

HELENA BRAND

MSMA PLUS H.C.

For Selective Post-Emergent Weed Control

HIGH CONCENTRATE

C A U T I O N : KEEP OUT OF REACH OF CHILDREN.
See side panel for additional precautions.

MSMA Liquid Plus Surfactant

This product contains 6.0 lbs. MSMA per gallon.

ACTIVE INGREDIENTS:

Monosodium Acid Methanearsonate 48.4%

INERT INGREDIENTS: 51.6%

TOTAL 100.0%

Total Arsenic (as elemental) all in water
soluble form 22.4%

July 16, 1974

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590-164

MANUFACTURED BY
HELENA CHEMICAL COMPANY
MEMPHIS, TENNESSEE

(6)

C A U T I O N

READ ENTIRE LABEL BEFORE USING THIS PRODUCT.

Keep out of the reach of children. Harmful if swallowed. Avoid contact with skin. Avoid breathing spray mist. Wash hands after using. Avoid storage near feed or food products. Keep children and domestic animals off treated areas until this material has been washed into the soil.

ANTIDOTE: If taken internally, induce vomiting and call physician at once.

Do not feed treated foliage to livestock or graze treated areas. Do not contaminate waters used for domestic consumption, or by animals, wildlife and aquatic life, or for irrigation purposes.

GENERAL INFORMATION

MSMA Plus H.C. is useful for selective post-emergent weed control, particularly for grassy weeds. Its phytotoxic properties are quickly inactivated on contact with soil. It is a combination of herbicide and surfactant. It is unnecessary to add any other surfactant to the spray solution. Best results are obtained on young, actively growing weeds at air temperatures above 70°F.

MIXING INSTRUCTIONS

MSMA Plus H.C. is completely water soluble. Fill the spray equipment tank about half full with water and add the required amount of herbicide with agitation. Finish filling the tank with water and apply. After use, clean equipment thoroughly by flushing with water. Do not store spray solution in tank for a prolonged period.

CONTAINER DISPOSAL: Do not reuse empty container. Wash thoroughly with water and detergent, crush if possible, and discard in a safe place.

DIRECTIONS FOR USE

COTTON: MSMA Plus H.C. is useful as a directed application in cotton for post-emergent control of weeds and grasses, such as johnsongrass, nutsedge, dallisgrass, cocklebur, barnyardgrass, ragweed, sandbur and puncture vine. It should be applied at the rate of 1/3 gallons per acre.

Mix 3 quarts of MSMA Plus H.C. in 90 gallons of water. Do not add any surfactant to the spray solution. Apply spray solution at 40 gallons per acre. Weed control is most effective at temperatures above 70°F. For band application in 40 inch rows, apply 1 gallon of spray solution per inch of band width per acre.

Directed Application: Direct the spray solution to the base of the cotton plant. Nozzles should be placed so as to avoid spraying the cotton foliage, but to give good coverage of the weeds and grasses. If regrowth occurs, make a second application about 1 to 3 weeks after the first. Slight burning and a reddish discoloration of the cotton leaf may occasionally occur following directed application, but the cotton plant will develop normally. Make directed applications only when cotton is 3 inches high to first bloom. Do not apply after first bloom.

Preplant Application: If planting of cotton has been delayed and weeds have emerged, use one preplant application. Cotton may be planted immediately following the preplant application.

BEARING CITRUS (Except Florida): MSMA Plus H.C. 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 1/3 to 2/3 gallons per acre.

Mix MSMA Plus H.C. at the rate of 1/3 gallon 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 2 applications per year. Do not allow spray solution to contact fruit, leaves, stems or bark. Use a shield, if necessary, for nursery planting or young trees.

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ORCHARD GENERAL PLANTINGS: MSMA Plus H.C. is useful as a directed application in non-bearing vineyards and in non-bearing deciduous fruit, nut and citrus orchards, such as apple, peach, pear, plum, prune, apricot, cherry, almond, walnut, orange, mandarin, tangerine, lemon and lime orchards. It should be applied at the rate of 1/3 to 2/3 gallons per acre.

Mix MSMA Plus H.C. at the rate of 1/3 gallon in 50 gallons of water. Apply as a directed spray in interspaces and around base of trees or vines. 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 leaves, stems or bark. Use a shield if necessary, for nursery plantings or young trees. Do not apply around trees or vines from which fruit is harvested within one year of treatment. MSMA Plus H.C. is useful for control of johnson-grass, ragweed, cocklebur, sandbur, puncture vine and other weeds on drainage ditchbanks, rights-of-way, storage yards, and similar non-crop areas.

Mix MSMA Plus H.C. at a rate of 6 to 12 pints in 100 gallons of water. Spray unwanted vegetation at a rate of about 50 gallons spray solution per acre. Use spray equipment that gives good low volume coverage. If regrowth occurs, reapply as required.

LAWN AND ORNAMENTAL TURF: MSMA Plus H.C. is useful for control of dallisgrass, sandbur, bahiagrass, nutgrass, barnyardgrass, crabgrass, chickweed and wood sorrel with little or no injury to tolerant lawn grasses. On new lawns, do not treat until after three mowings. Tolerant grasses may be temporarily discolored. Zoysia, bluegrasses and bermuda are quite tolerant. Do not use on St. Augustine or centipede. Mow lawns 1 to 1 1/2 inches high before treatment.

Mix 1 1/3 fluid ounces (8 teaspoons) of MSMA Plus H.C. in 2 1/2 gallons of water and apply to an area of 1,000 sq. ft. Spray thoroughly to wet all undesirable plants. Repeat applications, 10 to 14 days apart, may be needed for good control.

WARRANTY AND LIMITATION OF DAMAGES. Helena Chemical Company warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale, subject to the inherent risks referred to therein. Helena Chemical Company makes no other express or implied warranty, including any other express or implied warranty of MERCHANTABILITY, and no agent of Helena Chemical Company is authorized to do so except in writing with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or value, etc.

SEE CONTAINERS: _____ Lot No. _____