

NET CONTENTS

GALLONS

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.

If preferred, ARSONATE LIQUID herbicide can be pre-mixed by dissolving the required amount of ARSONATE LIQUID in 3 to 5 gallons of water in a clean, open-head bucket. This pre-mix should then be poured in the partially filled spray tank and the tank filled 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

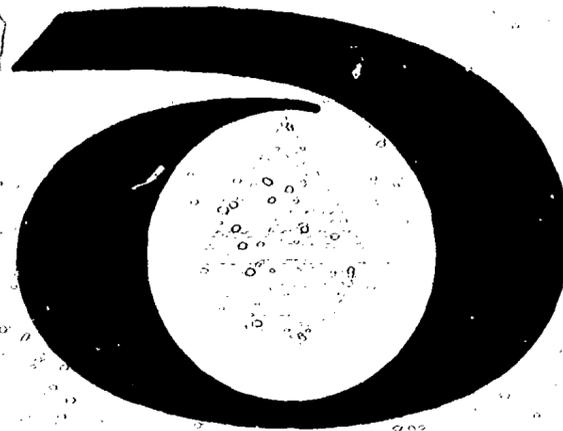
**COTTON:** ARSONATE LIQUID is useful for directed post-emergence spray for controlling weeds in cotton such as barnyardgrass, cocklebur, smooth and large crabgrass, dallisgrass, goosegrass, johnsongrass and nutsedge. Apply as a DIRECTED broadcast spray at rate of 40 gallons per acre of a solution containing 3 pints of ARSONATE LIQUID plus 1 1/2 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, sandbar 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 1 fluid ounce (2 table-

EPA REG. NO. 677-204-AA



**Diamond Shamrock  
Chemical Company**

ACCEPTED  
Sep 2, 1971  
UNDER THE FEDERAL INSECTICIDE  
FUNGICIDE AND RODENTICIDE ACT  
FOR ECONOMIC POISON REGISTER-  
ED UNDER NO. 677-204

**ARSONATE LIQUID**

For Postemergence Weed Control in Cotton, Turf and Non-Crop Areas

ACTIVE INGREDIENT:	
Monosodium Acid Methanesulfonate	51.0%
INERT INGREDIENTS:	49.0%
TOTAL	100.0%

Total Arsenic, all in water-soluble form,  
expressed as elemental . . . 23.61%  
Product contains 6.6 pounds MSMA per gallon

**CAUTION: KEEP OUT OF REACH OF CHILDREN.  
SEE SIDE PANEL FOR ADDITIONAL CAUTIONS.**

**AGRICULTURAL CHEMICALS DIVISION-CLEVELAND, OHIO 44115**

**DIAMOND SHAMROCK CORPORATION**

AG-173A

3196-A63C-1-571

spoons) 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.

**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 1 1/2 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.

CAUTION

Harmful if swallowed.  
Avoid contact with skin and eyes. In case of contact, flush eyes with plenty of water.  
Avoid breathing spray mist.  
Wash hands after using.  
Keep away from children and domestic animals and do not allow them on treated areas until material has been washed into soil.  
Avoid storage near food and feed products.

DO NOT feed treated forage to livestock or graze treated areas.  
DO NOT spray or allow drift onto vegetables, ornamentals or other desirable plants.  
DO NOT contaminate waters used for domestic purposes or by animals, including wildlife and aquatic life, or water used for irrigation purposes.  
DO NOT reuse empty container. Return to drum reconditioner, or destroy by perforating, crushing and burying or discarding in a safe place.

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.