

VERTAC

MSMA

400

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MSMA LIQUID PLUS SURFACTANT. FOR SELECTIVE POSTEMERGENT WEED CONTROL

ACTIVE INGREDIENTS

Monosodium acid methanearsonate 34.7%

INERT INGREDIENTS 65.3%

TOTAL 100.0%

Total Arsenic (as elemental) all in water soluble form 16.1%

(Contains 4.04 lbs. MSMA per gallon at 68°F.)

Use when temperature is at least 70°F.

EPA Registration No. 39511-102

EPA Establishment No. (See back panel)

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KEEP OUT OF REACH OF CHILDREN CAUTION

If Swallowed: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. Get medical attention.

If On Skin: Wash contaminated areas thoroughly with soap and water. Do not reuse contaminated clothing until washed. Get medical attention if irritation develops.

If In Eyes: Flush with copious amounts of clean water for 15 minutes. Get medical attention.

See back panel for additional precautionary statements.

PRECAUTIONARY STATEMENTS

CAUTION HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin, eyes, and clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation occurs. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate water used by wildlife or aquatic life or water used for domestic or irrigation purposes.

FOR CHEMICAL SPILL, LEAK, FIRE OR
EXPOSURE, CALL TOLL FREE:
1-800-429-9300

AGRICULTURAL CHEMICAL
DO NOT SHIP OR STORE WITH FOOD, FEEDS,
DRUGS, OR CLOTHING

Read Entire Label before using this product.

DIRECTIONS FOR USE

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

Wear protective clothing when handling or applying the 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 concentrated formulations. Hands should be fully protected during application. Use of mechanical flagmen and backwashers is prohibited. Do not use this product in a manner inconsistent with labeling. The Manufacturer, Vertac Chemical Corporation, and the National Institute for Occupational Safety and Health.

Do not enter treated areas without protective clothing and spray protection.

Be aware that this product may require the use of the label to enter, enter, or leave an area treated with this product. Consult your local Department of Agriculture for further information.

Written and oral warnings must be given to workers who are expected to enter a treated area or an area about to be treated with this product. Workers should not enter treated areas without protective clothing until spray has dried. Protective clothing must include long sleeves, pants, and a hood, impermeable boots, and gloves.

In case of a spill, exposed persons immediately go to an area where all contaminated clothing can be removed including shoes. Wash all exposed areas with soap and water. Do not use contaminated clothes until washed.

Written and oral warnings shall be given to workers who are expected to enter a treated area or an area about to be treated with this product. Written warnings must be given to the workers to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

1. Areas treated with MSMA 400 Herbicide for control of weeds should be marked with a spray line.

2. In the event of a dental exposure, immediately go to an area where all contaminated clothing including shoes can be removed. Thoroughly wash all exposed areas including hair with soap and water. Do not reuse contaminated clothing until washed.

GENERAL INFORMATION

MSMA 400 Herbicide is useful for selective postemergent weed control, particularly for grassy weeds in cotton and corn fields. Its phytotoxic properties are quickly inactivated on contact with soil. MSMA 400 Herbicide 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 temperature above 70°F.

MSMA 400 Herbicide applied properly will kill or control noxious weeds susceptible to MSMA such as:

Barnyardgrass	Johnsongrass
Barnyardgrass	Nutgrass
Brachiaria Sp.	Nutsedge
Chickweed	Rigweed
Cocklebur	Puncturevine
Crabgrass (small and large)	Sandbur
Dandelion	Watergrass
Florida green and yellow	Wood Sorrel
Goosegrass	

MIXING INSTRUCTIONS: MSMA 400 Herbicide must be thoroughly mixed. Fill the spray equipment reservoir about half full with water and add the required amount of herbicide and surfactant with agitation. Fill the rest of the reservoir with water. Agitate, then apply. After use, clean equipment thoroughly by flushing with water. Do not store spray solution for long periods.

DIRECTIONS FOR USE IN COTTON

MSMA 400 Herbicide is useful for control of emerged weeds and grasses such as those listed under **GENERAL INFORMATION** and many similar weeds in cotton. The addition of surfactant to MSMA 400 Herbicide is not necessary.

POSTEMERGENT-DIRECTED: Mix MSMA 400 Herbicide at a rate of 1 to 4 gallons of 40 gallons of water for application as a directed broadcast spray to weeds when weeds are small. For band application in 40 inch rows, apply 1 gallon of spray solution per inch of band width per acre. A second application may be required during humid growing conditions for control of weeds such as Johnsongrass and Nutsedge. Apply the second application 1 to 3 weeks later. Keep spray off cotton foliage. Apply only when cotton is 3 or 4 inches high to full bloom. Do not apply after first bloom. Nozzle should be adjusted to direct spray to weeds at a low angle to prevent drift of weeds with no contact to cotton foliage.

For Postemergent Directed Banded Applications

Band Width	Amount of MSMA 400 Per Acre	Gallons of Water Per Acre
12"	1.00	1.0
14"	1.12	1.1

Off-center fan type nozzles, 100 mesh screen at pressure, 15 inches from the ground with 25-pound force may be used. Do not apply after first bloom.

Slight burning and a reddish discoloration of the cotton leaf may occasionally occur following the recommended treatment, but the cotton plant will fully recover.

Do not apply when conditions favor drift from areas being treated as injury to non-target areas or adjacent crops may result. Do not feed treated foliage to livestock or graze treated areas.

NON-CROP USE

MSMA 400 Herbicide is useful for control of emerged weeds and grasses such as those listed under **GENERAL INFORMATION** and many similar weeds on drainage ditchbanks, fence rows, rights-of-ways, storage yards, and similar non-crop areas. Applications should be made when weeds are small and conditions are favorable for good weed growth.

Mix MSMA 400 at a rate of 9 to 16 pints in 100 gallons of water. Spray unwanted vegetation thoroughly at a rate of about 50 gallons of spray solution per acre. Use spray equipment that gives good low volume coverage. If re-growth occurs, reapply as required.

Do not feed treated foliage to livestock or graze treated areas.

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not store this product near fertilizers, insecticides, or fungicides. Do not store near heat or open flame. Freezing point of the product is below 40°F. If stored below freezing, warm to 60°F and agitate thoroughly before using. Containers should not be stacked more than six high. Re-use partially used containers by thoroughly tightening screw cap. Damaged or leaking containers which cannot be used immediately should be transferred to suitable closed container and properly marked. Absorb any spills with a suitable clay absorbent and dispose of as indicated under Pesticide Disposal.

For safety and prevention of unauthorized use, pesticides should be stored in locked facilities.

To prevent accidental misuse, different pesticides should be stored in separate areas with enough distance between to provide clear identification.

Opened, partially used pesticides should be stored in original labeled containers when possible. When transfer to another container is necessary because of leakage or damage, carefully mark and identify contents of the new container.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixture or residue is a violation of Federal law. If there are wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance.

CONTAINER DISPOSAL: Triple rinse for equipment, adding rinse to spray tank. Offer rinsed container for recycling or reconditioning, or purification and dispose of in a sanitary landfill or by incineration if permitted by state and local authorities. If burned, stay out of smoke.

CONDITIONS OF SALE AND WARRANTY: VERTAC AND SELLER OFFER THIS PRODUCT AND THE BUYER AND USER ACCEPTS THIS PRODUCT UNDER THE FOLLOWING AGREED CONDITIONS OF SALE AND WARRANTY.

The directions for use of this product are believed to be reliable and should be followed carefully. However, it is impossible to take into account all variables and to eliminate all risks associated with its use. Injury or damage may result because of conditions which are beyond control of Vertac or the Seller. Vertac warrants only that this product conforms to the chemical description on the label and is believed to be reasonably fit for the purposes referred to in the Directions for Use when used as directed under normal conditions. VERTAC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. In no case shall Vertac or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. Any variation or exception from this warranty must be in writing and signed by an authorized Vertac representative.

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