



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUL 19 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Elizabeth D. Owens, Ph.D.
Manager, Product Registrations
ISK Biosciences Corporation
5966 Heisley Road
P.O. Box 8000
Mentor, Ohio 44061-8000

Dear Dr. Owens:

Subject: Bueno - EPA Reg. No. 50534-18
DSMA Liquid - EPA Reg. No. 50534-27
Super Arsonate - EPA Reg. No. 50534-31
Ansar 529 H.C. - EPA Reg. No. 50534-41
Ansar DSMA Liquid - EPA Reg. No. 50534-42
Ansar 8100 Herbicide - EPA Reg. No. 50534-46
Ansar 529 H.C. (Southern Formula) EPA Reg. No. 50534-53
DSMA 4 - EPA Reg. No. 50534-158
Liquid DSMA - EPA Reg. No. 50534-186
Label Revisions - PPE Statements
Your Applications Dated 6/22/94

The labeling for EPA Reg. Nos. 50534-18, -31, -41, and -53, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Submit five (5) copies of your finished printed labeling.

The labeling for EPA Reg. Nos. 50534-27, -42, -46, -53, -158, and -186, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted prior to releasing the product for shipment.

For EPA Reg. Nos. 50534-42, and -46 revise the first sentence under **ENVIRONMENTAL HAZARDS** to read, "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mar,. Do not contaminate water by disposal of equipment washwaters."

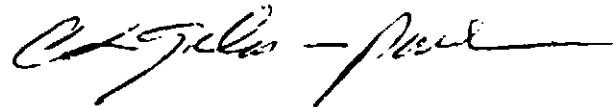
For EPA Reg. Nos. 50534-27 and -158 under **Container Refilling and Cleaning**, in the first sentence replace "Biotech's" with "Biosciences'".



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

For EPA Reg. No. 50534-186, under **Statement of Practical Treatment**, delete "Immediately remove contaminated clothing, INCLUDING SHOES, and" from the **If Spilled on Skin** instruction.

Sincerely Yours,



Cynthia Giles-Parker
Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosures

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Liquid DSMA

Net Contents:

DSMA Liquid Plus Surfactant

Active Ingredient: Disodium Methanearsonate	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 Methanearsonate Hexahydrate per gallon.

Keep Out of Reach of Children

CAUTION:

See side panel for additional precautionary statements

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

ACCEPTED
with COMMENTS
In EPA Letter Dated:

JUL 19 1991

Under the Federal Insecticide
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

50534-186

Precautionary Statements
Hazards to Humans and Domestic Animals

CAUTION

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.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- * Long-sleeved shirt and long pants
- * Waterproof gloves
- * Chemical-resistant footwear Shoes plus socks
- * Protective eyewear
- * Chemical-resistant apron when cleaning equipment, mixing or loading

For exposures in enclosed areas:

- * A respirator with either an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

For exposure outdoors:

- * Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Follow manufacturer's instructions for cleaning maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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User Safety Recommendations:

Users should:

- * Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- * Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- * Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 water, or 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.

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.

Liquid DSMA

Read entire label before using this product.

General Information

LIQUID DSMA HERBICIDE is useful for selective post-emergent weed control, particularly for grassy weeds. 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

LIQUID DSMA 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 a 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.

Buyers and users of this product are responsible for all loss or damage from use or handling of this product which results from conditions beyond the control of Seller, including, but not limited to, incompatibility with other products unless otherwise expressly provided in the Directions for Use of this product, weather conditions, cultural practices, moisture conditions or other environmental conditions outside of the ranges that are generally recognized as being conducive to good agricultural and/or horticultural practices.

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 in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- * Coveralls
- * Waterproof gloves
- * ~~Chemical-resistant footwear~~ Shoes plus socks
- * Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and domestic animals off treated areas until this material has been washed into the soil.

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

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.

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.

Directed Application:

Apply as a directed spray at a 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 bentgrass 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.