

228-220

9/5/2003  
RIVERDALE®

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1.25% HEXAZINONE

LIQUID

READY-TO-USE WEED AND BRUSH KILLER

A non-selective (postemergent) liquid for use on industrial plant sites, highways, railroads, and pipeline rights-of-way, storage areas, parking lots and similar areas.

ACTIVE INGREDIENT:

Hexazinone [3-cyclohexyl-6-(dimethylamino)-1-methyl-1, 3, 5-triazine,  
2,4(1H, 3H)-dione]

1.25%

INERT INGREDIENTS:

98.75%

TOTAL 100.00%

U.S. Patents 3,902,887 & 3,983,116

Riverdale is a Registered Trademark of Riverdale - A Nufarm Company

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE PANEL FOR FIRST AID  
AND ADDITIONAL PRECAUTIONARY STATEMENTS

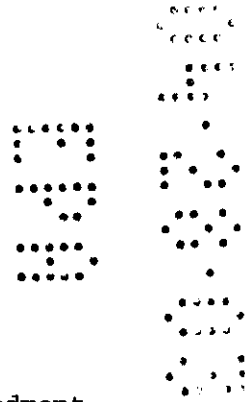
EPA REG. NO. 228-220

EPA EST. NO. 228-IL-1

NET CONTENTS GALS.

MANUFACTURED BY NUFARM AMERICAS, INC., BURR RIDGE, ILLINOIS 60527-0866

**ACCEPTED**  
SEP - 5 2003  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 228-220



## (Side Panels)

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

May irritate eyes, nose, throat and skin. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Remove and wash contaminated clothing before re-use.

**FIRST AID STATEMENT**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN  
OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system. **IMPORTANT:** Injury to or loss of desirable trees or other plants may result from failure to observe the following recommendations. Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants.

Thoroughly clean all traces of 1.25% Hexazinone Liquid from application equipment immediately after use. Flush tank, pump, hoses and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

The active ingredient, hexazinone, in this product is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.**

**GENERAL INFORMATION:** 1.25% Hexazinone Liquid is to be used as a spray for non-selective weed and brush control on non-cropland areas. It is non-corrosive to equipment. 1.25% Hexazinone Liquid is an effective general herbicide providing both contact and residual control of many weeds. At rates recommended for non-cropland areas, it provides control of many annual and biennial weeds, brush, woody vines, and except for Johnsongrass, is effective for control of most perennial weeds. It is absorbed through the roots and foliage. For brush control, soil application is most effective. Moisture is required to activate 1.25% Hexazinone Liquid in the soil. Best results are obtained when weeds are less than 2 inches in height, soil is moist at time of application and 1/4 to 1/2 inch of rainfall occurs within two weeks after application. Foliar application to weeds is most effective under conditions of high temperature (80°F), high humidity and good soil moisture. Foliar application when vegetation is dormant or semi-dormant may not be effective. On herbaceous plants, symptoms usually appear within 2 weeks after application under warm, humid conditions, while 4 to 6 weeks may be required when weather is cool. If rainfall after application is inadequate to activate 1.25% Hexazinone Liquid in the soil, plants may recover from contact effects and continue to grow. On woody plants, symptoms usually appear within 3 weeks after sufficient rainfall has carried the herbicide into the root zone, during periods of active growth. Defoliation

and subsequent refoliation may occur, but susceptible plants are killed. The degree of control and duration of effect will vary with the amount of chemical applied, rainfall, temperature, weed and brush species, soil texture and other conditions.

For broadcast treatments using ground equipment, apply 1.25% Hexazinone Liquid as a spray just before or soon after weed emergence. Do not apply to frozen or snow-covered soil. Before spraying, calibrate equipment to uniformly and thoroughly cover the vegetation and soil in a measured area to be treated. Add the proper amount of 1.25% Hexazinone Liquid to a spray tank. A suitable surfactant such as Dupont Surfactant WK may then be added at the rate of 1 quart per 100 gals. of spray to improve wetting and/or contact activity. After thoroughly mixing the spray solution, a suitable defoaming agent such as DOW Corning "Antifoam A: or Hodag "Antifoam F-1" may also be added at the rate of 1 to 5 oz. per 1000 gals. of spray should foaming become a problem. Agitate thoroughly to disperse the defoaming agent.

Use a fixed boom sprayer properly calibrated to a constant speed and rate of delivery. For application with a handgun sprayer be sure to obtain thorough coverage. For treating small non-crop areas, a tank-type hand sprayer may be used.

**GENERAL WEED AND BRUSH CONTROL - NON-CROPLAND AREAS:** Railroad, Highway, Utility and Pipeline Rights-of-Way, Petroleum Tank Farms, Storage Areas, Industrial Plant Sites, Drainage Ditchbanks and other similar areas.

Use the higher levels of the recommended dosage ranges under the following conditions: on hard-to-kill species; on fine-textured soils (clay, clay loam); on soils containing more than 5% organic matter or carbon; and on coarse textured soils (sand, loamy sand, gravelly soils) where rainfall exceeds 40 inches per year, use the lower levels or the dosage ranges if the growing season is short.

**WEED CONTROL:** Apply 50 to 100 gals. per acre for season long control of many annual, biennial and perennial weeds including Bahiagrass\*, Bermudagrass\*, Bluegrass, Broomsedge, Camphorweed, Canada thistle\*, Chickweed, Clovers, Dewberry, Dogfennel\*, Fescue\*, Fingergrass, Foxtail, Guineagrass, Heath aster, Honeysuckle, Lantana, Marestail\*, Natalgrass, Plantain, Prickly lettuce, Ragweed, Smutgrass, Spanish needle, Vaseygrass, Wild blackberry\*, and Wild carrot.

For short term control (up to 3 months) of the above weeds, apply 17 to 43 gals. per acre. Application at 17 to 43 gals. per acre also provides short term control of many annual, biennial and perennial weeds including barnyardgrass. Bindweed\*, Bouncing bet\*, Bromegrass, Buffalograss\*, Burdock, Cocklebur, Crabgrass, Crown vetch, Curly dock\*, Dandelion\*, Dogbane\*, Fiddleneck, Filaree, Fleabane, Goatsbeard vine, Goldenrod, Lespedeza, Milkweed\*, Mustard, Nutsedge\*, Orchardgrass\*, Oxalis, Paragrass, Pigweed, Purslane, Quackgrass, Ryegrass, Smartweed, Spurge, Trumpet creeper\*, Wild oats, Wild parsnip and Wild star thistle.  
\*Considered to be hard-to-kill.

For small area - 1-1/2 gals. per 1000 sq. ft. is approximately 66 gals. per acre.

**BRUSH CONTROL:** Apply to soil during the period between late Winter and early Summer for control of Blackgum, Black cherry, Elm, Flowering dogwood, Green ash, Hawthorn, Hickory, Oaks (except live oak), Persimmon, Sumac, Sweetgum, and Willow. Areas where the soil normally remains frozen during the Winter and Spring rains are usually inadequate for soil activation. A Fall or Winter treatment may be applied before the soil freezes.

**Note:** For effective brush control and prevention of damage to desirable vegetation: do not apply to brush standing in water; do not use water from treated ditches for irrigation; do not use where desirable trees or shrubs are immediately adjacent to the treated area.

**Broadcast Treatment:** Apply 33 to 66 gals. of 1.25% Hexazinone Liquid per acre as a coarse spray. Direct the spray to the soil beneath woody plants to be controlled.

**Basal Soil Treatment:** Apply 1.25% Hexazinone Liquid with a handgun applicator. This equipment delivers a thin stream of predetermined volume. Apply at the rate of 2 to 3 gals. per 1000 sq. ft. Direct the spray as a straight stream to the soil area surrounding the root collar area of the woody plants to be controlled.

**STORAGE AND DISPOSAL**

**STORAGE:** Always store pesticides in a secured warehouse or storage building. Do not store near open containers of fertilizer, seed or other pesticides. Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment.

**PESTICIDE DISPOSAL:** Open dumping is prohibited. Waste or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures. Place in a closed, labeled container for proper disposal.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned stay out of smoke.

**NOTICE OF WARRANTY**

Seller warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of seller. In no case shall seller be liable for consequential, special or indirect damage resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. SELLER MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

(RV 041803)