



**ARSENAL® 5-G herbicide**  
**For Use In Noncrop Areas**

**ACTIVE INGREDIENT:**

Imazapyr (2-4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl-3-pyridinecarboxylic acid)..... 5.0%

INERT INGREDIENTS..... 95.0%

TOTAL.....100.0%

EPA Reg. No. 241-

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION!**

**See Other Pages for Additional Precautionary Statements**

**PRECAUCION**

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

In case of an emergency endangering life or property involving this product, call collect, day or night, Area Code 201-835-3100

Net Contents: 50 pounds  
 (22.68 Kilograms)

AMERICAN CYANAMID COMPANY  
 AGRICULTURAL DIVISION  
 VPC VENTURES  
 WAYNE, NEW JERSEY 07470

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

CAUTION!

Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

PHYSICAL AND CHEMICAL HAZARDS

ARSENAL granules should be mixed and stored only in lined paper bags, stainless steel, fiberglass, plastic and plastic-lined steel containers.

DO NOT mix or store ARSENAL granules in unlined steel (except stainless steel) containers.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to any body of water. DO NOT contaminate water by cleaning equipment or disposal of waste.

IMPORTANT

DO NOT use on food or feed crops. DO NOT apply on ditches used to transport irrigation water. DO NOT apply where runoff or irrigation water may flow onto agricultural land as injury to crops may result. Keep from contact with fertilizers, insecticides, fungicides and seeds. DO NOT apply 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. DO NOT use in California.

GENERAL INFORMATION

ARSENAL herbicide 5-G is applied for control of most annual and perennial grasses and broadleaf weeds.

ARSENAL herbicide 5-G is readily absorbed through the roots and is translocated rapidly throughout the plant, with accumulation in the meristematic regions. Treated plants stop growing soon after spray application. Chlorosis appears first in the newest leaves, and necrosis spreads from this point. In perennials, the herbicide is translocated into and kills underground storage organs, thus preventing regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species until two weeks after application. Complete kill of plants may not occur for several weeks.

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use of application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company warrants only that the material contained herein confirms to the chemical description on the label and is reasonable fit for the use therein described when used in accordance with the directions of use, subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values of any other special or indirect damages.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

**DIRECTIONS FOR USE**

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

A preemergence application of ARSENAL granular is recommended for control of most annual and perennial grasses and broadleaf weeds on noncropland areas such as railroad, utility, pipeline and highway rights-of-way, petroleum tank farms, pumping installations, fence rows, storage areas, and other similar areas. ARSENAL granular may be applied anytime during the growing season before weeds have emerged.

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**STORAGE AND DISPOSAL**

- PROHIBITIONS:** DO NOT store below 10°F. DO NOT contaminate water, food or feed by storage or disposal.
- PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
- CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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**APPLICATION INSTRUCTIONS**

Uniformly apply ARSENAL granules with properly calibrated aerial or ground equipment at a rate of 20 lbs/A (1.0 lbs. A.E. of product per acre).

A preemergent application of ARSENAL herbicide will provide residual control of the following target vegetation species.

GRASSES

- Annual bluegrass (Poa annua)
- Bahiagrass (Paspalum notatum)
- Beardgrass (Andropogon spp.)
- Bermudagrass (Cynodon dactylon)
- Big bluestem (Andropogon gerardi)
- Broadleaf signalgrass (Brachiaria platphylla)
- Canada bluegrass (Poa compressa)
- Cattail (Typha spp.)
- Cheat (Bromus secalinus)
- Crabgrass (Digitaria spp.)
- Dallisgrass (Paspalum dilatatum)
- Downy brome (Bromus tectorum)
- Fall panicum (Panicum dichotomiflorum)
- Fescue (Festuca spp.)
- Foxtail (Setaria spp.)
- Goosegrass (Eleusine indica)
- Guineagrass (Panicum maximum)
- Italian ryegrass (Lolium multiflorum)
- Johnsongrass (Sorghum halepense)
- Kentucky bluegrass (Poa pratensis)
- Lovegrass (eragrostis spp.)
- Orchardgrass (Cactylis glomerata)
- Paragrass (Brachiaria mutica)
- Prairie cordgrass (Spartina pectnata)
- Prairie threeawn (Aristida oligantha)
- Quackgrass (Agropyron repens)
- Sandbur (Cenbchrus spp.)
- Sand dropseed (Sporobolus cyptandrus)
- Smooth brome (Bromus inermis)
- Timothy (Phleum pratense)
- Torpedograss (Ponicum repens)
- Vaseygrass (Paspalum urvillei)
- Wild barley (Hordeum spp.)
- Wild oats (Avena fatua)
- Wirestem muhly (Muhlenbergia frondosa)
- Witchgrass (Panicum capillare)

BROADLEAF WEEDS

- Bull thistle (Cirsium vulgare)
- Burdock (Arctium spp.)

- Camphorweed (Heterotheca subzillaris)
- Canada thistle (Cirsium arvense)
- Carpetweed (Mullugo verticillata)
- Carolina geranium (Geranium carolinianum)
- Clover (Trifolium spp.)
- Cocklebur (Xanthium strumarium)
- Common chickweed (Stellaria media)
- Common ragweed (Ambrosia artemisiifolia)
- Dandelion (Taraxacum officinale)
- Dock (Rumex spp.)
- Dogfennel (Eupatorium capillifolium)
- Filaree (Erodium spp.)
- Fleabane (Erigeron spp.)
- Giant ragweed (Ambrosia trifida)
- Hoary vervain (Verbena stricta)
- Horseweed (Conyza canadensis)
- Indian mustard (Brassica juncea)
- Kochia (Kochia scoparia)
- Lambsquarters (Chenopodium album)
- Lespedeza (Lespedeza spp.)
- Little mallow (Malvapar viflora)
- Milkweed (Asclepias spp.)
- Miners lettuce (Montia perfoliata)
- Mullein (Verbascum spp.)
- Nettleleaf goosefoot (Chenopodium murale)
- Oxeye daisy (Chrysanthemum leucanthemum)
- Pepperweed (Lepidium spp.)
- Pigweed (Amaranthus spp.)
- Plantain (Plantago spp.)
- Pokeweed (Phytolacca americana)
- Primrose (Oenothera kunthiana)
- Purslane (Portulaca spp.)
- Silverleaf nightshade (Solanum elaeagnifolium)
- Smartweed (Ploygonum spp.)
- Sorrel (Rumex spp.)
- Sowthistle (Sonchus spp.)
- Sunflower (Helianthus spp.)
- Sweet clover (Melilotus spp.)
- Tansymustard (Descurainia pinnata)
- Texas thistle (Cirsium texanum)
- Western ragweed (Ambrosia psilostachya)
- Wild carrot (Caucus carota)
- Wild lettuce (Lactuca spp.)
- Wild parsnip (Pastinaca sativa)
- Wild turnip (Brassica campestris)
- Woolyleaf bursage (Ambrosia grayi)
- Yellow starthistle (Centaurea solstitialis)
- Yellow woodsorrel (Oxalis stricta)