

APR 22 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  
Liquid DSMA  
EPA Registration Number 50534-186  
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. Modify the position and format of "Do not feed treated foliage to livestock or graze treated areas" so it is clear that it applies to both over-the-top and directed application to cotton.

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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

Net Contents

50534-186  
EPA Reg. No. 50534-186  
EPA Est. No. 50534-TX-01

**ISK BIOTECH™**

# Liquid DSMA

**DSMA Liquid Plus Surfactant**

Active ingredient: Disodium Methearsonate .....	21.8%
Inert ingredients: .....	78.2%
Total: .....	100.0%
Total Arsenic (as elemental) all in water-soluble form .....	8.9%

This product contains the equivalent of 3.6 pounds Disodium Methearsonate Hexahydrate per gallon.

**Keep Out of Reach of Children**

**CAUTION:** See side panels for additional  
precautionary statements

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Harmful if swallowed, avoid breathing spray mist. May cause irritation of nose, throat and skin. Avoid contact with eyes, skin and clothing. Do not contaminate feed and food stuffs. Keep children and domestic animals off treated areas until this material has been washed into the soil.

### Statement of Practical Treatment

**If swallowed:** Call a physician or Poison Control Center. 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 Splashed in Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation develops.

**If Spilled on Skin:** Immediately remove contaminated clothing, INCLUDING SHOES, and wash skin with soap and plenty of water. If irritation develops, send for a physician.

### Environmental Hazards

Do not apply directly to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

Do not spray or allow drift onto vegetables, ornamentals or other desirable plants. Do not apply when weather conditions favor drift from target area.

### Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

**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:** 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.

Herbicide must be thoroughly dissolved. Best results are obtained on young, actively growing weeds at air temperatures above 70°F.

### Mixing Instructions

DSMA LIQUID Herbicide must be thoroughly dissolved. Fill the spray equipment reservoir about half full with water and add the required amount of herbicide with agitation. Finish filling the reservoir with water and apply. After use, clean equipment thoroughly by flushing with water. Do not store spray solution in tank for prolonged period.

### 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.

## 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.

**Protective Clothing Required:** Wear protective clothing when handling or applying this product including long pants, long-sleeve 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.

**Cotton:** Liquid DSMA 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 Liquid DSMA 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. Mix at a rate of 1 gallon of Liquid DSMA 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 properly 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. Mix Liquid DSMA at a rate of 3 to 4 pints in 40 gallons of water for ground application, or in 5 to 10 gallons of water for aircraft application 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:

Apply as a directed spray at rate of 40 gallons per acre of a solution containing 1 gallon of Liquid DSMA in 40 gallons of water 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. Do not feed treated foliage to livestock or graze treated areas.

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:** Liquid DSMA 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 Liquid DSMA 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 Liquid DSMA. 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:** Liquid DSMA 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 7 quarts per acre.

Mix Liquid DSMA at the rate of 3 1/2 quarts to 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:** Liquid DSMA is useful for controlling johnsongrass, nutsedge, watergrass and other weeds on drainage ditchbanks, rights-of-way, storage yards and similar non-crop areas. Mix at a rate of 1 to 2 gallons of Liquid DSMA in 100 gallons of water. No additional surfactant is necessary. Spray the unwanted vegetation thoroughly to just short of run-off. Any spray equipment that gives good coverage may be used. If regrowth occurs, reapply as required.

Do not contaminate waters used for domestic purposes, or by animals including wildlife and aquatic life, or for irrigation purposes.

*See applicator  
well cotton*

*Me-two =  
4779-126*