

1,1 DE 21-11

1046

Ms. Elizabeth Bugg
Kern Manufacturing Corporation
2075 Tucker Industrial Road
Tucker, GA 30085

DEC 5 1986

Dear Ms. Bugg:

Subject: Diquat Registration Standard-Revised Labeling
Nor~~Kem~~ 500
EPA Registration No. 5197-37
Your Submission Dated November 11, 1986

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable provided you:

1. Make the labeling changes listed below before releasing the product for shipment bearing amended labeling.
 - a. Delete the third paragraph under Environmental Hazards. The content is repetitive of instructions in the preceding paragraph.
 - b. Delete "General Classification." The Agency no longer uses this terminology.
 - c. Modify Pesticide Disposal to read:

Wastes resulting from use of this product must be disposed of according to applicable Federal, State, or local procedures.
 - d. Delete "ditches" under general noncrop sites since only "drainage ditches" are approved sites for application of this pesticide.
 - e. The maximum aquatic application rate must be 4 lb cation/surface acre-foot to insure that residue levels remain within established limits. For this product, the maximum application rate based on 0.10 lb cation/gallon is 40 gallons/surface acre-foot. Modify dilution instructions to reflect a maximum rate of 4 lb cation/surface acre-foot.

BEST AVAILABLE COPY

90597:Mountfort:MF-12:KENCO:12/3/86:12/15/86:bjp:VO

CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							

2. Submit one (1) copy of final printed labeling incorporating the changes above.

A stamped copy of labeling is enclosed for your records.

We cannot process the updated formula statement dated December 10, 1984 pending receipt of additional information on the inert ingredient Chemax NP-10. Please have your supplier submit a statement of composition referencing your EPA Registration Number. If Chemax NP-10 is or consists of new ingredients, toxicity testing will be required for this adjuvant. Minimum test requirements for inert ingredients are described on enclosed sheets, Appendix 1-3 (October 23, 1986 memorandum - Bishop to Addressees).

Sincerely yours,

Richard F. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Enclosure

BEST AVAILABLE COPY

(Black printing on yellow background.)

Front Panel

NORKEM® 500

A Contact Non-Selective Vegetation Killer for The Control of Broadleaf Weeds, Grasses, and Aquatic Weeds

ACTIVE INGREDIENT:

Diquat dibromide [6,7-Dihydrodipyrido (1,2-a:2',1'-c) pyrazinedium dibromide]* 2.16%

INERT INGREDIENTS: 97.84%

(*Contains 0.18 lbs. salt per gallon = 0.10 lbs. cation per gallon)

This product is a herbicidal chemical, when used as directed, will kill most all forms of plant growth without damage to the soil. Absorption and herbicidal action is usually quite rapid with effects visible in a few days. This product is inactivated on contact with soil.

TYPE }
10 PT.
14 PT.

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: IMMEDIATELY CALL A DOCTOR. If conscious, give a large amount of water to drink and induce vomiting by placing fingers in back of throat. Never give anything by mouth to an unconscious person.

IF INHALED: If respiratory irritation, move to fresh air. If condition continues, see a doctor.

IF ON SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water. See a doctor if rash or burn occurs. Launder contaminated clothing. Discard contaminated non-waterproof shoes and boots.

IF IN EYES: Wash eyes immediately with fresh water for at least 15 minutes and see a doctor.

See Side Panel for Additional Precautionary Statements

® Registered Trademark Kem Manufacturing Corp.

EPA Reg. No. 5197-37
EPA Est. No. 5197-GA-1

(Actual amount to be filled in depending on container size)

NET CONTENTS

U. S. GALS.

Dec 8 1985
5197-37

KEM MANUFACTURING CORPORATION
2075 Tucker Industrial Road
Tucker, Georgia 30085-5061

plants in: Europe/Latin America/Caribbean/Canada/U.S.A.

PD 8.44 265/gal

BEST AVAILABLE COPY

Left Panel (and continued to right panel depending on amount of copy space)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Symptoms of injury may be delayed. Wear face shield, rubber gloves and rubber apron when handling concentrate. Do not breathe spray mist in order to avoid nasal, throat and respiratory tract irritation. When spraying or when contacting sprayed vegetation wet with spray, dew or rain, wear waterproof footwear and clothing. Repeated contact with skin or contact with open cuts or sores may increase the hazard associated with this product. ✓

ENVIRONMENTAL HAZARDS

Do not contaminate feed, foodstuffs or drinking water. Do not store or transport near feed or food. Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

highly toxic to fish

This pesticide is toxic to wildlife. Do not apply directly to water except as specified on this label. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not use treated water for animal consumption, spraying or irrigation within 14 days after treatment. Treatment of dense weed areas can result in oxygen loss from decomposition of dead weeds. This loss can cause fish suffocation. Therefore, treat only 1/3 to 1/2 of the dense weed areas at a time and wait 14 days between treatments. Consult your State Fish and Game agencies before applying this product to public waters. Do not apply to muddy water and do not agitate water excessively with outboard motor or injection equipment during application. Wash sprayer immediately after application with detergent and water, then rise with clean water.

This pesticide is toxic to wildlife. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

X GENERAL CLASSIFICATION

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

REENTRY STATEMENTS

Do not allow entry of maintenance personnel into treated areas within 24 hours after treatment unless protective clothing is worn.

Do not allow swimming in treated areas within 14 days after treatment.

BEST AVAILABLE COPY

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage: Keep container closed. Store at temperatures above 32⁰F.

Pesticide Disposal: Wastes resulting from the use of this product ^{must} be disposed of ~~on site or at an approved waste disposal facility.~~

Container Disposal: ^{according to federal, state or local procedures} 20, 35 and 55 gallon drums - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

5 or 6 gallon drums - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Smaller Containers: Do not reuse container. Rinse thoroughly before discarding in trash.

1. General weed control in non-crop areas. Controls broadleaf weeds, brush, and grasses. Kills most every type of plant life on contact...It kills through the leaves only.
2. General weed control in shrub areas. Chemical will not injure desirable plants as long as spray does not come in contact with leaves of these plants. Chemical becomes inactive on contact with soil; therefore, plant roots do not take up chemical and chemical does not build up and become toxic at a later date.
3. Spot weed control in ^{or} lawns and other areas will kill undesirable grasses in lawns if these grasses are spot sprayed.
4. General vegetation control around buildings and other installations, walkways, storage areas, beneath benches, fence lines, golf courses, parkways, driveways, ditches, sand traps and other areas where any type of vegetation is undesirable.
5. Aquatic weed control. Both surface and subsurface in ponds, lakes, and drainage ditches.

NON-CROP OR NON-PLANTED AREAS: To kill above ground weed growth around buildings and other installations, walkways, beneath benches, fence lines, golf courses, parkways and driveways for control of undesirable broad-leaved and grass-type weeds, mix 1 gal. per 20 gals., water (6-1/2 cc. per gal. water). Apply for full coverage and through weed contact. Apply preferably to young growth and up to seeding of weeds. Repeat applications necessary to maintain control, particularly on grasses and established weeds. Avoid spray contact with foliage, food crops or ornamental plants. Do not water treated areas for 24 to 36 hours after application.

BEST AVAILABLE COPY

0.376

SHRUBS AND LAWN AREA: Mix as above and apply to thoroughly wet leaves and stems of undesirable weeds and grass. Avoid wetting leaves of shrubbery or desirable grasses in the lawns. Only those areas touched by the product will be killed.

AQUATIC USE DIRECTIONS

For application only to ponds, lakes, and drainage ditches where there is little or no outflow of water, and which are totally under the control of the product's user. Do not use the treated water for animal consumption, spraying, irrigation, or domestic purposes for 14 days after treatment.

WATER TREATMENTS

Gals./SURFACE ACRE PPM**

*Algae (Spirogyra and Pithophora spp.)			1/2 to 1-1/2
Bladder wort (Utricularia spp.)	20 to 40 gals.	✓	
Coontail (Ceratophyllum demersum)	40 gals.		
Elodea (Elodea spp.)	40 gals.		
Naiad (Najas spp.)	20 gals.		
*Pondweed (Potamogeton spp.)	40 gals.		
Watermilfoil (Myriophyllum spp.)	20 to 40 gals.		

HOW TO APPLY: Make application from a boat or other suitable craft either by injecting this product below the water surface, or by pouring it directly from the container into the water while moving slowly over the water surface. *Repeat application may be necessary under conditions of heavy infestations or where reinfestation may readily occur from seed, fragmentation or escapes.

**This product cation by weight. (See dilution chart.)

****DILUTION CHART**

Depth of Water (Feet)	Gallons To Use Per Acre At Indicated PPM-Cation (By Wt.)		
	1/2 ppm	1 ppm	1-1/2 ppm
1	14 Gal.	28 Gal.	42 Gal.
2	28 Gal.	56 Gal.	84 Gal.
3	42 Gal.	84 Gal.	126 Gal.
4	56 Gal.	112 Gal.	168 Gal.
5	70 Gal.	140 Gal.	201 Gal.

FOLIAGE SPRAY TREATMENTS

AMOUNT/ACRE

Salvinia (Salvinia rotundifolia)	10 to 15 Gal.
Waterhyacinth (Eichhornia crassipes)	10 to 15 Gal.
Waterlettuce (Pistia stratiotes)	10 to 15 Gal.

FOLIAGE SPRAY TREATMENTS should be applied in sufficient water (150-200 Gals., per acre) to thoroughly wet foliage. As the season progresses and vegetation increases in mass, the higher dosages indicated should be used and more uniform distribution is necessary. Local conditions may affect the use of this chemical. Consult competent state or local agricultural authorities for specific recommendations as to dosage and time of application, and for control of other weeds. Check with state authorities for necessary permits.

(E) 101
K:

NOT FOR RESALE

1186
1134

BEST AVAILABLE COPY