

66222-171

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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 Reg. Number:

Date of Issuance:

66222-171

JAN 26 2010

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:

Mohave 70 EG Bareground Vegetation Control

Name and Address of Registrant (include ZIP Code):

Makhteshim Agan of North America, Inc.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609

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.

This product is reregistered in accordance with FIFRA section 4(g)(2)(C) provided you:

1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make all the following changes to the product label:
 - a. Due to the importance of resistance management to a long-term pest-management strategy, it is suggested that resistance management grouping symbols and statements be included on the labeling as described in PR Notice 2001-5.
 - b. Change the heading from "INERT INGREDIENTS" to "OTHER INGREDIENTS".
 - c. It is suggested that the Spanish statement on the front panel be changed to read "Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"
 - d. Under First Aid, change the heading to read "If on skin **or clothing**" and move the statement to below the "If swallowed" statement. The "If in eyes" and "If inhaled" statements are optional for this product.

Continued on Page 2

Signature of Approving Official:

Jim Tompkins
 Product Manager 25
 Herbicide Branch
 Registration Division (7505P)

Date:

JAN 26 2010

- e. Change the "If swallowed" First Aid statement to read as follows:
"If swallowed:
 - Call a poison control center or doctor **immediately** for treatment advice.
 - Have a person sip a glass of water if able to swallow.
 - Do not induce vomiting unless told to by a poison control center or doctor.
 - Do not give anything **by mouth** to an unconscious person."
- f. Change the heading to read "HAZARDS TO HUMANS AND DOMESTIC ANIMALS". Change the statement to read "CAUTION Harmful if swallowed or absorbed through skin. Avoid contact with skin or clothing."
- g. Change the PPE sentence to read "Some materials that are chemical-resistant to this product **are made of any waterproof material.**"
- h. Under the PPE for Pilots, flaggers, and groundboom applicators, add a third bullet with the statement "Groundboom applicators must also wear chemical-resistant gloves made of any waterproof material."
- i. Under the PPE for dust/mist respirator, remove the "N" filter designation since this product can be mixed with oils.
- j. Change the User Safety Recommendations statement to read "Wash hands with plenty of soap and water **after handling and** before eating, drinking, chewing gum, using tobacco, or using the toilet."
- k. Change the Environmental Hazards sentence to read "Do not contaminate water when cleaning equipment or disposing of equipment washwaters **or rinsate.**"
- l. Throughout the label, change the heading from "GENERAL INFORMATION" to "PRODUCT INFORMATION", as the term "general" renders all information contained within to be advisory and unenforceable.
- m. Make the following changes to the Spray Drift Management section:
 - i. Remove the first paragraph "The following information is provided as general guidance...vegetation management objective.", since there are specific spray drift requirements set forth in the imazapyr RED.
 - ii. Remove the fourth paragraph "To minimize spray drift, the applicator should be familiar...application of this product."
 - iii. Change the heading from "Managing spray drift from aerial applications" to "Spray drift requirements for aerial applications".
 - iv. Under spray drift requirements for aerial applications, add the sentence in bold to the following statement:

“...Applicators are required to use a Very Coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet; **Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size.**”

- v. Under Spray Drift Requirements for Aerial Applications, add the restriction “Do not apply by air if sensitive non-target crops are within 100 feet of the application site.” as per the diuron RED.
- vi. Change the heading from “Managing spray drift from ground boom applications” to “Spray drift requirements for ground boom applications”.
- n. On page 6 under Weeds Controlled, change the sentence to read “For established biennial and perennial vegetation control may be used by postemergence treatments of Mohave 70 EG.”
- o. On page 9 under Brush Species, provide a listing of brush species to substantiate the claim “controls more than 30 species of brush”.
- p. Change the Pesticide Disposal statement to read “Wastes resulting from the use of this product **must** be disposed of on site or at an approved waste disposal facility.”
- q. Under Container Handling, change the directions for Nonrefillable Container (flexible-bag-all weights) to read “Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state or local ordinances.”
- r. Under Container Handling, change the second Refillable Container sentence to read “Refill this container with **diuron and imazapyr** only.”
- s. On page 13, correct the sentence to read “For further information, please refer to EPA Web Site: <http://www.epa.gov/espp>.”

The basic confidential statement of formula (CSF) dated December 15, 2008 is acceptable.

A stamped copy of your label is enclosed for your records. You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after twelve (12) months from the date of this notice or the next printing of the label, whichever occurs first, must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Enclosed

MOHAVE 70 EG BAREGROUND VEGETATION CONTROL

ACTIVE INGREDIENTS:

Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid).....	7.78%
Diuron (3-[3,4-dichlorophenyl]-1, 1-dimethylurea).....	62.22%
INERT INGREDIENTS	30.00%
TOTAL	100.00%

**KEEP OUT OF REACH OF CHILDREN
CAUTION! /PRECAUCIÓN!**

ACCEPTED
with COMMENTS
in EPA Letter Dated

JAN 26 2010

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

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

Manufactured for:
Makhteshim Agan of North America, Inc.
4515 Falls of Neuse Rd., Suite 300
Raleigh, NC 27609

66222-171

EPA Reg. No. 66222-171

EPA Est. No. _____

NET WEIGHT: _____ LBS

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor for further treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to by a poison control center or doctor. • DO NOT give anything to an unconscious person.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • 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 center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact Prozar at 1-877-250-9291 for emergency medical treatment information.	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS**

CAUTION! Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing and wash before reuse.

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

All mixers, loaders, other applicators, and other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks
- Chemical-resistant gloves, made of any waterproof material, such as barrier laminate, butyl rubber or polyethylene
- A NIOSH-approved dust/mist filtering respirator with any N², R, P, or HE filter or a NIOSH approved dust/mist filtering respirator with approval number prefix TC-21C
- Chemical-resistant apron when mixing, loading, or cleaning equipment or spills

See engineering controls for additional requirements.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands with plenty of soap and water 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.

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 Worker Protection Standard 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.

ENVIRONMENTAL HAZARDS

This product is toxic to plants. Drift and runoff may be hazardous to plants in water adjacent to treated areas. **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. See Directions for Use for additional precautions and requirements.

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PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Mohave 70 EG** should be mixed, stored and applied only in stainless steel, fiberglass, plastic and plastic-lined steel containers.

DO NOT mix, store or apply **Mohave 70 EG** or spray solutions of **Mohave 70 EG** in unlined steel (except stainless steel) containers or spray tanks.

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 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.

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

GENERAL INFORMATION

Mohave 70 EG is a dispersible granule intended to be mixed with water and surfactant(s) for application to non-cropland areas such as railroad, utility, pipeline and highway rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, farmyards and around farm buildings, non-irrigation ditchbanks and other similar areas where bare ground is desired. **Mohave 70 EG** may also be used for weed control under paved surfaces.

When applied either preemergence or postemergence to weeds, **Mohave 70 EG** will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species and **Mohave 70 EG** will provide residual control of labeled weeds which germinate in the treated areas. For annual weed control, preferably apply **Mohave 70 EG** either at late preemergence-to-early postemergence for best results. For perennial weed control, **Mohave 70 EG** must be applied postemergence to the target weeds, since it will not control un-emerged perennial weeds. For maximum effect, weeds should be growing vigorously at the time of postemergence application and the spray solution should include a surfactant (See **ADJUVANTS** Section for recommendations.) **Mohave 70 EG** solutions may be broadcast by using ground or aerial equipment, or may be applied as a spot treatment by using low-volume techniques.

PRECAUTIONS FOR AVOIDING INJURY TO NON-TARGET PLANTS

Mohave 70 EG can occasionally affect non-target or untreated plants by root uptake of the herbicide. Injury or loss of non-target plants may result if **Mohave 70 EG** is applied onto or near desirable plants, or to areas where their roots extend, or in areas where treated soil may be washed or moved within their drip line.

Mohave 70 EG may injure or kill most desirable plants and crops. Avoid applications of **Mohave 70 EG** to powdery-dry soil or sand soils when there is little likelihood of rainfall soon after treatment, since subsequent off-target movement of treated soil by water and/or wind may cause damage to adjacent desirable plants or crops.

IMPORTANT

DO NOT use on food or feed crops. **DO NOT** treat irrigation ditches or water used for crop irrigation or for domestic purposes. Keep away from fertilizers, insecticides, fungicides and seeds. **DO NOT** drain or flush equipment on or near desirable plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved within their dripline. **DO NOT** use on lawns, walks, driveways, tennis courts or similar areas. **DO NOT** side trim desirable vegetation with this product. Exercise precautions to prevent spray drift onto desirable plants.

The maximum application rate per application in areas of high rainfall or dense vegetation is 12.0 pounds diuron active ingredient per acre. This is equivalent to 19.0 pounds **Mohave 70 EG** per acre. For all other areas, the maximum application rate per acre is 8.0 pounds diuron active ingredient per acre. This

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is equivalent to 13 pounds **Mohave 70 EG** per acre. Apply a maximum of two applications per year. Allow a minimum of 90 days between applications.

This product is NOT registered for use in California.

Clean application equipment after using this product by thoroughly flushing with water.

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 (WPS) 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.

Noncrop weed control is not within the scope of the Worker Protection Standard. See the GENERAL INFORMATION section of this label for a description of noncrop sites.

DO NOT enter or allow others to enter treated areas until sprays have dried.

SPRAY DRIFT MANAGEMENT

The following information is provided as general guidance for managing spray drift. Specific use recommendations for **Mohave 70 EG** may differ, depending on the application technique used and the vegetation management objective.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **WIND, TEMPERATURE AND HUMIDITY, AND TEMPERATURE INVERSIONS**, below).

Controlling Droplet Size:

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** – Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.

- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift. **DO NOT** use nozzles producing a mist droplet spray.

Application Height: Making applications at the lowest possible height (aircraft, ground driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind: Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during inversion. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion: Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Aerial Application Methods and Equipment: Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated areas and to avoid spray drift.

Managing spray drift from aerial applications: Applicators are required to use a Coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater for release heights below 10 feet. Applicators are required to use a Very Coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet. Applicators must follow these requirements to avoid off-target drift movement: 1) boom length – the distance of the outermost nozzles on the boom must not exceed 60% the length of the wingspan or 90% of the rotor blade diameter, 2) nozzle orientation – nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees, and 3) application height – without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants; 4) applicators must use upwind swath displacement; 5) applications into temperature inversions are prohibited; 6) do not apply with wind speeds less than 3 mph and with wind speeds greater than 10 mph. Applicators must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Ground Application (Broadcast): Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Managing spray drift from ground boom applications: Applicators are required to use a nozzle height below 4 feet above the ground or plant canopy and Coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater.

Applications with wind speeds greater than 10 mph are prohibited.

Applications into temperature inversions are prohibited.

WEEDS CONTROLLED BY MOHAVE 70 EG

When used as directed, **Mohave 70 EG** provides preemergence or postemergence control with residual control of the weed species listed below. Annual weeds may be controlled by preemergence or postemergence applications of **Mohave 70 EG**. For established biennial and perennial vegetation control, postemergence treatments of **Mohave 70 EG** are recommended.

The length of residual weed control is dependent upon the weed spectrum present, the rate applied, and weather conditions. Residual control can be extended in areas with susceptible weed species, higher **Mohave 70 EG** use rates, lower precipitation and cooler soil temperatures. Residual control may be diminished when higher than average rainfall occurs.

Resistant Biotypes: Some weeds listed below may have naturally-occurring biotypes (plants within a given species that have a slightly different but distinct genetic makeup from other plants of that species) that are not effectively controlled by this and/or other herbicides (**Oust**®) with the ALS/AHAS enzyme-inhibiting mode of action. If naturally-occurring ALS/AHAS-resistant biotypes are present in an area, **Mohave 70 EG** should be tank-mixed or applied sequentially with a registered herbicide that depends on a different mode of action to ensure control.

WEEDS CONTROLLED¹

GRASSES

COMMON NAME	SPECIES	GROWTH HABIT²
Annual bluegrass	(<i>Poa annua</i>)	A
Annual ryegrass	(<i>Lolium multiflorum</i>)	A
Annual sweet vernalgrass	(<i>Anthoxanthum odoratum</i>)	A
Bahiagrass ⁷	(<i>Paspalum notatum</i>)	P
Barnyardgrass	(<i>Echinochloa crusgalli</i>)	A
Beardgrass	(<i>Andropogon</i> spp.)	P
Bermudagrass ^{7,8,9}	(<i>Cynodon dactylon</i>)	P
Big bluestem ⁷	(<i>Andropogon gerardii</i>)	P
Broadleaf signalgrass	(<i>Brachiaria platyphylla</i>)	A
Canada bluegrass	(<i>Poa compressa</i>)	P
Cattail	(<i>Typha</i> spp.)	P
Cheat	(<i>Bromus secalinus</i>)	A
Cogongrass	(<i>Imperata cylindrica</i>)	P
Crabgrass	(<i>Digitaria</i> spp.)	A
Dallisgrass ⁷	(<i>Paspalum dilatatum</i>)	P
Downy brome	(<i>Bromus tectorum</i>)	A
Fall panicum	(<i>Panicum dichotomiflorum</i>)	A
Feathertop	(<i>Pennisetum villosum</i>)	P
Fescue	(<i>Festuca</i> spp.)	A/P
Foxtail	(<i>Setaria</i> spp.)	A
Goosegrass	(<i>Eleusine indica</i>)	A
Guineagrass	(<i>Panicum maximum</i>)	P
Italian ryegrass	(<i>Lolium multiflorum</i>)	A
Johnsongrass	(<i>Sorghum halepense</i>)	P
Kentucky bluegrass	(<i>Poa pratensis</i>)	P
Kyllinga	(<i>Cyperus brevifolius</i>)	A
Lovegrass	(<i>Eragrostis</i> spp.)	A/P
Maidencane	(<i>Arundinaria amabilis</i>)	P
Orchardgrass	(<i>Dactylis glomerata</i>)	P
Paragrass	(<i>Brachiaria mutica</i>)	P
Peppergrass	(<i>Lepidium virginicum</i>)	A
Phragmites	(<i>Phragmites australis</i>)	P
Prairie cordgrass	(<i>Spartina pectinata</i>)	P
Prairie threeawn	(<i>Aristida oligantha</i>)	P
Quackgrass	(<i>Agropyron repens</i>)	P
Rattail fescue	(<i>Vulpia myuros</i>)	A
Reed canarygrass	(<i>Phalaris arundinacea</i>)	P
Ricegrass	(<i>Oryzopsis hymenoides</i>)	A
Saltgrass ^{7,8,9}	(<i>Distichlis stricta</i>)	P
Sand dropseed ⁷	(<i>Sporobolus cryptandrus</i>)	P
Sandbur	(<i>Cenchrus</i> spp.)	A
Smooth brome	(<i>Bromus inermis</i>)	P
Sprangletop ^{6,7}	(<i>Leptochloa</i> spp.)	A
Timothy	(<i>Phleum pratense</i>)	P
Torpedograss	(<i>Panicum repens</i>)	P
Vaseygrass	(<i>Paspalum urvillei</i>)	P
Velvetgrass	(<i>Holcus lanatus</i>)	A
Wild barley	(<i>Hordeum</i> spp.)	A
Wild oats	(<i>Avena fatua</i>)	A
Wirestem muhly	(<i>Muhlenbergia frondosa</i>)	P

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Witchgrass (Panicum capillare) A

BROADLEAF WEEDS¹

Arrowwood	(Pluchea sericea)	A
Ageratum	(Asteraceae houstonianum)	P
Broom snakeweed ³	(Gutierrezia sarothrae)	P
Bull thistle	(Cirsium vulgare)	B
Burdock	(Arctium spp.)	B
Canada thistle ⁷	(Cirsium arvense)	P
Carolina geranium	(Geranium carolinianum)	A
Carpetweed	(Mollugo verticillata)	A
Clover	(Trifolium spp.)	A/P
Cocklebur	(Xanthium strumarium)	A
Common chickweed	(Stellaria media)	A
Common ragweed	(Ambrosia artemisiifolia)	A
Corn spurry	(Spergula arvensis)	P
Dandelion	(Taraxacum officinale)	P
Dayflower	(Commelina spp.)	A/P
Desert Camelthorn	(Alhagi pseudalhagi)	P
Diffuse knapweed	(Centaurea diffusa)	A
Dock	(Rumex spp.)	P
Dogfennel	(Eupatorium capillifolium)	A
Filaree	(Erodium spp.)	A
Fleabane	(Erigeron spp.)	A
Giant ragweed ⁷	(Ambrosia trifida)	A
Goldenrod	(Solidago spp.)	P
Grey rabbitbrush	(Chrysothamnus nauseosus)	P
Gromwell	(Lithospermum spp.)	A
Groundcherry	(Physalis spp.)	A/P
Hawksbeard	(Crepis spp.)	A
Hoary vervain	(Verbena stricta)	P
Horsenettle	(Solanum carolinense)	P
Horseweed	(Conyza canadensis)	A
Indian mustard	(Brassica juncea)	A
Japanese bamboo	(Polygonum cuspidatum)	P
Knawel	(Scleranthus annuus)	A
Kochia ³	(Kochia scoparia)	A
Lambsquarters	(Chenopodium album)	A
Lespedeza	(Lespedeza spp.)	P
Little mallow	(Malva parviflora)	B
Marigold	(Tagetes spp.)	P
Milkweed	(Asclepias spp.)	P
Miners lettuce	(Montia perfoliata)	A
Morningglory	(Ipomoea spp.)	A/P
Mullein	(Verbascum spp.)	B
Nettleleaf goosefoot	(Chenopodium murale)	A
Oxeye daisy	(Chrysanthemum leucanthemum)	P
Pennycress	(Thlaspi spp.)	A
Pepperweed	(Lepidium spp.)	A
Pigweed ⁸	(Amaranthus spp.)	A
Pineapple weed	(Matricaria matricarioides)	P
Plantain	(Plantago spp.)	P
Pokeweed	(Phytolacca americana)	P
Prickly sida	(Sida spinosa)	A
Primrose	(Oenothera kunthiana)	P

Puncturevine	(<i>Tribulus terrestris</i>)	A
Purple loosestrife ³	(<i>Lythrum salicaria</i>)	P
Purslane	(<i>Portulaca</i> spp.)	A
Ragweed	(<i>Ambrosia</i> spp.)	A
Rush skeletonweed ³	(<i>Chondrilla juncea</i>)	B
Russian knapweed	(<i>Centaurea repens</i>)	P
Russian thistle ³	(<i>Salsola kali</i>)	A
Saltbush	(<i>Atriplex</i> spp.)	A
Sesbania	(<i>Sesbania</i> spp.)	A
Sicklepod	(<i>Cassia obtusifolia</i>)	A
Silverleaf nightshade	(<i>Solanum elaeagnifolium</i>)	P
Shepherd's-purse	(<i>Capsella bursa-pastoris</i>)	A
Smartweed	(<i>Polygonum</i> spp.)	A/P
Sorrell	(<i>Rumex</i> spp.)	P
Sowthistle	(<i>Sonchus</i> spp.)	A
Speedwell	(<i>Veronica</i> spp.)	A
Stinging nettle ³	(<i>Urtica dioica</i>)	P
Sunflower	(<i>Helianthus</i> spp.)	A
Sweet clover	(<i>Melilotus</i> spp.)	A/B
Tansymustard	(<i>Descurainia pinnata</i>)	A
Texas thistle	(<i>Cirsium texanum</i>)	P
Velvetleaf	(<i>Abutilon theophrasti</i>)	A
Western ragweed	(<i>Ambrosia psilostachya</i>)	P
Wild buckwheat	(<i>Polygonum convolvulus</i>)	A
Wild carrot	(<i>Daucus carota</i>)	B
Wild lettuce	(<i>Lactuca</i> spp.)	A/B
Wild parsnip	(<i>Pastinaca sativa</i>)	B
Wild radish	(<i>Raphanus raphanistrum</i>)	B
Wild turnip	(<i>Brassica campestris</i>)	B
Woollyleaf bursage	(<i>Franseria tomentosa</i>)	P
Yellow starthistle	(<i>Centaurea solstitialis</i>)	A
Yellow woodsorrel	(<i>Oxalis stricta</i>)	P

VINES AND BRAMBLES¹

Blackberry ⁴	(<i>Rubus</i> spp.)	P
Dewberry ⁴	(<i>Rubus</i> spp.)	P
Field bindweed	(<i>Convolvulus arvensis</i>)	P
Greenbriar	(<i>Smilax</i> spp.)	P
Hedge bindweed	(<i>Calystegia sepium</i>)	A
Honeysuckle	(<i>Lonicera</i> spp.)	P
Kudzu ⁵	(<i>Pueraria lobata</i>)	P
Morningglory	(<i>Ipomoea</i> spp.)	A/P
Poison ivy	(<i>Rhus radicans</i>)	P
Redvine	(<i>Brunnichia cirrhosa</i>)	P
Trumpetcreeper ⁷	(<i>Campsis radicans</i>)	P
Virginia creeper ⁷	(<i>Parthenocissus quinquefolia</i>)	P
Wild buckwheat	(<i>Polygonum convolvulus</i>)	P
Wild grape	(<i>Vitis</i> spp.)	P
Wild rose	(<i>Rosa</i> spp.)	P

BRUSH SPECIES¹

Mohave 70 EG controls more than 30 species of brush.

¹ The higher rates should be used where heavy or well established infestations occur.

- ² Growth Habit – A = Annual, B = Biennial, P = Perennial.
- ³ For best results, early postemergence applications are required.
- ⁴ Control is species dependent. Some Rubus species may not be completely controlled.
- ⁵ Use a minimum of 75 GPA – Control of established stands may require repeat applications.
- ⁶ Control is species dependent. A tank-mix with PENDULUM herbicide for preemergence control and/or a postemergence application of a labeled herbicide may be required.
- ⁷ Use at least 13 pounds **Mohave 70 EG** per acre.
- ⁸ For best results, tank-mix with Oust.
- ⁹ Control of established stands may require repeat applications.

ADJUVANTS

Always use a spray adjuvant for postemergence applications of Mohave 70 EG.

Nonionic Surfactants: Use a nonionic surfactant at the rate 0.25% v/v or higher of the total spray volume (0.25% v/v is equivalent to 1 quart in 100 gallons) in accordance with the surfactant labeling. For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with at least 70% surfactant in the formulated product. Alcohols, fatty acids, horticultural spray oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet these requirements.

Methylated Seed Oils or Vegetable Oil Concentrates: To aid in **Mohave 70 EG** deposition and uptake by plants under moisture or temperature stress, methylated seed oil or vegetable oil concentrate may be used at 1.5 to 2 pints per acre. When using spray volumes greater than 30 gallons per acre, mix methylated seed oil or vegetable oil concentrate at a rate of 1% of the total spray volume or alternatively use a nonionic surfactant as described above. Methylated seed oil is the adjuvant of choice for enhanced control of perennial weeds.

Silicone-Based Surfactants: Silicone-based surfactants allow greater spreading of the spray droplet on the leaf surface, compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly, limiting herbicide uptake. Refer to the surfactant manufacturer's label for specific recommendations.

Fertilizer/Surfactant Blends: Nitrogen-based liquid fertilizers such as 28% N, 32% N, 10-34-0, or ammonium sulfate may be used with **Mohave 70 EG** at 2 to 3 pints per acre in combination with the recommended rate of nonionic surfactant, methylated seed oil or vegetable oil concentrate. Tank mixes with nitrogen-based fertilizers without a nonionic surfactant, methylated seed oil or vegetable oil concentrate is not recommended.

APPLICATION INSTRUCTIONS

Mohave 70 EG effectively controls many annual weeds when applied either preemergence or postemergence, as well as many perennial weeds when applied postemergence (See the **WEEDS CONTROLLED** Section for a list of susceptible weeds).

Mix **Mohave 70 EG** as described above and apply with properly calibrated equipment to uniformly deliver the desired spray volume to the treatment area. Maintain adequate agitation during application to keep **Mohave 70 EG** suspended in spray mixture.

Apply **Mohave 70 EG** at 7 to 19 pounds of product per acre. Rates as low as 5 pounds of **Mohave 70 EG** per acre may be used, but must be tank mixed with another herbicide (see **TANK MIXES** Section below). For retreatment within the same growing season, use less than 7 pounds **Mohave 70 EG** per acre. **DO NOT** apply more than a total of 19 pounds **Mohave 70 EG** per acre in a 12 month period.

The maximum application rate per application in areas of high rainfall or dense vegetation is 12.0 pounds diuron active ingredient per acre. This is equivalent to 19.0 pounds **Mohave 70 EG** per acre. For all other areas, the maximum application rate per acre is 8.0 pounds diuron active ingredient per acre. This is equivalent to 13 pounds **Mohave 70 EG** per acre. Apply a maximum of two applications per year. Allow a minimum of 90 days between applications.

The length of residual weed control achieved with **Mohave 70 EG** may be significantly affected by rainfall amounts. To achieve the desired residual control with increasing rainfall amounts, higher rates of **Mohave 70 EG** should be applied. As a general guideline the **Mohave 70 EG** rates listed below are recommended for different annual rainfall amounts. Actual use rates will vary depending upon the length of residual control desired, weed pressure and environmental conditions.

Average Annual Rainfall In Inches	Rate of Mohave 70 EG / Acre
Less than 15 inches	*7-10 pounds of product
Between 15 and 35 inches	8-13 pounds of product
Greater than 35 inches	13-19 pounds of product

*For initial applications, apply **Mohave 70 EG** at 5 to 6 pounds per acre in combination with another herbicide (see **TANK MIXES** Section below).

Postemergence Applications: Always use a spray adjuvant (See **ADJUVANTS** Section of this label) in postemergence applications. For optimum performance on hard-to-control perennial weeds, apply 100 gallons per acre or less in combination with 1 quart per acre of methylated seed oil. For quicker burndown of target weeds, tank mix **Mohave 70 EG** with products such as Roundup® or Finale® (See **TANK MIXES** Section below for other product recommendations).

Spot Treatments: **Mohave 70 EG** may be used as a follow-up treatment to control escapes or weed encroachment in a bareground situation. To prepare the spray solution, thoroughly mix 0.5 to 1 pound of **Mohave 70 EG** plus an adjuvant in each gallon of water. **DO NOT** exceed 19 pounds **Mohave 70 EG** per acre in a 12 month period. For increased burndown, tank mix with Roundup, Finale, or similar products (See **TANK MIXES** Section below for other product recommendations).

TANK MIXES

Mohave 70 EG may be tank-mixed with Roundup, Karmex® (Diuron), Oust, Garlon®, Finale, MSMA, Banvel®, Vanquish®, PENDULUM, PLATEAU® or ARSENAL®. Tank-mixes with 2,4-D or products that contain 2,4-D, may reduce perennial weed control.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank-mixes.

**FOR CONTROL OF UNDESIRABLE WEEDS
UNDER PAVED SURFACES**

Mohave 70 EG can be used under asphalt, pond liners and other paved areas, but **ONLY** in industrial sites or where the pavement has a suitable barrier along the perimeter that prevents encroachment of roots of desirable plants.

Mohave 70 EG should only be used where the area to be treated has been prepared according to good construction practices. Before application of **Mohave 70 EG**, rhizomes, stolons, tubers or other vegetative plant parts should be removed from the treatment site by scalping with a grader blade to a depth sufficient to insure their complete removal.

IMPORTANT: Paving should follow **Mohave 70 EG** applications as soon as possible. **DO NOT** apply where the chemical may contact the roots of desirable trees or other plants.

This product is not recommended for use under pavement on residential properties such as driveways or parking lots, nor in recreational areas such as under bike or jogging paths, golf cart paths, or tennis courts, or where landscape plantings could be anticipated. Injury or death of desirable plants may result if this product is applied where roots are present or where they may extend into the treated area. **NOTE**

that roots of trees and shrubs may extend a considerable distance beyond the branch extremities; i.e., drip line.

APPLICATION DIRECTIONS FOR PAVED SURFACES:

Applications should be made to the soil surface only when final grade is established. **DO NOT** move soil following **Mohave 70 EG** application.

The maximum application rate per application in areas of high rainfall or dense vegetation is 12.0 pounds diuron active ingredient per acre. This is equivalent to 19.0 pounds **Mohave 70 EG** per acre. For all other areas, the maximum application rate per acre is 8.0 pounds diuron active ingredient per acre. This is equivalent to 13 pounds **Mohave 70 EG** per acre. Apply a maximum of two applications per year. Allow a minimum of 90 days between applications.

Apply **Mohave 70 EG** in at least 100 gal. water per acre to ensure thorough and uniform wetting of the soil surface, including the shoulder areas. Prepare spray solution by thoroughly mixing **Mohave 70 EG** into clean water in the spray tank and agitate solution to maintain product suspension.

If the soil is not moist before treatment, **Mohave 70 EG** should be incorporated into the soil to a depth of 4 to 6 inches using a rototiller or disc. Rainfall or irrigation of 1 inch will also provide adequate incorporation. **DO NOT** allow treated soil to wash or move from treated areas into untreated areas.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: DO NOT store below 10°F.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable Container (flexible-bag-all weights): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. [Maintain any current S&D language that is currently on the label.]

Nonrefillable Container (rigid-fifty lbs. or less): 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 the container ¼ 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.

Nonrefillable Container (rigid-greater than fifty lbs.): 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 the container ¼ 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.

Refillable Container: Refillable container. Refill this container with imazapyr 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 percent 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.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE), CALL INFOTRAC AT 1-800-535-5053.

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 vs. EPA, C01-132C (W.D. WA.) For information, please refer to www.epa.gov/espp/wtcf/.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES, and LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, 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 Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.

- ® Roundup is a registered trademark of Monsanto Company.
- ® Finale is a registered trademark of Bayer.
- ® Karmex and Oust are registered trademarks of E.I. DuPont de Nemours and Company.
- ® Garlon is a registered trademark of Dow AgroSciences Company.
- ® Arsenal, Banvel, Pendulum and Plateau are registered trademarks of BASF.
- ® Vanquish is a registered trademark of Syngenta.

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