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DIUREX 80WDG
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COMMERCIAL
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Formulation of Diuron
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Water Dispersible Granules
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For Selective Weed Control
in Grapes and Asparagus and
Weed Control on Non-Crop Areas
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GUARANTEE:
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Diuron.....80%

Warning, contains the allergen sulfites
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READ THE LABEL BEFORE USING
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WARNING - EYE IRRITANT
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REGISTRATION NO. 28107
PEST CONTROL PRODUCTS ACT
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Adama Agricultural Solutions Canada Ltd.
302 - 179 McDermot Avenue
Winnipeg, MB
R3B 0S1
855-264-6262
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Net contents 1-50 kg
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CAUTION: KEEP OUT OF REACH OF CHILDREN. Causes eye irritation. DO NOT get in eyes. May irritate nose, throat and skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. Harmful if swallowed. Do not reuse containers.

GENERAL INFORMATION

DIUREX 80 WDG is a wettable solid to be mixed in water and applied as a spray to the surface of the ground or irrigation and drainage ditches for control of weeds. Effects are slow to appear and will not become apparent until the chemical has been carried into the root zone of the weeds by moisture. DO NOT APPLY BY AIR.

It is non-corrosive to equipment, non-volatile and non-flammable. The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall and other conditions.

MOISTURE: DIUREX 80 WDG requires moisture in the form of rainfall or irrigation after treatment to carry the chemical into the root zone of weeds.

APPLICATION INFORMATION: Before spraying, calibrate equipment to determine quantity of water necessary to uniformly cover area to be treated. Accurately weigh amount of DIUREX 80 WDG required and mix into necessary volume of water. Water serves only as a carrier.

Except for small areas, use fixed-boom power sprayers properly calibrated to ensure constant rate of application. Openings in screens should be equal to or larger than 50 mesh.

Material must be kept in suspension at all times by agitation, preferably by continuous mechanical or hydraulic means in the spray tank. If by-pass or return line is used, it should terminate at bottom of tank to minimize foaming. Do not use air agitation. For general weed control in small areas, tank-type hand sprayer or sprinkling may be used; shake or stir frequently. Make certain spray equipment is clean (free of scale, rust, dirt, oil and pesticide deposits). Use sufficient water (250 to 400 litres per hectare of areas actually sprayed) to provide thorough and uniform coverage.

CAUTION: Do not graze the treated areas or cut for hay; sufficient data are not available to support such use.

DIRECTIONS FOR USE

RESISTANCE-MANAGEMENT RECOMMENDATIONS: For resistance management, DIUREX 80 WDG is a Group 7 herbicide. Any weed population may contain or develop plants naturally resistant to DIUREX 80 WDG and other Group7 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of DIUREX 80 WDG or other Group 7 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Adama Agricultural Solutions at 855-264-6262.

DO NOT apply by air.

NON-CROP WEED CONTROL: DIUREX 80 WDG will control many annual and perennial grasses and broadleaf weeds on non-crop land areas where bare ground is desired. It may be used at any time, except when ground is frozen. Best results are obtained when applied shortly before weed growth begins. Dense growth should be removed. When a second application is performed, observe a minimum interval of 90 days between the first application and retreatment.

Field Sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) classification indicated in the table under “Buffer zones”.

For application to rights-of-way, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g. wind direction, low wind speed) and spray equipment (e.g. coarse droplet sizes, minimizing height above canopy), should be used. Do not directly apply to any aquatic habitats that are traversed by the rights-of-way.

Do not use in residential areas or areas where bystanders may be in contact with treated foliage. Residential areas are defined as sites where bystanders including children may be potentially exposed during or after spraying. This includes around homes, school, parks, playgrounds, playing fields, public buildings.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and parks is minimal. Take into consideration meteorological conditions (e.g. wind speed, wind direction, temperature) as well as application equipment and sprayer settings used for application.

GENERAL WEED CONTROL: Apply a maximum of 11.25 kg per hectare per application (including spot application). Apply a maximum of 2 applications per year (including spot

applications) up to a total maximum annual dose of 16.8 kg/ha. When a second application is performed, observe a minimum interval of 90 days between the first application and retreatment. A single maximum application of 16.8 kg/ha (13.5 kg a.i./ha) is permitted for sites receiving high rainfall and covered in dense vegetation.

SPOT TREATMENT: To control deep-rooted perennial weeds such as quackgrass and toadflax, spot treat at a rate of 110 g per 100 square meters. Re-treat as necessary to a maximum of 163 g per 100 square meters per year. This treatment will result in the loss of soil productivity for an extended period.

FOR SMALL AREAS: 115 g of DIUREX 80 WDG per 100 square meters is approximately 11.25 kg per hectare.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

NATURE OF RESTRICTION: This product is to be used only in the manner authorized; consult local pesticide regulatory authorities about use permits which may be required.

NOTE: The use of DIUREX 80 WDG requires authorization by Provincial Permit. Provincial permits must include specifications of measures:

- a) To prevent treated water that contains diuron from endangering fish in natural bodies of water and reservoirs used as commercial and recreational fisheries.
- b) To prevent the release of treated water into dugouts used for domestic and livestock water supplies.
- c) To notify downstream users of irrigation water and the public.

RESTRICTED USES-IRRIGATION AND DRAINAGE DITCHES: Apply 115 g in 2.5 to 5.0 litres per 100 square meters (11.25 kg per hectare). For irrigation ditches apply during the non-crop season, and when ditch is not in use. Best results are obtained when applied shortly before weed growth begins. Dense growth should be removed. Do not use when ground is frozen.

To minimize movement of DIUREX 80 WDG with irrigation water and avoid crop injury, it is essential that it be fixed in the treated soil by moisture. Apply before expected seasonal rainfall, if possible when soil in the ditch is still moist. If rainfall has not totalled at least 10 cm following treatment and before intended use of irrigation ditch, fill with water and allow to stand for 72 hours; drain off waste and remaining water before using ditch. Do not treat any ditch area into which roots of trees or other desirable plants may extend or in locations where the herbicide may be washed or moved into contact with the roots.

SELECTIVE USE IN CROPS

DIUREX 80WDG selectively controls weed seedlings such as crabgrass, foxtail, pigweed, ragweed, and lamb's-quarters. Any well established weeds should first be eliminated by mechanical or other means. The soil should be well prepared and free from trash and clods.

Surface of the soil should not be cultivated or disturbed after application as efficiency may be reduced and/or crop injury may result. Spray booms must be shut off while starting, turning, slowing, or stopping or injury to the crop may result.

GRAPES: Apply only to established vineyards (at least three years old) as a band application to grape rows. On light sandy soils (soils with only 1 to 2% clay or organic matter) use 2.25 to 3.25 kg per hectare (of area actually sprayed); on soils high in clay or organic matter, use 3.25 to 6.7 kg. Apply just prior to germination and growth of annual weeds, usually in the spring. It may be desirable to make a fall treatment or divide applications equally between fall and spring treatment. Do not exceed the above rates per year as injury may result.

In grapes, when a second application is performed, observe a minimum interval of 90 days between the first application and retreatment.

ASPARAGUS: Do not apply to newly seeded asparagus nor to young plants during the first growing season after setting nor on plants with exposed roots as severe injury may result. Apply as a band or broadcast treatment. On light sandy soil and other soils low in clay or organic matter, apply 1.1-2.25 kg per hectare. On soil high in clay or organic matter, use 2.25-4.5 kg per hectare. Two applications may be used. Make the first application before weeds become established, but no earlier than 4 weeks before spear emergence and no later than the early cutting period (if weeds are controlled into the cutting period by cultural practices, application may be delayed until immediately after the last cultivation). A second application may be made immediately following harvest if rain is expected. When two applications are used in one season, do not exceed 3.25 kg per hectare for application. If irrigation is used, make only a single treatment of 4.5 kg per hectare in late September or October.

SOIL LIMITATIONS: Do not use on sand, loamy sand, or gravelly soils with less than 1% organic matter as crop injury may result.

IMPORTANT: Do not replant treated areas to any crop within two years after last application as injury to subsequent crops may result. Do not use on dwarf or semi-dwarf plants.

BUFFER ZONES: The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, pastures, rangelands and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Use	Buffer Zones (m) Required for Protection of:		
		Aquatic Habitats at Water Depths of:		Terrestrial Habitats
		Less than 1 m	Greater than 1 m	
Field Sprayer ^a	Asparagus (medium spray) ^b	15	5	40
	Grapes (medium spray) ^b	15	10	55
	Non-crop areas (coarse spray) ^c	15	10	60 ^d

^a For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields.

When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy or ground, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy or ground, the labelled buffer zone can be reduced by 30%.

^b DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.

^c DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification.

^d Buffer zones for protection of terrestrial habitats are not required for applications to rights-of-way including railroad ballast, rail and hydro rights-of-way, utility easements and roads and training grounds on military bases.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Causes eye irritation. DO NOT get in eyes. May irritate nose, throat and skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. Harmful if swallowed. Wash hands before eating, drinking or smoking. Do not contaminate food or feed.

Wear long pants, a long-sleeved shirt, shoes plus socks, goggles or face shield, chemical-resistant gloves and a dust/mist respirator during mixing, loading, application, clean-up and repair activities. In addition, wear a chemical-resistant apron during mixing, loading, clean-up and repair activities. If applying from inside a closed cab, applicators must wear long pants, a long-sleeved shirt and shoes plus socks. When exiting the cab into the treated area, in addition to this protective equipment, applicators must wear chemical-resistant gloves and a dust/mist respirator. This protective clothing must be taken off before re-entering the cab and stored in a chemical-resistant container to prevent contamination of the inside of the cab.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours or until sprays have dried. Do not apply this product in a way that will cause this product to contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being

treated during application. Users should wash their hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

Do not apply (except as recommended for crop use), 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 sprays, dry powder and surface run-off from reaching desirable plants and their roots. Do not reuse container. Keep from contact with fertilizers, insecticides, fungicides and seeds. Do not contaminate any body of water. Thoroughly clean all traces of DIUREX 80 WDG from application equipment immediately after use; otherwise, crop injury may result when equipment is used again. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens. (Clean these parts separately).

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit the CropLife Canada's web site at: www.croplife.ca

ENVIRONMENTAL HAZARDS:

TOXIC to aquatic organisms and terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**. Do not apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs or wetlands) and estuarine/marine habitats. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured or low in organic matter such as clay). Avoid application of this product when heavy rain is forecast. The use of this chemical may result in contamination of groundwater, particularly in areas where soils are permeable (e.g. sandy soil) and/or where the depth to the water table is shallow.

FIRST AID

IF SWALLOWED: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.
IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

DECONTAMINATION AND DISPOSAL

Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.