRST BLOOM.

Slight burning and reddish discoloration of cotton foliage may occasionally be seen following recommended treatment; however, cotton plants will develop normally.

SPECIAL PRECAUTIONS - DO NOT allow spray or spray drift to contact adjacent crops or injury will result. Apply only on still days when weather conditions DO NOT favor drift from areas being treated.

Aircraft applications of this product should only be made by applicators experienced in use of herbicides, and application should be made in accordance with State and Federal regulations.

NOTE: Applications to cotton in Florida should be confined to band treatments.

NON-BEARING FRUIT AND NUTS:

This product is effective as a directed postemergence spray for control of the above listed weeds in non-bearing almond and walnut orchards and plantings of non-bearing apples, apricots, cherries, peaches, pears, plums and prunes. Mix at a rate of 2 2/3 pints of this product in 50 to 100 gallons of water, as needed for thorough coverage, and apply to an area of one acre. For spot treatment of weeds, mix 2 2/3 pints of this product in 50 gallons of water and apply to point of run-off. Application should be made when weeds are small, during warm weather and when conditions are favorable for good weed growth. If regrowth occurs, repeat applications should be made, but not more than three applications per year. DO NOT allow spray solution to contact foliage, stems or bark of trees or vines. DO NOT use around trees or vines from which crops will be harvested within one year. DO NOT GRAZE TREATED AREAS. In Florida, use only as a spot treatment.

CITRUS, BEARING AND NON-BEARING:

This herbicide is useful as a directed application in citrus orchards, such as orange, grapefruit, tangerine, lemon and lime orchards. It should be applied at the rate of 2 2/3 to 5 1/3 pints per acre. Mix at the rate of 2 2/3 pints in 50 gallons of water. Apply as a directed spray in interspaces and around base of trees. Spray unwanted vegetation to just short of run-off. If regrowth occurs, reapply as required; however, DO NOT exceed 3 applications per year. DO NOT allow spray solution to contact fruit, leaves, stems or bark. Use a shield, if necessary, for nursery plantings or young trees. In Florida, use only as a spot treatment.

BLUEGRASS, FESCUE, & RYEGRASS GROWN FOR SEED (Pacific Northwest):

For control of wild oats and certain other broadleaf and grassy weeds, apply 6 to 8 pts. this product per acre in sufficient water for good coverage. Application can be made anytime after weeds emerge and before grass has reached boot stage. Use on grasses grown for seed only. DO NOT USE MORE THAN ONE APPLICATION PER YEAR. DO NOT APPLY AFTER BOOT STAGE. DO NOT GRAZE TREATED CROP OR ALLOW HAY, SEEDS OR SEED SCREENINGS FROM TREATED CROP TO BE USED FOR FOOD OR FEED.

GOLF COURSE AND ORNAMENTAL TURFGRASS:

This product can be used for selective control of Bahiagrass, Barnyardgrass, Chickweed, Smooth and Large Crabgrass, Dallisgrass, Nutsedge, Sandbur, and Wood Sorrel with little or no injury to well established, actively growing turfgrasses. Mow turfgrass to a height of 1 to 1 1/2 inches before treatment. On new lawns, do not treat until after three mowings. Mix at a rate of 2 1/2 to 2 2/3 pints in 40 to 100 gallons of water for application to one acre. For small areas, mix 1 fluid ounce (2 tablespoons) in 5 gallons of water for application to an area of 1,000 sq. ft. On established Bermuda and Zoysiagrass, up to 2 fluid ounces in 5 gallons of water per 1,000 sq. ft. may be used. Application should be uniform and thorough to

adequately wet all undesirable plants.

Two or more repeat treatments at 14-day intervals may be necessary. Make applications during warm weather when temperature is between 80 and 90 F. DO NOT water turf for at least 24 hours after application. Turfgrasses may be temporarily discolored. Bermudagrass, Bluegrass and Zoysiagrass have shown tolerance to properly applied MSMA. Injury may result if applied to Bentgrasses and Fescues. DO NOT apply to St. Augustinegrass, Carpetgrass, Centipedegrass, or to Dichondra lawns. DO NOT reseed until 2 weeks after last application.

FORESTRY:

GENERAL INFORMATION ON TREE CONTROL

This product is designed for crown kill of undesirable trees through spaced-cut injection methods. It is useful for the control of the following Conifers: Cedar, Douglas fir, Grand fir, Lodgepole pine, Ponderosa pine, Jack pine, Red pine, Silver fir, and Western hemlock. It is also useful for the control of Big leaf maple, but not most hardwoods. It shows negligible translocation through root grafts and has no residual phytotoxic action in the soil. Forked trees require individual treatment.

CARE OF EQUIPMENT: This product is entirely soluble in water. Rinse all injection equipment thoroughly after use.

USE INSTRUCTIONS:

SPACED-CUT INJECTION WITH ANSUL "HYFO-HATCHET" INJECTOR: The Ansul HYFO-HATCHET Injector cuts and injects in one operation. When a tree is struck with the injector, a pre-set amount of this product is injected automatically into the sapstream of the tree immediately after impact. The injector works by inertia and is designed to inject at least 1 milliliter of chemical per stroke. The cuts should be evenly spaced around the trunk to give proper distribution into the sapwood. For detailed instructions on how to use the Ansul HYFO-HATCHET Injector, refer to the Operation Manual.

CONIFERS (See General Information on Tree Control) **AND BIG LEAF MAPLE** (Growing Season)-- For trees less than 8 inches diameter at waist height (DBH), make one cut per 2 inches of DBH (4 1/2" spacing between cut edges) at waist height or below. For trees 8 inches and larger, make one cut per 1 inch DBH (1 1/2" SPACING BETWEEN CUT EDGES).

CONIFERS (Dormant Season)--Make one cut per 1 inch of DBH (1 1/2" spacing between cut edges) at waist height or below.

BIG LEAF MAPLE (Dormant Season)--Make a complete frill at waist height or below (cuts need not be overlapping).

SPACED-CUT AFFLICATION: Although spaced-cut application is facilitated by use of the Ansul HYFO-HATCHET Injector, a hatchet or similar cutting tool can be used to make horizontal frills. The number of cuts per tree depends upon the size of the cuts and the volume to be injected, but in any case, should be sufficient to hold the herbicide without running down the trunk. Make certain that each cut penetrates into the sapwood. Large trees with full crowns require almost overlapping frills to effect control. Apply this product with a pump-type oil can, plastic squeeze bottle, or other suitable dispenser.

CONIFERS (See General Information on Tree Control) **AND BIG LEAF MAPLE** (Growing Season)--For trees less than 8 inches diameter breast height (DBH), apply 1 to 2 milliliters of this product per cut per 2 inches of DBH (6" spacing between cut centerlines) at waist height or below.

For trees 8 inches DBH and larger, use 1 to 2 milliliters per cut per 1 inch DBH (3" spacing between centerlines).

CONIFERS (Dormant Season)--Apply 1 to 2 milliliters of this product per cut per 1 inch of DBH (3" spacing between cut centerlines).

BIG LEAF MAPLE (Dormant Season)--Apply 1 to 2 milliliters of this product per cut in a complete frill at waist height or below. (Cuts need not be overlapping.)

1 fluid ounce = 29.57 milliliters

1 gallon = 3785 milliliters

NON-CROP

This product is effective in control of the above listed weeds and many similar weeds on drainage ditch banks, rights-of-way (including highway, railroad, pipeline and utility), fence rows, golf course sand traps, storage yards and many similar non-crop areas. Application should be made when weeds are small and conditions are favorable for good weed growth. Mix at a rate of 2 1/2 to 6 pints of this product in 40 to 50 gallons of water for application to one acre. Use higher rates and spray volume for dense weed growth. For small areas, use 1 to 2 fluid ounces in 5 gallons water per 1,000 sq. ft. Spray undesirable vegetation thoroughly to point of runoff. Adequate coverage, and complete wetting of foliage is important for effective control. Repeat applications may be necessary if regrowth occurs. Use only as spot treatment in Florida.

NOTICE OF WARRANTY

Platte warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the 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 Platte. In no case shall Platte be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Platte makes no warranties of Merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

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