

PM-23

Reg # 2217-703

127

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

Registration
Amendment
☒ Other

OPP Identifier Number

243511

Application for Pesticide - Section I

1. Company/Product Number 2217-703	2. EPA Product Manager Joanne I Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Acme Hi-Dep® Herbicide	PM# (PM 23)	
5. Name and Address of Applicant (Include ZIP Code) PBI/Gordon Corporation P.O. Box 014090 1217 West 12th Street Kansas City, MO 64101 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION

SEP 4 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Minor Labeling Revisions & Final Printed Labeling per PRN 95-2: PBI intends to present a subset of the Directions for Use of the previously approved text for the industrial/noncropland sites under the additional brand name of "Hi-Dep® IVM Broadleaf Herbicide" with the logo of Gordon's Industrial Vegetation Management Products. Sites, weed species, methods of application, & dosage rates were previously approved & all Precautionary Statements have been maintained without revision. The format of the sublabel complies with PRN 93-11, Supplement G, "WPS Statements on Sublabels With No In-Scope Uses." Two (2) copies final printed labels are being submitted. Please pin-punch one container label and the supplemental labeling and return to satisfy state registration requirements.

done. del

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name James A. Armbruster, Ph.D	Title Vice President, Regulatory Services	Telephone No. (Include Area Code) (816) 421-4070	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature <i>J. A. Armbruster</i>	3. Title Vice President, Regulatory Services		
4. Typed Name James A. Armbruster, Ph.D	5. Date September 19, 1996		



HI-DEP® IVM

BROADLEAF HERBICIDE

*Especially formulated for low volume applications
with aerial and ground equipment.*

ACTIVE INGREDIENTS:

Dimethylamine Salt of
2,4-Dichlorophenoxyacetic acid..... 33.2%
Diethanolamine Salt of
2,4-Dichlorophenoxyacetic acid..... 16.3%

INERT INGREDIENTS..... 50.5%
TOTAL 100.0%

This Product Contains:

3.8 lbs. 2,4-Dichlorophenoxyacetic acid equivalent per gallon
or 38.6%.

Isomer Specific by AOAC Methods.

808/996

**KEEP OUT OF REACH
OF CHILDREN**

**DANGER-
PELIGRO**

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.)

See back panel for additional
Precautionary Statements and
Statement of Practical Treatment.

NET CONTENTS 2½ U.S. GALLONS (9.46 liters)

Engineering Control Statements:

Containers over 1 gallon and less than 5 gallons in capacity: Mixers and loaders who do not use a mechanical system (probe and pump) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to the other required PPE.

Containers of 5 gallons or more in capacity: Do not open pour from this container. A mechanical system (probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

When handlers use enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

Statement of Practical Treatment

IF IN EYES: In case of eye contact, immediately flush eyes with plenty of water for 15 minutes. Call a physician at once.

IF ON SKIN: Wash promptly with soap and water. Rinse thoroughly. If irritation develops, get medical attention.

IF SWALLOWED: Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. Call a physician at once.

IF INHALED: Remove victim to fresh air and apply respiration if indicated.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS: Under no circumstances should this herbicide product or any 2,4-D weed killer be used in the vicinity of cotton, tomatoes, garden crops, grapes, ornamentals or other susceptible crops, or severe damage may result. Do not apply on windy days. Do not use equipment used in applying this product or any 2,4-D weed

for any requirements specific to your state, consult the agency responsible for pesticide regulation.

Non-Agricultural Use Requirements:

The requirements in this box apply to use 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.

Reentry statement for residential and other turf sites excluding sod farms: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until spray has dried or dust has settled.

STORAGE & DISPOSAL

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

STORAGE: Store in original container in a locked storage area inaccessible to children or pets. Keep from freezing.

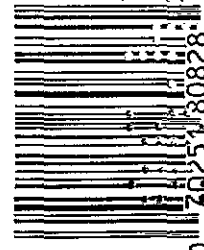
PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed, by state and local authorities, by burning. If burned, stay out of smoke.

HI-DEP® IVM is a registered trademark of
PBI/Gordon Corporation.

808/996 AP080296
EPA REG. NO. 2217-703
EPA EST. NO. 2217-KS-1

MANUFACTURED BY
G pbi/gordon
CORPORATION
KANSAS CITY, MISSOURI 64101





HI-DEP[®] IVM

BROADLEAF HERBICIDE

*Especially formulated for low volume applications
with aerial and ground equipment.*

808/996 AP080296
EPA REG. NO. 2217-703

MANUFACTURED BY
G pbi / Gordon
corporation
KANSAS CITY, MISSOURI 64101

HI-DEP[®] IVM consists of the dimethylamine and diethanolamine salts of 2,4-D especially formulated for low volume applications with aerial and ground equipment.

ACTIVE INGREDIENTS:

Dimethylamine Salt of
2,4-Dichlorophenoxyacetic acid 33.2%
Diethanolamine Salt of
2,4-Dichlorophenoxyacetic acid 16.3%

INERT INGREDIENTS 50.5%
TOTAL 100.0%

This Product Contains:

3.8 lbs. 2,4-Dichlorophenoxyacetic acid equivalent per
gallon or 38.6%.

Isomer Specific by AOAC Methods.

**KEEP OUT OF REACH
OF CHILDREN
DANGER-
PELIGRO**

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.)

See below for additional Precautionary
Statements and Statement of Practical Treatment.



**READ THE ENTIRE LABEL FIRST.
OBSERVE ALL PRECAUTIONS AND
FOLLOW DIRECTIONS CAREFULLY.**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals:

DANGER: Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapor or spray mist.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

Engineering Control Statements:

Containers over 1 gallon and less than 5 gallons in capacity: Mixers and loaders who do not use a mechanical system (probe and pump) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to the other required PPE.

Containers of 5 gallons or more in capacity: Do not open pour from this container. A mechanical system (probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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Statement of Practical Treatment

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IF INHALED: Remove victim to fresh air and apply respiration if indicated.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS: Under no circumstances should this herbicide product or any 2,4-D weed killer be used in the vicinity of cotton, tomatoes, garden crops, grapes, ornamentals or other susceptible crops, or severe damage may result. Do not apply on windy days. Do not use equipment used in applying this product or any 2,4-D weed killer to apply insecticides, fungicides, or other material to susceptible crops. Do not use this product through any type of irrigation system. Avoid contamination of water supplies that may be used to irrigate or water susceptible crops, or to be used for domestic purposes.

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from treated areas. Do not apply in any manner not specified on this label.

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This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from treated areas. Do not apply in any manner not specified on this label.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

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, consult the agency responsible for pesticide regulation.

Non-Agricultural Use Requirements:

The requirements in this box apply to use 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.

Reentry statement for residential and other turf sites excluding sod farms: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until spray has dried or dust has settled.

STORAGE & DISPOSAL

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

STORAGE: Store in original container in a locked storage area inaccessible to children or pets. Keep from freezing.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. 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: For plastic container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed, by state and local authorities, by burning. If burned, stay out of smoke. For metal drums: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

PRECAUTION FOR PAINTS AND COATINGS OF AUTOMOBILES AND OTHER VEHICLES: Undiluted spray droplets may damage the paint, coating, or finish of vehicles. Vehicles should not be sprayed. If accidental exposure does occur, then the vehicle should be washed before the spray droplets dry.

NOTICE TO USER: This product must be applied in compliance with the pesticide regulations of the state in which application is made. Check with local authorities regarding regulations which may affect the application of this product.

USE INSTRUCTIONS

HI-DEP® IVM consists of the dimethylamine and diethanolamine salts of 2,4-D especially formulated for low volume applications with aerial and ground equipment.

AERIAL APPLICATION: Ready-To-Use, not necessary to dilute for application rates of 1/2 gallon (2 quarts) per acre or higher. For rates lower than 1/2 gallon, dilute with water for total solution per acre of not less than 1/2 gallon.

AIRCRAFT SPECIFICATIONS (FIXED WING OR ROTARY WING): Boom width should not exceed 3/4 the length of the aircraft wingspan. Do not exceed 25 psi nozzle pressure. Number of nozzles required to obtain desired volume per acre is dependent on swath width and speed of aircraft. Nozzles should be positioned between 135° and 175° from direction of flight for fixed wing. DO NOT APPLY THROUGH BECO-MIST NOZZLE SYSTEMS. Maintain aircraft altitude of 10 to 12 feet during application. See manufacturer's technical bulletin regarding nozzles and method of application specifications.

GROUND APPLICATION: Apply in water, 1 to 50 gallons total solution per acre with conventional equipment.

WEEDS CONTROLLED LIST

Use HI-DEP® IVM to control many broadleaf weeds including:

— PERENNIAL WEEDS —

Artichoke	Goldenrod	Sowthistle
Aster	Ground Ivy	St. Johnswort
Austrian fieldcress	Healall	Stinging nettles
Bindweed	Hemlock	Strawberry (wild)
Blackeyed susan	Ironweed	Tall buttercup
Blue lettuce	Leafy, spurge	Tanweed
Canada thistle	Knapweed	Toad flax
Catnip	(Spotted Russian, Diffuse)	Vervains
Chicory	Locoweed	Whitetop (Hoary cress)
Clover (many types)	Mugwort	Wild garlic
Coffeeweed	Nettles	Wild onion
Dandelion	Orange hawkweed	Wild sweet potato
Docks	Povertyweed	Yellow rocket
Dogbane	Rose sp.	
Dogfennel	Rushes	

— ANNUAL AND BIENNIAL WEEDS —

Beggarticks	Henbit	Primrose
Bitterweed	Jewelweed	Puncturevine
Black medic	Jimsonweed	Radish (wild)
Broomweed	Jim Hill mustard	Ragweed
Bull thistle	(Tumble mustard)	Russian thistle
Burdock	Knotweed	Scotch thistle
Carpetweed	Lambsquarters	Shepherdspurse
Catchweed bedstraw	Lettuce (wild)	Sneezeweed
Chickweed	Mallow	Sow thistle (common)
Cinquefoil	Marestail (Horseweed)	Spanishneedles
Cockle	Marshelder	Sunflower
Cocklebur	Marijuana	Tansy mustard
Croton	Mediterranean sage	Tansy ragwort
Devilsclaw	Miners lettuce	Tumbleweed
Falseflax	Morningglory (annual)	Tumble pigweed
Fleabane (Daisy)	Musk Thistle	Velvetleaf
Flixweed	Mustard	Vetch
Frenchweed	Parsnip	Wild carrot
Galinsoga	Pennycress	Wild parsnip
Goatsbeard	Pepperweed	Wild turnip
Goosefoot	Pigweed (redroot)	Witchweed
Groundsel	Plantains	Wormwood
Gumweed	Prickly lettuce	Yellow starthistle

ALSO CERTAIN 2,4-D SUSCEPTIBLE WOODY PLANTS SUCH AS:

Big sagebrush	Hazel	Rabbitbrush
Buckbrush	Locust	Sagebrush
Cedars	Manzanita	Sand shinnery oak
Chamise	McCartney rose	Sumac
Cherokee rose	Multiflora rose	Tropical Soda Apple
Coastal sage	Poison ivy	Tules (Bulrush)
Elderberry	Poison oak	Willow

CONTROL OF WOODY PLANTS OR BRUSH AND BROADLEAF WEEDS ON ROADSIDES, DRAINAGE DITCHBANKS, UTILITY & PIPELINE RIGHTS-OF-WAY, RAILROADS, FIREBREAKS, FENCEROWS, INDUSTRIAL SITES & OTHER SIMILAR NONCROP AREAS

HIGH VOLUME: Mix 1 to 2 gallons per 100 gallons of water (1 to 2% solution). Rate per acre depends on the density of brush and/or weeds. For small broadleaf weeds, use the lower rate. Heavy dense stands of brush require the high rate with higher water volume. For small applications with small tank sprayers mix, 1.25 to 2.5 fluid ounces of product per gallon of water.

To effectively control brush, all leaves, stems and suckers should be thoroughly wetted to the ground. Apply when plants come into full leaf (spring) to the time plants begin to go dormant. Best results are obtained when brush and broadleaf weeds are young and actively growing. Do not cut brush until the herbicide has translocated throughout the plant causing root death.

LOW VOLUME FOLIAR:

Backpack — Use 3-5% solution of HI-DEP® IVM in tank mix combinations with other herbicides labeled for rights-of-way sites and apply in a total spray volume of 5 to 20 gallons per acre.

TANK MIXTURES FOR INDUSTRIAL/NONCROPLAND AREAS: HI-DEP® IVM, a mixed amine salt of 2,4-D, can be applied as a tank mixture with other recommended herbicides such as GARLON®, ESCORT®, TORDON®, BANVEL®, VANQUISH®, and ACCORD® to broaden the spectrum of control. In order to assure maximum safety and weed control, follow all precautions and limitations on this label and the labels of products used in tank mixtures with HI-DEP® IVM.

TREE INJECTION: To control unwanted hardwood trees make injections as near the root collar as possible using one injection per inch of trunk's diameter at breast height. For resistant species such as hickory, injections should overlap. For best results injections should be made during the growing season — May 15 to October 1.

For Concentrate Injection — Use 1 to 2 mL of concentrate per injection. The injection

FIREBREAKS, FENCEROWS, INDUSTRIAL SITES & OTHER SIMILAR NONCROP AREAS

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For Concentrate Injection — Use 1 to 2 ml. of concentrate per injection. The injector bit must penetrate the inner bark.

LEAFY SPURGE CONTROL IN COLORADO, IDAHO, MINNESOTA, MONTANA, NEBRASKA, NORTH DAKOTA, SOUTH DAKOTA, WASHINGTON AND WYOMING: HI-DEP® IVM is recommended for use in combination with TORDON® or BANVEL® for the suppression and/or control of leafy spurge on industrial noncropland sites in Colorado, Idaho, Minnesota, Montana, Nebraska, North Dakota, South Dakota, Washington and Wyoming.

How To Use: Apply 1 to 2 quarts of HI-DEP® IVM in combination with 1 quart of TORDON® or 2 quarts of HI-DEP® IVM plus 2 quarts of BANVEL®, or 2 quarts of HI-DEP® IVM plus 1 pint of TORDON® plus 1 quart of BANVEL®. Rates are on a per acre basis.

Mix with water, 1 to 10 gallons per acre with conventional equipment. Use nozzle systems capable of spraying correct gallonage. Add a nonionic surfactant at 0.25% by volume (e.g., 1 quart per 100 gallons of solution).

IMPORTANT: Before using HI-DEP® IVM, TORDON® and/or BANVEL® in these combinations, read and carefully observe the precautionary statements and all other information appearing on the product labels.

BROADLEAF WEED CONTROL IN NONCROPLAND GRASS AREAS SUCH AS LAWNS, GOLF COURSES, CEMETERIES AND PARKS, AIRFIELDS, ROADSIDES, UTILITIES AND PIPELINE RIGHTS-OF-WAY, VACANT LOTS, DRAINAGE DITCHBANKS: Use 1 to 3 quarts per acre. Treat when weeds are young and growing well. Usually 2 quarts per acre will provide adequate weed control. Do not use on dichondra or other herbaceous groundcovers. Do not use on creeping grasses such as bentgrass except for spot treating nor on newly seeded turf until grass is well established. Reseeding lawns should be delayed following treatment. With spring application, reseed in the fall; with fall application, reseed in the spring. Legumes are usually damaged or killed. Deep rooted perennial weeds such as bindweed and Canada thistle may require repeated applications.

For residential and other turf sites excluding sod farms, the maximum application rate to turf is 2.0 pounds 2,4-D acid equivalent per acre per application per site. The maximum number of broadcast applications per treatment site is 2 per year.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

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