



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

62719-
217

Date of Issuance:

DEC 12 1996

NOTICE OF PESTICIDE:

 x Registration
 Reregistration

Term of Issuance:

Conditional

Name of Pesticide Product:

XRM-5202

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

DowElanco
9330 Zionsville Road
Indianapolis, IN 46268

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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes before you release the product for shipment:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 62719-217".
- b. Add a heading to the front paneling to read "For Sale To And Use By Commercial Applicators And Professional Landscapers Only. Not For Sale To Or Use By Homeowners."
- c. Revise the first sentence in the Pesticide Disposal section to read "Pesticide wastes are acutely hazardous."

Signature of Approving Official:

Date:

DEC 12 1996

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- d. Revise the groundwater contamination statement in the Environmental Hazards section to read as follows:

"Clopyralid, an active ingredient in this product, may leach through soil into groundwater under certain conditions of use. Use of this product where soils are permeable, particularly where the water table is shallow, may result in leaching to groundwater. Caution should be exercised when handling this product at mixing, loading, and disposal sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this product will reduce the probability of spills. Placement of mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination."

- e. Revise the beginning of the third sentence in the Container Disposal statement for both metal and plastic containers to read "Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill...".

3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

DK: 305-7546: FHB/PM23								CONCURRENCES	
SYMBOL ▶	7505C								
SURNAME ▶	D. KENNY								
DATE ▶	12/6/96								

(Container Label)

(logo) DowElanco

XRM-5202

ACCEPTED
with **COMMENTS**
In EPA Letter Dated

DEC 12 1996

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

62719-217

For the Control of Annual and Perennial Broadleaf Weeds in Ornamental Turf.**Active Ingredient(s):**

2,4-D: 2,4-dichlorophenoxyacetic acid, triisopropanolamine salt	50.7%
triclopyr: 3,5,6-trichloro-2-pyridinyloxyacetic acid, triethylamine salt	3.8%
clopyralid: 3,6-dichloro-2-pyridinecarboxylic acid	1.3%
Inert Ingredient(s)	44.2%
Total	100.0%

Acid Equivalent:

2,4-D (2.67 lb/gal)	27.2%
Triclopyr (0.27 lb/gal)	2.7%
Clopyralid (0.13 lb/gal)	1.3%

**Isomer Specific by AOAC Method No. 6.275 - 6.279 (13th Ed.)

Precautionary Statements**Hazards to Humans and Domestic Animals****Keep Out of Reach of Children****DANGER****PELIGRO**

Precaucion al Usuario: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Corrosive • Causes Irreversible Eye Damage • Harmful If Swallowed, Inhaled Or Absorbed Through Skin

Do not get in eyes, on skin or clothing. When using this product, wear long-sleeved shirt, long pants, socks, shoes, rubber gloves and eye protection. It is recommended that safety glasses include front, brow and temple protection. After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

First Aid

If in eyes: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

If swallowed: Promptly drink a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. Get medical attention.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Note to Physician: Probable mucosal damage may contraindicate use of gastric lavage.

Environmental Hazards

Drift or runoff may adversely affect nontarget plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Most cases of groundwater contamination involving herbicides have been associated with mixing/loading and disposal sites. Caution should be exercised when handling these 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.

Refer to label booklet for additional precautionary information and Directions for Use including STORAGE AND DISPOSAL.

Notice: Read and understand the entire label before using. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" elsewhere on this label.**

In Case of Emergency - endangering health or the environment involving this product, call collect 517-636-4400

Agricultural Chemical - Keep away from food, feedstuffs and water supplies. Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-XXX

EPA Est. 464-MI-1

DowElanco • Indianapolis, IN 46268, U.S.A.

Specialty Herbicide

Net Contents - 1 Gallon

(Label Booklet)

(logo) DowElanco

XRM-5202**For the Control of Annual and Perennial Broadleaf Weeds in Ornamental Turf.****Active Ingredient(s):**

2,4-D: 2,4-dichlorophenoxyacetic acid, trisopropanolamine salt 50.7%
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Note to Physician: Probable mucosal damage may contraindicate use of gastric lavage.

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Directions for Use

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

Read all Directions for Use carefully before applying. Apply this product only as specified on this label.

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

Reentry: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until spray has dried.

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Storage and Disposal

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

Storage: Keep container tightly closed when not in use. Store above 28°F or agitate before use.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be used 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 Non-Refillable Containers (Metal): Do not reuse container. Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Container Disposal for Non-Refillable Containers (Plastic): Do not reuse container. Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Container Disposal for Refillable Containers: Close all openings which have been opened during use and replace all caps. Return the empty container to a collection site designated by DowElanco. If the container has been damaged and cannot be returned according to the recommended procedures, contact the DowElanco Customer Service Center at 1/800-258-1470 to obtain proper handling instructions.

General: Consult federal, state, or local disposal authorities for approved alternative procedures.

General Information

XRM-5202 herbicide is a broad-spectrum herbicide for control of actively growing annual and perennial broadleaf weeds in established ornamental turf such as lawns, golf courses, roadsides and cemeteries. XRM-5202 may be applied to the following established turfgrass species:

Established Cool Season Turfgrasses

Common Name	Scientific Name
bentgrass [†]	<i>Agrostis species</i>
bluegrass, Kentucky	<i>Poa pratensis</i>
fescue, chewing	<i>Festuca rubra</i> var. <i>commutata</i>
fescue, creeping red	<i>Festuca rubra</i>
fescue, sheeps	<i>Festuca ovina</i>
fescue tall	<i>Festuca arundinacea</i>
ryegrass, perennial	<i>Lolium perenne</i>

Established Warm Season Turfgrasses^{††}

Common Name	Scientific Name
bahiagrass [†]	<i>Paspalum notatum</i>
bermudagrass [†]	<i>Cynodon dactylon</i>
buffalograss	<i>Buchloe dactyloides</i>
centipedegrass [†]	<i>Eremochloa ophiuroides</i>
zoysiagrass [†]	<i>Zoysia japonica</i>
zoysiagrass [†]	<i>Zoysia tenuifolia</i>
fescue, tall (growing in warm season areas)	<i>Festuca arundinacea</i>

[†]Do not apply to these turfgrass species unless potential turfgrass injury can be tolerated. Also, when treating these turfgrass species, do not apply more than 3 pints per acre. To minimize grass injury, additional applications should be made at least four weeks apart. Avoid swath overlaps.

^{††}Do not treat warm season turfgrass with XRM-5202 when mowing height is less than 1/2 inch.

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General Use Precautions

Note: XRM-5202 may discolor and/or stunt turf that is not well-established or is stressed or weakened due to unfavorable climatic conditions, temperature extremes, drought, nematodes, or other factors which damage or weaken turf. Apply XRM-5202 only to healthy, well-established turf that has a well-anchored root system.

Do not apply XRM-5202 to grass species not listed on this label unless potential turf injury can be tolerated.

Do not apply XRM-5202 to golf course greens or tees.

Mow newly seeded turf at least twice before treatment with XRM-5202.

The maximum number of broadcast applications per treatment site is 2 per year.

Do not apply more than 4 pints per acre of XRM-5202 per application.

Do not water for 6 hours after application.

Do not reseed for 3 weeks after application.

Do not use grass clippings from turf treated with XRM-5202 for mulch or compost.

Do not apply to exposed roots of shallow rooted trees and shrubs.

Do not apply in or on ditches used to transport irrigation water. Do not apply where runoff or irrigation water may flow onto susceptible crops as injury may result.

Be sure that use of this product conforms to all applicable local or state regulations.

Chemigation: Do not apply this product through any type of irrigation system.

Avoid Injurious Spray Drift

Do not apply XRM-5202 directly to, or otherwise permit it to come in contact with, or permit spray mists containing XRM-5202 to drift onto, cotton, citrus, grapes, tobacco, vegetable crops, flowers, fruit or ornamental trees, shrubs, or other desirable broadleaf plants. Applications should be made only when hazards from spray drift are at a minimum. Very small quantities of spray, which may not be visible, may seriously injure susceptible plants. Do not spray when wind is blowing toward susceptible crops or ornamental plants near enough to be injured.

Spray drift can be reduced by spraying when wind velocity is low, keeping the spray boom as low as possible, using nozzles that deliver larger spray droplets and minimize the production of fine spray particles, and by using higher spray volumes and lower pressures.

Weeds Controlled and Use Rate Recommendations

Weeds Controlled		Suggested Use Rate	
		(pints/Acre)	(fl oz/1000 sq ft)
black medic chickweed chicory clover dandelion dock henbit lambsquarters, common	mallow pigweed plantain, broadleaf plantain, buckhorn ragweed shephardspurse yarrow	3 pints	1.1 fl oz
lespedeza heal-all poison ivy	smartweed thistle, musk wild carrot	4 pints†	1.5 fl oz
ground ivy spurge, prostrate thistle, Canada		3 pints, 2 applications 3 to 4 weeks apart	1.1 fl oz, 2 applications 3 to 4 weeks apart

†The maximum use rate for most warm season grasses is 3 pints per acre. See listing of warm season grasses in the "General Information" section of this label for exceptions.

Turf Application Directions

Apply 3 to 4 pints of XRM-5202 per acre to control above listed broadleaf weeds.

Make application using equipment that will ensure uniform coverage (see specific application directions below). Foliar sprays should be applied during warm weather when weeds are actively growing. Application under drought conditions may provide less than desirable results. When hard-to-control species are prevalent, when applications are made in late summer when weeds are mature, or during drought conditions, use the higher rates.

Note: Broadleaf weeds germinate at different times of the year. Only emerged weeds present at the time of application will be controlled by XRM-5202

Apply XRM-5202 in a manner to avoid contacting nearby susceptible crops or other desirable plants. Very small amounts of spray drift may injure susceptible plants, including ornamental trees and shrubs. Take necessary precautions to minimize spray drift. **Carefully read and understand all General Use Precautions before applying.**

Standard Volume Broadcast Applications: Apply 3 to 4 pints of XRM-5202 in enough water to deliver 20 to 200 gallons of total spray mix per acre (0.5 to 5 gallons spray per 1,000 square feet). Higher application volumes may be used when XRM-5202 is tank mixed with liquid fertilizers.

Low Volume Broadcast Applications: Apply 3 to 4 pints of XRM-5202 in enough water to deliver from 5 to 40 gallons of total spray mixture per acre. Use low pressures and application equipment capable of delivering a uniform droplet size that can wet the weed leaf surface.

Targeted Zone Applications or Spot Treatment Using Portable Sprayers: Mix 0.5 to 1.0 oz. of XRM-5202 in enough water to make 1 gallon of spray and apply at any time broadleaf weeds are actively growing. Target plants should be sprayed to wet but not beyond point of runoff.

Limited Warranty And Disclaimer

The manufacturer warrants that this product conforms to the chemical description on the label; that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and that the directions, warnings and other statements on this label are based upon responsible expert's evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLERS EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

NOTICE TO BUYER

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