

RIVERSIDE 612 HERBICIDE

CONTAINS 4 POUNDS OF MSMA PER GALLON PLUS EFFECTIVE SURFACTANT.
USEFUL FOR SELECTIVE POST-EMERGENT CONTROL OF CERTAIN GRASSES AND BROADLEAVED WEEDS IN COTTON, IN LAWNS AND ORNAMENTAL TURF, IN CERTAIN AGRICULTURAL PLANTINGS, AND IN NON-CROP AREAS.

ACTIVE INGREDIENT:		
Monosodium Acid Methanearsonate*	35.5%	
INERT INGREDIENTS:	64.5%	
	TOTAL	100.0%
Total Arsenic (as elemental)		
all in water soluble form	16.4%	
*Product Contains 4.0 lbs. MSMA Per Gallon		

CAUTION: KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed. Avoid contact with skin. Avoid breathing spray mist. Wash hands after using. Do not store near feed or food products. Keep children and domestic animals off treated areas until this material has been washed into the soil.

ANTIDOTE: If taken internally induce vomiting and call a physician at once.

READ ENTIRE LABEL BEFORE USING THIS PRODUCT: Use of this product in a manner not in accordance with the information on this label may injure or kill humans, domestic animals, wildlife, aquatic life, desirable plants, create excessive and unlawful chemical residues, or produce other undesirable results.

GENERAL INFORMATION

RIVERSIDE 612 HERBICIDE is useful for selective post-emergent weed control, particularly for grassy weeds. It is a combination of herbicide and surfactants. 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.

DIRECTIONS FOR USE

COTTON: RIVERSIDE 612 HERBICIDE is useful as a directed spray application to weeds in cotton for post-emergent control of grasses and broadleaved weeds, including barnyardgrass, crabgrass, cocklebur, Dallisgrass, foxtail, goosegrass, Johnsongrass, morningglory, nutsedge, pigweed, puncture vine, ragweed, sandbur, and watergrass.

RIVERSIDE 612 HERBICIDE should be applied with a low volume sprayer having satisfactory pumping and bypass action. Nozzles should be placed so as to give good coverage of the grasses and weeds. Proper coverage is very important. Mix at a rate of 5 pints of RIVERSIDE 612 HERBICIDE in 50 gallons of water to form the spray solution. Apply at a broadcast rate of 40 gallons of this solution per acre.

PREPLANT APPLICATION: If planting of cotton has been delayed and weeds have emerged, use one preplant application. Apply the spray solution at a broadcast rate of 40 gallons per acre. Cotton may be planted immediately following the preplant application.

DIRECTED APPLICATION: 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. Apply the spray solution at a broadcast rate of 40 gallons per acre. For band application apply at a rate of 1 gallon of the spray solution per 1 inch of band width to be treated on cotton grown in 40 inch rows. A second application may be required during humid growing conditions. Time the second application, if necessary, about 1 to 3 weeks after the first application.

Slight burning and a reddish discoloration of the cotton leaves may occasionally occur following the recommended treatment but the cotton plant will develop normally.

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 FIELDS.

LAWN AND ORNAMENTAL TURF: RIVERSIDE 612 HERBICIDE is useful for the control of bahiagrass, barnyardgrass, chickweed, crabgrass, Dallisgrass, goosegrass, nutsedge, sandbur, and wood sorrel with little or no injury to good lawn grasses. On new lawns, do not treat until after three mowings. Good grasses may be temporarily discolored. Zoysia, bluegrasses, and bermuda are quite tolerant. Do not use on St. Augustine or centipede.

Mow lawns 1 to 1½ inches high before treatment. Mix 2 fluid ounces (4 table-spoons) of RIVERSIDE 612 HERBICIDE in 5 gallons of water and apply to an area of 1,000 square feet. Spray thoroughly to wet all undesirable plants. Repeat applications, 10 to 14 days apart, may be needed for good control.

AGRICULTURAL PLANTINGS: RIVERSIDE 612 HERBICIDE 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 2 to 4 quarts per acre.

Mix RIVERSIDE 612 HERBICIDE at the rate of 2 quarts in 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: RIVERSIDE 612 HERBICIDE is useful for controlling crabgrass, cocklebur, Dallisgrass, goosegrass, Johnsongrass, morningglory, nutsedge, pigweed, ragweed, watergrass, and similar weeds on drainage ditchbanks, right-of-ways, storage yards and similar non-crop areas.

Mix RIVERSIDE 612 HERBICIDE at the rate of 2 quarts in 50 gallons of water. Spray the unwanted vegetation thoroughly to the point of run-off. Any spray equipment that gives good coverage may be used. If regrowth occurs, retreat as required.

MIXING INSTRUCTIONS: RIVERSIDE 612 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.

DO NOT CONTAMINATE WATERS USED FOR DOMESTIC CONSUMPTION OR BY ANIMALS, WILDLIFE AND AQUATIC LIFE, OR WATER FOR IRRIGATION PURPOSES.

CONTAINER DISPOSAL

Do not reuse empty container. Wash thoroughly with water and detergent, crush if possible, and discard in a safe place.

NOTICE

Riverside Chemical Company warrants that the product 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, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Riverside Chemical Company, and buyer assumes the risk of any such use.

EPA REG. NO. 9779-86

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MANUFACTURED BY

RIVERSIDE CHEMICAL CO.

DIVISION OF COOK INDUSTRIES, INC., MEMPHIS, TENN. 38116

Riverside serves agriculture. Agriculture serves everyone.

ACCEPTED

January 23, 1973

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTERED
EPA UNDER NO. 9779-86

RIVERSIDE 120 HERBICIDE

CONTAINS 6.6 POUNDS OF MSMA PER GALLON.

USEFUL FOR SELECTIVE POST-EMERGENT CONTROL OF CERTAIN GRASSES AND BROADLEAVED WEEDS IN COTTON, IN LAWNS AND ORNAMENTAL TURF, IN CERTAIN AGRICULTURAL PLANTINGS, AND IN NON-CROP AREAS.

ACTIVE INGREDIENT:		
Monosodium Acid Methanearsonate*		51.3%
INERT INGREDIENTS:		
		48.7%
	TOTAL	100.0%
Total Arsenic (as elemental)		
oil in water soluble form		23.7%
*Product contains 6.6 lbs. MSMA per gallon		

CAUTION: KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed. Avoid contact with skin. Avoid breathing spray mist. Wash hands after using. Do not store near feed or food products. Keep children and domestic animals off treated areas until this material has been washed into the soil.

ANTIDOTE: If taken internally induce vomiting and call a physician at once.

READ ENTIRE LABEL BEFORE USING THIS PRODUCT: Use of this product in a manner not in accordance with the information on this label may injure or kill humans, domestic animals, wildlife, aquatic life, desirable plants, create excessive and unwanted chemical residues, or produce other undesirable results.

GENERAL INFORMATION

RIVERSIDE 120 HERBICIDE is useful for selective post-emergent weed control, particularly for grassy weeds. Best results are obtained on young, actively growing weeds at air temperatures above 70° F.

DIRECTIONS FOR USE

COTTON: RIVERSIDE 120 HERBICIDE is useful as a directed spray application to weeds in cotton for post-emergent control of grasses and broadleaved weeds, including barnyardgrass, crabgrass, cocklebur, Dallisgrass, foxtail, goosegrass, Johnsongrass, morningglory, nutsedge, pigweed, puncture vine, ragweed, sandbur, and watergrass.

RIVERSIDE 120 HERBICIDE should be applied with a low volume sprayer having satisfactory pumping and bypass action. Nozzles should be placed so as to give good coverage of the grasses and weeds. Proper coverage is very important. Mix at a rate of 3 pints of RIVERSIDE 120 HERBICIDE plus 1 quart of RIVERSIDE ACTIVATE, or comparable surfactant, in 50 gallons of water to form the spray solution. Apply at a broadcast rate of 40 gallons of this solution per acre.

PREPLANT APPLICATION: If planting of cotton has been delayed and weeds have emerged, use one preplant application. Apply the spray solution at a broadcast rate of 40 gallons per acre. Cotton may be planted immediately following the preplant application.

DIRECTED APPLICATION: 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. Apply the spray solution at a broadcast rate of 40 gallons per acre. For band application apply at a rate of 1 gallon of the spray solution per 1 inch of band width to be treated on cotton grown in 40 inch rows. A second application may be required during humid growing conditions. Time the second application, if necessary, about 1 to 3 weeks after the first application.

Slight burning and a reddish discoloration of the cotton leaves may occasionally occur following the recommended treatment but the cotton plant will develop normally.

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 FIELDS.

LAWN AND ORNAMENTAL TURF: RIVERSIDE 120 HERBICIDE is useful for the control of bahiagrass, barnyardgrass, chickweed, crabgrass, Dallisgrass, goosegrass, nutsedge, sandbur, and wood sorrel with little or no injury to good lawn grasses. On new lawns, do not treat until after three mowings. Good grasses may be temporarily discolored. Zoysia, bluegrasses, and bermuda are quite tolerant. Do not use on St. Augustine or centipede.

Mow lawns 1 to 1½ inches high before treatment. Mix 1 fluid ounce (2 tablespoons) of RIVERSIDE 120 HERBICIDE and ½ fluid ounce (1 tablespoon) of RIVERSIDE ACTIVATE, or comparable surfactant, in 5 gallons of water and apply to an area of 1,000 square feet. Spray thoroughly to wet all undesirable plants. Repeat applications, 10 to 14 days apart, may be needed for good control.

AGRICULTURAL PLANTINGS: RIVERSIDE 120 HERBICIDE 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 ½ to 1 quart per acre.

Mix RIVERSIDE 120 HERBICIDE at the rate of 1 gallon plus 1 quart of RIVERSIDE ACTIVATE, or comparable surfactant, in 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: RIVERSIDE 120 HERBICIDE is useful for controlling crabgrass, cocklebur, Dallisgrass, goosegrass, Johnsongrass, morningglory, nutsedge, pigweed, ragweed, watergrass, and similar weeds on drainage ditchbanks, right-of-ways, storage yards and similar non-crop areas.

Mix RIVERSIDE 120 HERBICIDE at the rate of 2 quarts plus 1 quart of RIVERSIDE ACTIVATE, or comparable surfactant, in 50 gallons of water. Spray the unwanted vegetation thoroughly to the point of run-off. Any spray equipment that gives good coverage may be used. If regrowth occurs, retreat as required.

MIXING INSTRUCTIONS: RIVERSIDE 120 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.

DO NOT CONTAMINATE WATERS USED FOR DOMESTIC CONSUMPTION OR BY ANIMALS, WILDLIFE AND AQUATIC LIFE, OR WATER FOR IRRIGATION PURPOSES.

CONTAINER DISPOSAL

Do not reuse empty container. Wash thoroughly with water and detergent, if possible, and discard in a safe place.

NOTICE

Riverside Chemical Company warrants that the product 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, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to the instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Riverside Chemical Company, and buyer assumes the risk of any such use.

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RIVERSIDE CHEMICAL CO.

CI DIVISION OF COOK INDUSTRIES, INC., MEMPHIS, TENN. 38116

Riverside serves agriculture. Agriculture serves everyone.

RIVERIDE
 HERBAN 62
 COTTON HERBICIDE
 Contains
 Herbicide active ingredient

ACCEPTED
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 1963

<u>ACTIVE INGREDIENT:</u>	<u>% BY WEIGHT</u>
Norel (3-hydroxy, 4-methyl-5-phenyl-2,1-dimethyl-2H-1,4-benzoxazin-6-yl)-1,1-dimethyl-2H-1,4-benzoxazin-6-yl)	13.1
Related Reaction Products	0.7
Monocrothol Acid Methyl Ester	29.1
<u>INERT INGREDIENTS</u>	<u>56.8</u>
TOTAL	100.0

U. S. Patent No. 3,304,167

Each gallon contains 1.6 pounds norel and related reaction products and 3.3 pounds NME. Total water soluble elemental arsenic content is 13.3 percent.

CAUTION: KEEP OUT OF REACH OF CHILDREN.
 Residue poisonous for fish, invertebrates, and handling precautions.

Shake well before spraying or using.

Directions for Use - 1963

A sprayer designed for non-volatile application is recommended. Do not use strainers finer than 10 mesh. The spray mixture must be agitated to maintain a uniform spray concentration. Fly-spray application is satisfactory.

Application of the Herbicide

30 to 40 gallons of spray broadcast rate per acre are required to ensure thorough uniform coverage of weeds. Use a proportional amount for hand treatment depending on level of infestation. Apply as directed spray to weeds. Keep off cotton foliage.

Mixing the Herbicide

Shake well before mixing. Add about one-half of the total volume of water to the tank. Start the pump to provide agitation, and pour in the desired amount of herbicide concentrate. This herbicide concentrate into spray tank. Add water to make the total desired volume.