

APR 8 1993

Elizabeth D. Owens, Ph.D.
ISK Biotech Corporation
P.O. Box 8000
Mentor, OH 44061-8000

Dear Dr. Owens:

Subject: Amended Labeling - Adding New Uses
DSMA 4
EPA Registration Number 50534-158 ✓
Your Submission Dated March 25, 1993

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) or 4(a) when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. Modify the Environmental Hazards Section to include the following statements:

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters.

b. Add the statement "Do not feed treated foliage to livestock or graze treated areas" and position it so it is clear that it applies to both over-the-top and directed application to cotton.

c. After "surfactant" in the directions for use specify:

(cleared for application to growing crops)

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-2-

3. Submit one (1) copy of your final printed labeling before you release the product for shipment. 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,

Cynthia Giles-Parker
Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

Jacket
3 of 5

Net Contents

ISK-BIOTECH™

DSMA 4

DSMA

For Postemergence Weed Control in Cotton, Turf and Non-Crop Areas
Contains No Surfactant

Antidote

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.

Active ingredient: Disodium Methaneearsonate.....	24.07%
Inert ingredients:.....	75.93%
Total:.....	100.00%
Total Arsenic all in water-soluble form, expressed as elemental.....	9.84%

Product contains 4 pounds Disodium Methaneearsonate Hexahydrate equivalent per gallon.

Read entire label before using this product.

Notice: Use of this material in a manner, or at any time other than in accordance with the directions, may produce plant injury, excessive residues, or other undesirable results.

Keep Out of Reach of Children

CAUTION

■ See side panel for additional
■ precautionary statements

ACCEPTED
with COMMENTS
In EPA Letter Dated:

APR 8, 1993

under the Federal Insecticide
and Rodenticide Act
used, for the pesticide
registered under EPA Reg. No.

50534-158

ISK Biotech Corporation
5966 Heisley Road
P.O. Box 8000
Mentor, Ohio 44061-8000

EPA Reg. No. 50534-158
2410-0000-9120-9103

we-100 = 4779-126

4 of 5

Directions for Use

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

Do not apply this product through any type of irrigation equipment.

Cotton: DSMA 4 is useful as a directed postemergence spray for controlling weeds in cotton such as barnyardgrass, cocklebur, smooth and large crabgrass, dallisgrass, goosegrass, johnsongrass and nutsedge.

PREPLANT OR POSTPLANT UP TO CRACKING APPLICATION ON COTTON: A single ground or aircraft application of DSMA 4 can be made to prepared cotton seedbeds when planting has been delayed and weeds have emerged, or as a post-plant treatment, but no later than initial cracking of soil in field before emergence of cotton.

Planting of cotton may immediately follow the preplant application. For ground application, mix at a rate of 7 pints of DSMA 4 and 1 quart of a nonionic surfactant in 40 gallons of water for broadcast ground application or in 5 to 10 gallons of water for aircraft application and apply to one acre using a calibrated sprayer.

POSTEMERGENT, OVER-THE-TOP APPLICATION ON COTTON: A single ground or aircraft application may be made as an over-the-top broadcast spray to actively growing cotton as a salvage operation when cotton is 3 to 6 inches high or up to early first square stage, whichever occurs first. For ground application, mix DSMA 4 at a rate of 3 to 4 pints in 40 gallons of water plus 1 to 2 pints of a nonionic surfactant, approved for use on growing crops, and apply to one acre using a properly calibrated sprayer. For aerial application, mix DSMA 4 at a rate of 3 to 4 pints in 5 to 10 gallons of water plus 1/2 pint of a nonionic surfactant, approved for use on growing crops and apply to one acre using a properly calibrated sprayer. Apply as an over-the-top broadcast spray only when cotton is 3 to 6 inches high or up to early first square stage, whichever occurs first.

Do not apply as an over-the-top broadcast spray after cotton is more than 6 inches high or after early first square stage.

Slight burning and reddish discoloration of cotton foliage may occasionally be seen following recommended treatment.

DIRECTED APPLICATION:

Mix 9 quarts of DSMA 4 and 1 to 2 quarts of a nonionic surfactant, approved for use on growing crops, in 100 gallons of water. Apply the solution as a directed spray at rate of 40 gallons per acre when weeds are small. 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 and yield will not be affected.

Ornamental Turfgrass: DSMA 4 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 height of 1 to 1 1/2 inches before treatment. Mix 3 fluid ounces (6 tablespoons) of DSMA 4 plus 1 ounce of a nonionic surfactant in 2 1/2 gallons of water for application to an area of 1,000 square feet. 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, bluegrasses and zoysiagrass have shown tolerance to properly applied DSMA 4. Injury may result if applied to bentgrasses and fescues. Do not apply to St. Augustinegrass, carpetgrass, centipedegrass or to Dichondra. Do not reseed until 2 weeks after last application. Do not apply with hose-end applicators.

Agricultural Plantings: DSMA 4 is useful as

a directed application in non-bearing vineyards and in non-bearing deciduous fruit, nut, and citrus orchards such as almond, apple, apricot, cherry, grapefruit, lemon, lime, orange, peach, pear, plum, prune and tangerine orchards. It should be applied at the rate of 3 1/2 to 6 1/2 quarts per acre.

Mix DSMA 4 at the rate of 3 1/2 quarts plus 1 quart of a nonionic surfactant in 50 gallons of water. Apply as a directed spray in interspaces and around bases 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 will be harvested within one year of treatment.

Non-Crop: DSMA 4 is effective in controlling barnyard grass, cocklebur, smooth and large crabgrass, dallisgrass, goosegrass, johnsongrass, nutsedge and may similar weeds on drainage ditchbanks, fence rows, rights-of-way, storage yards and 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 1 gallon of DSMA 4 plus 1 quart of a nonionic surfactant in 40 gallons of water. Spray undesirable vegetation thoroughly to point of run-off. Adequate coverage and complete wetting of foliage is important for effective control. Repeat applications may be necessary if regrowth occurs. Do not contaminate waters used for domestic purposes, or by animals including wildlife and aquatic life, or water used for irrigation purposes.

Classified by 4779-126

Do not add to label before to be used in case treated use

Precautionary Statements Hazards to Humans and Domestic Animals

Caution

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

Environmental Hazards

Do not feed treated foliage to livestock or graze treated areas.

Do not spray or allow drift onto vegetables, ornamentals 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.

Avoid storage near food and feed products.

EPA EST. NO. |

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

Container Refilling and Cleaning: This is a returnable dedicated container to be refilled only with ISK Biotech's Methanebionate products, by an authorized Repackager. Return this container to the Repackager from which it was purchased for refilling. If the seals are intact, do not rinse this container between refills. If the seals are not intact, or, other evidence exists that tampering may have occurred, triple rinse (or equivalent) before returning container to authorized Repackager. Add rinseate to the spray tank as make-up water for normal spray dilution of concentrate product.

Warranty and Limitation of Damages

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. Seller makes no other express or implied warranty, including any other express or implied warranty of Fitness or of Merchantability, and no agent of Seller is authorized to do so.

In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.