

19713-528

6/20/2012

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U S ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave , NW
Washington, D C 20460

EPA Registration Number

19713-528

Date of Issuance

JUN 20 2012

NOTICE OF PESTICIDE

- X Registration
X Reregistration

(under FIFRA as amended)

Term of Issuance

Unconditional

Name of Pesticide Product

Diurnate

Name and Address of Registrant (include ZIP Code)

Drexel Chemical Company
P O Box 13327
Memphis, TN 38113-0327

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant the above named pesticide is hereby registered/reregistered under the Federal Insecticide Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

EPA received a label amendment request submitted on June 20, 2012. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistration Eligibility Decision (RED) for Diuron and MSMA have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

The Basic and Alternate Confidential Statement of Formula (CSF) dated August 2, 2011 are acceptable, and supersedes all previously-accepted CSFs.

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products released for shipment after twelve (12) months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

If you have any questions regarding this Notice, please contact Mindy Ondish at (703)605-0723 or at ondish.mindy@epa.gov

Signature of Approving Official

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)

[Handwritten signature]

Date

JUN 20 2012

ACCEPTED

JUN 20 2012

Under the Federal Insecticide Fungicide and Rodenticide Act as amended for the pesticide registered under EPA Reg No 19713-528



Diumate
Herbicide

GROUP 7 17 HERBICIDES

For selective postemergent weed control on Highway Rights of Way and Cotton

ACTIVE INGREDIENTS	
Monosodium acid methanearsonate*	34 60%
Diuron	5 18%
OTHER INGREDIENTS	<u>60 22%</u>
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
 [Optional Recirculate Contents Before Use]

EPA Reg No 19713 528
 EPA Est No 19713-XX XXX

Net Content _____

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 an 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	

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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 polyethylene or polyvinyl chloride If you want more options follow the instructions for category A on an EPA chemical resistance category selection chart

All pilots and flaggers must wear Long sleeved shirt long pants shoes and socks

All mixers, loaders, other applicators and other handlers must wear Long sleeved shirt long pants shoes plus socks chemical resistant gloves NIOSH approved dust/mist filtering respirator with N R P or HE filter or a NIOSH-approved dust/mist filtering respirator with approval number prefix TC-21C and chemical resistant apron when mixing loading or cleaning equipment or spills

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

RESISTANCE MANAGEMENT

GROUP 7 17 HERBICIDES

This product is a Group 7 and Group 17 herbicides Any weed population may contain or develop plants naturally resistant to this product and other Group 7 and Group 17 herbicides Weed species with acquired resistance to Group 7 and Group 17 may eventually dominate the weed population if Group 7 and Group 17 herbicides are used repeatedly in the same field or in successive years as primary method of control for targeted species This may result in partial or total loss of control of those species by this product or other Group 7 and Group 17 herbicides

To delay herbicide resistance consider

- Avoiding the consecutive use of this product or other target site of action Group 7 and Group 17 herbicides that have a similar target site of action on the same weed species
- Using tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern
- Basing herbicide use on a comprehensive IPM program
- Monitoring treated weed populations for loss of field efficacy

- Contacting your local extension specialist certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes

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 (WD WA) For further information please refer to www.epa.gov/espp

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

USE INFORMATION

DIUMATE herbicide may be used for selective postemergent weed control for grassy weeds in Cotton and Highway Rights-of-Way 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

Barnyardgrass	Nutsedge
Cocklebur	Puncturevine
Dallisgrass	Sandbur
Goosegrass	Morningglory
Johnsongrass	

APPLICATION RESTRICTIONS

Do not apply this product in Florida except on Cotton in the counties listed in the Cotton use section of this label

Aerial application is prohibited except when applying to Cotton

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 bypass 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 GROUND AND AERIAL 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 application 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 ASABE standard S572.1) for standard nozzles.

When making ground application to cotton, apply with nozzle height no more than 2 feet above the ground or crop canopy. When applying to highway rights-of-way, use the lowest nozzle height consistent with safety and efficacy. Direct spray into target vegetation.

When making aerial application to cotton, do not release the spray at a height greater than 6 to 10 feet above the ground or crop canopy. Do not apply by air if sensitive non-target crops are within 100 feet of the application site. Do not apply by air to highway rights of way.

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.

COTTON

This product is useful for control of emerged weeds and grasses such as those listed under *USE 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 band applications in 40 inch rows, apply 1 gallon of spray solution per inch of band width per acre. If a salvage operation is needed (i.e., if pigweed escapes the first application), then a second or repeat application at 2 quarts per acre is allowed. A second or repeat application, if needed, should be timed 3 weeks after the first application. Apply only as a salvage operation. Apply only to healthy, rapidly growing Cotton 3 inches high, but no later than 6 inches high or early square, whichever occurs first. Preference should be given to directed spray. In order to minimize injury, the second application should be made as a directed spray when possible. 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.

USE RESTRICTIONS

- 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
Do not apply in Florida except on Cotton grown in the following counties Calhoun Columbia Escambia Gadsden Hamilton Holmes Jackson Jefferson Okaloosa Santa Rosa Suwannee Walton and Washington
Note Applications to Cotton in Florida should be confined to band treatments
Only one application of this product (up to 2 qts per acre) is allowed per season except when a salvage operation is needed
If a salvage operation is needed (i.e if pigweed escapes the first application) then a second or repeat application of up to 2 qts of this product per acre is allowed
Do not apply more than a total of 1 gallon of this product per acre per season when making a second (salvage) application
Do not apply preplant to Cotton
Do not make more than two applications per year Minimum retreatment interval is 21 days
Do not apply within 50 feet of permanent water bodies or aquatic habitat including but not limited to lakes reservoirs rivers streams marshes ponds and estuaries

HIGHWAY RIGHTS-OF-WAY

This product is useful in the control of emerged weeds and grasses such as those listed under *USE INFORMATION* and many similar weeds on highway rights-of-way 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

USE RESTRICTIONS

- Do not use this product in the State of Florida
- Do not apply by air
- Do not use on drainage ditch banks railroad pipeline and utility rights-of way fence rows storage yards and similar non crop areas
- Do not feed treated foliage to livestock or graze treated areas
- Do not make more than two broadcast applications per year Minimum retreatment interval is 90 days
- Do not apply within 100 feet of permanent water bodies or aquatic habitat including but not limited to lakes reservoirs rivers streams marshes ponds and estuaries
- Use of this product on highway rights-of way after December 31 2013 is prohibited

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage and disposal
PESTICIDE STORAGE Storage should be under lock and key and secure from access by unauthorized persons and children Storage should be in a cool dry area away from any heat or ignition source High heat may form volatile arsenic compounds Do not stack over 2 pallets high Move containers by handles or in cases Do not move containers from one area to another unless they are securely sealed Keep container tightly sealed when not in use Keep away from any puncture source Avoid storage near water supplies food feed seed fungicides insecticides and fertilizers to avoid contamination Store in original containers only If the contents are leaking or material is spilled follow these steps while wearing protective clothing

- 1 Contain spill Absorb with an inert material such as sand or sawdust
- 2 Collect and place in suitable containers for disposal
- 3 Wash area with soap and water to remove remaining pesticide
- 4 Follow washing with clean water rinse
- 5 Place a leaking container in a plastic tub and transfer content as soon as possible to an empty original container

(continued)

(continuation)

6 Do not allow runoff to enter sewer or contaminate water supplies

7 Dispose of waste as indicated below

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

Nonrefillable Container (rigid material, less than 5 gallons) Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable Container (rigid material, 5 gallons up to < 250 gallons) Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Container (≥ 250 gallons & Bulk) Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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.

Manufactured By



Drexel Chemical Company

P.O. BOX 13327 MEMPHIS, TN 38113 0327

SINCE 1972

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