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JUL 15 1994

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'".

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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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Ansar® 529 H.C.

Net Contents

Herbicide

High Concentrate

MSMA Liquid Plus Surfactant For Selective Post-Emergent Weed Control

Active Ingredient: Monosodium Acid Methanearsonate 48.3%

Inert Ingredients: 51.7%

Total: 100.0%

Total Arsenic, all in water-soluble form, expressed as elemental 22.3%
Product Contains 6.0 Pounds MSMA Per Gallon

Keep Out of Reach of Children

CAUTION: See side panel for additional precautionary statements.

ISK Biosciences Corporation

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EPA Reg. No. 50534-41

EPA Est. No. 50534-TX-01

3070-0000-0000-9308

ANSAR® is a registered trademark of ISK Biosciences Corporation.

ACCEPTED
with COMMENTS
In EPA Letter Dated:

JUL 19

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

50534-41

Precautionary Statements

Hazards to Humans and Domestic Animals

Caution

Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin or clothing. Avoid breathing vapors or spray mist.

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. NEVER give anything by mouth to an unconscious person. Seek medical attention.

In case of contact, flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

Wash exposed skin gently with plenty of soap and water.

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.

Environmental Hazards

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.

) 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 contaminate water by cleaning of equipment or disposal of wastes.

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 on site or at an approved waste disposal facility.

Container Disposal: DO NOT reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

) **ANSAR 529 H.C. HERBICIDE**

Read entire label before using this product.

General Information

ANSAR 529 H.C. HERBICIDE 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.

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Mixing Instructions

ANSAR 529 H.C. HERBICIDE 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 prolonged period. Although ANSAR 529 H.C. HERBICIDE is only moderately corrosive, DO NOT use in galvanized or aluminum equipment.

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.

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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



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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.

Cotton: ANSAR 529 H.C. HERBICIDE is useful as a preplant and/or directed application in cotton for post-emergent control of weeds and grasses, such as johnsongrass, nutsedge, dallisgrass, cocklebur, ragweed, sandbur and puncturevine. It should be applied at the rate of 1/3 gallon per acre. Mix 3 quarts of ANSAR 529 H.C. HERBICIDE in 90 gallons of water. DO NOT add any surfactant to the spray solution. Apply spray solution at 40 gallons per treated 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 to cotton.

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.

Post-Emergent Application: In cotton previously treated with one application of ANSAR 8100 a directed application of ANSAR 529 H.C. may be applied, if needed.

In cotton not treated with ANSAR 8100, two post-emergent directed applications of ANSAR 529 H.C. may be applied.

Directed Applications: 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 inch high to first bloom. DO NOT apply after first bloom.

Citrus-Bearing and Non-Bearing (Except Florida): ANSAR 529 H.C. 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 1/3 to 2/3 gallons per acre. Mix ANSAR 529 H.C. HERBICIDE 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 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.

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Agricultural Plantings: ANSAR 529 H.C. HERBICIDE is useful as a directed application in non-bearing vineyards, and in non-bearing deciduous fruit and nut orchards, such as apple, peach, pear, plum, prune, apricot, cherry, almond and walnut orchards. It should be applied at the rate of 1/3 to 2/3 gallons per acre.

Mix ANSAR 529 H.C. HERBICIDE 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 will be harvested within one year of treatment.

Non-Crop: ANSAR 529 H.C. HERBICIDE is useful for control of johnsongrass, nutsedge, dallisgrass, cocklebur, ragweed, sandbur, puncturevine and certain other weeds on drainage ditchbanks, rights-of-way, fence rows, storage yards and similar non-crop areas. Mix ANSAR 529 H.C. HERBICIDE at the rate of 6 to 12 pints in 100 gallons of water. Spray unwanted vegetation at a rate of about 50 gallons of spray solution per acre thoroughly to just short of run-off. Any spray equipment that gives good coverage may be used. Use spray equipment that gives good low volume coverage. If regrowth occurs, reapply as required. DO NOT contaminate waters used for domestic purposes, or by animals, including wildlife and aquatic life, or water used for irrigation purposes.

Lawn and Ornamental Turf: ANSAR 529 H.C. HERBICIDE is useful for control of dallisgrass, sandbur, Bahiagrass, nutsedge, 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 ANSAR 529 H.C. HERBICIDE 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. DO NOT apply with hose-end applicators.