

19713-528

12-11-2007

1/3



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

DEC 11 2007

Ms. Luz Chan
Drexel Chemical Company
P.O. Box 13327
Memphis, TN 38113-0327

Subject: Diurnate Herbicide
EPA Registration Number 19713-528
Revised label submitted by email on December 5, 2007
Diuron Reregistration Required Label Revisions

Dear Ms. Chan:

The labeling referred to above, submitted in connection with reregistration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

- 1) Move the restriction "Do not apply more than 12 lbs diuron active ingredient (20 gallons of this product) per acre per year" from the COTTON- USE RESTRICTIONS AND PRECAUTIONS section to the NON-CROP USE- USE RESTICTIONS AND PRECAUTIONS section.

Submit one (1) copy of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records. If you have any questions, contact Hope Johnson at 703-305-5410.

Please note: Final product reregistration cannot be considered until after all active ingredients in this product are eligible for reregistration.

Sincerely,

A handwritten signature in black ink, appearing to read "James A. Tompkins".

James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505P)

ACCEPTED
with COMMENTS
in EPA Letter Dated
DEC 11 2007

2/3



Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

19713-528

Diumate

Herbicide

MSMA Liquid Diuron. For selective postemergent weed control.

ACTIVE INGREDIENTS:

Monosodium acid methanearsonate.....	34.60%
Diuron	5.18%

OTHER INGREDIENTS: 60.22%

TOTAL: 100.00%

Total Arsenic (as elemental) all in water soluble form is 16.00%. This product contains 4 lbs. MSMA plus 0.6 lbs. Diuron per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See First Aid Below
SHAKE WELL BEFORE USING

EPA Reg. No. 19713-528
EPA Est. No. 19713-MS-001 Net Contents: 2.5 Gals.

FIRST AID
IF SWALLOWED: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious or convulsing person.
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 INHALED: • Move person to fresh air. • If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

All pilots, flaggers, and groundboom applicators, must wear: Long sleeved shirt and long pants, and shoes plus socks. In addition, groundboom applicators must also wear chemical-resistant gloves. (Continued)

PRECAUTIONARY STATEMENTS (Cont.)

All mixers, loaders, other applicators, and other handlers must wear: Long sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves such as polyethylene or polyvinyl chloride, a chemical-resistant apron when mixing, loading, or cleaning equipment or spills, and a NIOSH-approved particulate filtering respirator with any N, R, or P class filter media with NIOSH approval number prefix TC-84A. It is recommended that the respirator wearer be fit tested, and trained in the use, maintenance, and limitations of the respirator.
See engineering controls for additional requirements.
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].
Flaggers supporting aerial applications must use an enclosed cab that meets the definition in the WPS for agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, flaggers must wear long-sleeved shirt, long pants, shoes, and socks.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing / PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 cleaning equipment or disposing of equipment washwaters. Apply this product only as specified on the label.

GENERAL INFORMATION

DIUMATE HERBICIDE may be used for selective postemergent weed control for grassy weeds in Cotton and non-crop areas. This product is a combination of herbicides 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.

This product applied properly will kill or control noxious weeds susceptible to MSMA such as:

Barnyard grass	Goosegrass	Puncturevine
Cocklebur	Johnsongrass	Sandbur
Dallisgrass	Nutsedge	Morningglory

DIRECTIONS FOR USE

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

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition, et al. v. EPA C01-0143C (W.D. WA). For further information, please refer to www.epa.gov/espp.



Manufactured By:
Drexel Chemical Company
P.O. BOX 13327, MEMPHIS, TN 38113-0327
SINCE 1972

3/3

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 12 hours.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves made of any waterproof material and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow others to enter the treated area until sprays have dried.

MIXING INSTRUCTIONS

This product must be thoroughly mixed before using. 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, agitate, then apply. Use continuous mechanical or by-pass agitation during use. After use, clean equipment thoroughly by flushing with water. Do not store spray solution in tank for a prolonged period.

REQUIREMENTS FOR REDUCING SPRAY DRIFT FOR DIURON APPLICATIONS

Use best practices to avoid drift to all other crops and non-target areas. Do not apply when conditions favor drift from target areas. The interaction of many equipment and weather-related factors determine the potential for spray drift. Avoiding spray drift at the application site is the responsibility of the applicator. The applicator must follow the most restrictive precautions to avoid drift, including those found in this labeling as well as applicable state and local regulations and ordinances. A drift control agent may reduce drift, however it may also decrease weed control.

Make applications only when the wind speed is less than or equal to 10 miles per hour.

Do not make applications into temperature inversions.

Apply with medium or coarser spray (according to ASAE standard 572) for standard nozzles.

When applying to crops, apply with nozzle height no more than 2 feet above the ground or crop canopy. When applying to non-crop areas, use lowest nozzle height consistent with safety and efficacy. Direct spray into target vegetation.

The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Use upwind swath displacement.

When applying to crops, do not release the spray at a height greater than 6 to 10 feet above the ground or crop canopy. When applying to non-crop areas, apply at a minimum safe altitude above the area being treated.

Do not apply by air if sensitive non-target crops are within 100 feet of the application site.

COTTON

This product 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 this product is not necessary.

POSTEMERGENT-DIRECTED

Mix this product at a rate of 2 quarts in 40 gallons of water for application as a directed broadcast spray to 1 acre when weeds are small. For bank applications 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 to control perennials, such as Johnsongrass and Nutsedge. Apply the second application 1 to 3 weeks later. Keep spray off Cotton foliage. Apply only when Cotton is 6 inches high to first bloom. Do not apply after first bloom. Nozzles should be adjusted to direct spray to weeds to allow maximum coverage of weeds with no contact to Cotton foliage.

For Postemergent-Directed Banded Applications:

Band Size (in.)	Amount of This Product Per Acre (oz.)	Volume of Water Per Acre (gal.)
12	19.5	12
14	22.5	14

Off-center fan-type nozzles, 100 mesh-screen, approximately 5 inches from the ground with 25 pound pressure 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 area.

USE RESTRICTIONS AND PRECAUTIONS

Maximum application rate per crop cycle is as follows:

SOIL TYPE	Amt. of Diuron a.i. per acre	Amt. of this Product per acre
Coarse	0.8 lbs.	1.3 gals.
Medium	1.5 lbs.	2.5 gals.
Fine	2.2 lbs.	3.6 gals.

Do not make more than three applications per year. Minimum retreatment interval is 21 days.

Do not apply more than 12 pounds of diuron active ingredient (20 gallons of this product) per acre per year.

NON-CROP USE

This product is useful in the control of emerged weeds and grasses such as those listed under GENERAL INFORMATION and many similar weeds on drainage ditchbanks, fence rows, right-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 this product at a rate of 2.5 gallons 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 regrowth occurs, re-apply as required.

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

USE RESTRICTIONS AND PRECAUTIONS

Do not apply more than 12 pounds of diuron active ingredient (20 gallons of this product) per acre in areas of high rainfall or dense vegetation per year.

Do not apply more than 8 pounds of diuron active ingredient (13.3 gallons of this product) per acre in all other areas.

Do not make more than two applications per year. Minimum retreatment interval is 90 days.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Do not store this product near fertilizers, seed, insecticides or fungicides. Do not store near heat or open flame. Freezing point of this product is approximately 30°F. If stored below freezing, warm to 50°F and agitate thoroughly before using. Containers should not be stacked more than six high. Reclose all partially used containers by thoroughly tightening screw cap. Damaged or leaking containers which cannot be used immediately should be transferred to suitable sound containers 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, all pesticides should be stored in locked facilities.

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. If these 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 (or equivalent) adding rinsate to spray tank. Offer rinsed container for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Manufacturer and is accepted as such by the Buyer.