


PM 23

228-220

1975

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

(A) 	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number 196234
	Application for Pesticide:		
	Section I		

1. Company/Product Number 228-220	2. EPA Product Manager Joanne I. Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Riverdale 1.25% Hexazinone Liquid RTU Weed and Brush Killer	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) RIVERDALE CHEMICAL COMPANY 425 West 194th Street Glenwood, IL 60425-1584 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

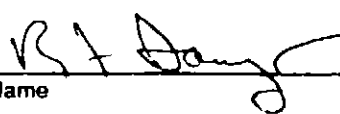
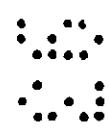
Section II	
<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

To comply with PR Notice 93-3

**NOTIFICATION
LABEL NOT REVIEWED
PER PR NOTICE 93-3**
DATE 6/30/93

Section III			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted.		If "Yes," Unit Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		If "Yes," Package wgt.	No. per container
4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other (_____)	

Section IV		
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Russell F. Sawyer	Title Regulatory Affairs Manager	Telephone No. (Include Area Code) 708/754-3330
2. Signature 		6. Date Application Received (Stamped) 
3. Title Regulatory Affairs Manager		
4. Typed Name Russell F. Sawyer		
5. Date June 9, 1993		

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND STATEMENT OF PRACTICAL TREATMENT

EPA REG. NO. 228-220

EPA EST. NO. 228-IL-1

NET CONTENTS GAL.

MANUFACTURED BY

RIVERDALE CHEMICAL COMPANY
GLENWOOD, ILLINOIS 60425-1584

(Left Side Panel)

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.

STATEMENT OF PRACTICAL TREATMENT

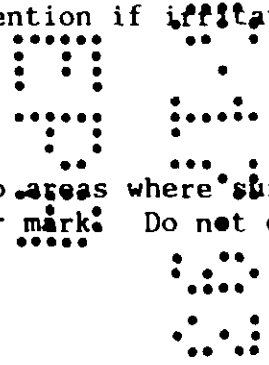
IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

IF ON SKIN: Wash with plenty of soap and water.

ENVIRONMENTAL HAZARDS

For terrestrial uses, 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

Revised A/O 3/9/93



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).

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.

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 $\frac{1}{4}$ to $\frac{1}{2}$ 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 refoilation 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 100 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.

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DIRECTIONS FOR USE (cont'd)

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 in 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, Buffelgrass*, 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 - $1\frac{1}{2}$ 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 liveoak), Persimmon, Sumac, Sweetgum, and Willow. In areas where the soil normally remains frozen during the winter and spring rains are ususally 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 handgund 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.



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STORAGE AND DISPOSAL

STORAGE: Always store pesticides in a secured warehouse or storage building. Do not store near seeds, fertilizers, insecticides or fungicides. 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 of 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 EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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