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50534-16
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DEC 14 1983

Michael A. Peplowski
SDS Biotech Corporation
7528 Auburn Road
P.O. Box 348
Painesville, OH 44077

Dear Mr. Peplowski:

Subject: Methanearsonates
Arsonate Liquid
EPA Registration No. 50534-16
Your Submission of December 1, 1983

The amendment referred to above, submitted in connection with registration under FIFRA sec. ~~3(c)(7)(A)~~ is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. In the Non-crop Section, reinstate the following:

Do not contaminate waters used for domestic purposes, or by animals, including wildlife and aquatic life, or water used for irrigation purposes.
 - b. In the appropriate agriculture sections after surfactant specify:

Cleared for application to growing crops
 - c. The last accepted label for this product declares:

6.6 pounds MSMA per gallon
2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							

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A stamped copy of the label is enclosed for your records.

Sincerely yours,

Richard F. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767)

Enclosure

DCR-10814:Mountfort:12/9/83:del.12/24/83:RD-25:tar

ACCEPTED
with comments
4 1983
RHS

50534-16

Net Contents 55 Gallons/208 Liters



Arsonate Liquid

For Postemergence Weed Control
Product Contains 6.0 Pounds MSMA Per Gallon

Active Ingredient: Monosodium Acid Methanearsonate	51.0%
Inert Ingredients:	49.0%
Total:	100.0%
Total Arsenic, all in water-soluble form, expressed as elemental	23.8%

Keep Out of Reach of Children
CAUTION
See side panel for additional precautionary statements.

SDS Biotech Corporation
Agricultural Chemicals Business
Painesville, Ohio 44077

EPA Reg. No 50534-16 EPA Est No 50534 - TX-01

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.

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

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.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water. 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.

Arsonate Liquid

Read entire label before using this product.

General Information

Arsonate Liquid is a postemergence herbicide for use in cotton, turf and non-crop areas.

Arsonate Liquid does not contain a surfactant (wetting agent). A suitable non-ionic surfactant should be added to spray tank. Local conditions and recommendations vary; consult local agricultural experiment station or extension service weed specialists for recommendations in your area.

Mixing Instructions: **Arsonate Liquid** herbicide must be thoroughly dissolved. Fill the spray tank with half the required amount of water and, with pump or agitator operating, add the recommended amount of **Arsonate Liquid** herbicide and continue filling the tank with balance of water. Add surfactant and mix thoroughly before using.

Do not store spray solution in tank overnight. Clean application equipment thoroughly after use by flushing with water in a safe place.

Application Methods: **Arsonate Liquid** should be applied with a low-volume, properly calibrated sprayer having satisfactory pumping and bypass action. **Adjust Nozzles to Keep Spray Off Cotton Foliage and in a Manner to Allow Maximum Coverage of Weeds.** Adequate coverage is very important for effective weed control. Apply during warm weather when weeds are in an active stage of growth.

Directions For Use

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

Cotton: **Arsonate Liquid** is useful as a directed post-emergence spray for controlling weeds in cotton such as barnyardgrass, cocklebur, smooth and large crabgrass, dallisgrass, goosegrass, Johnsongrass and nutsedge. Apply as a **Directed** broadcast spray at rate of 40 gallons per acre of a solution containing 3 pints of **Arsonate Liquid** plus 1½ to 2 quarts of suitable surfactant in 50 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.

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: **Arsonate Liquid** 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 1½ inches before

treatment. Mix 1 fluid ounce (2 tablespoons) of **Arsonate Liquid** plus 2 to 3 fluid ounces of suitable surfactant in 5 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 **Arsonate Liquid**. 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.

Non-crop: **Arsonate Liquid** is effective in controlling barnyardgrass, cocklebur, smooth and large crabgrass, dallisgrass, goosegrass, Johnsongrass, nutsedge and many similar weeds on drainage ditch banks, 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 3 pints of **Arsonate Liquid** plus 1½ to 2 quarts of suitable surfactant in 50 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.

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 by other procedures approved by state and local authorities.

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 except in writing with a specific reference to this warranty.** 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.