

MAY 27 1998

Mr. Timothy J. Healey
Lange-Stegmann Company
One Angelica Street
St. Louis, MO 63147

Dear Mr. Healey:

Subject: Lange Brand Dimension® Granules Turf Herbicide
EPA Registration No. 43854-3
Application and Letter Dated January 19, 1998; and
Your Letter Dated March 19, 1998, Notification
of a Minor Revision per PR Notice 95-2, the Addition
of Dry Bulk Containers with Capacities of 2000 Pounds

The proposed amendments to the subject pesticide product registration have been review and found acceptable for registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, provided that you:

- o Submit one (1) copy of your final printed label prior to your shipment of the subject pesticide product under the enclosed stamped label.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment of the product constitutes acceptance of this condition.

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

Sincerely yours,

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

Enclosure

E. Wilson: Dithiopyr: 05-27-98

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

**LANGE® BRAND DIMENSION®
GRANULES TURF HERBICIDE**

ACTIVE INGREDIENT:

INERT INGREDIENTS:.....	99.73%
Total.....	100.00%

***This product contains 5.40 pounds of the active ingredient, dithiopyr, per 2,000 pound bag.**

Product protected by U.S. Patent No. 4,692,184. Other patents pending.

EPA Reg. No. 43854-3

EPA Est. No. 43854-MO-1

50 pound bag treats up to 21,780 square feet for crabgrass control.

2,000 pound bag treats up to 871,200 square feet (20 acres) for crabgrass control.

NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

KEEP OUT OF REACH OF CHILDREN

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAY 27 1998

CAUTION

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

43854-5

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

FIRST AID: IF IN EYES - Immediately flush eyes with plenty of water.

Environmental Hazards

This product is toxic to fish. Drift and runoff may adversely affect aquatic organisms. 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 disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. In the state of New York ~~do not use in Nassau County and Suffolk County.~~ this product may only be used by professional applicators at no more than 185 pounds (0.50 pounds active ingredient) per acre per year and is prohibited from use in Nassau and Suffolk counties.

STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

STORAGE - Store this product only in its original container ~~only~~ in a dry, cool secured storage area.

SPILL - In case of spill, sweep up ~~material and dispose of material according to label directions~~ product and apply per label instructions. If product is not useable, follow "Pesticide Disposal" directions listed below.

PESTICIDE DISPOSAL - Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or Local procedures.

CONTAINER DISPOSAL - Paper and Plastic Bags (50 and 25 Pounds) ~~Do not reuse emptied container.~~ Completely empty bag into application equipment. Dispose of emptied bag(s) in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. Bulk Containers - Woven Polyethylene (2000 Pounds) - Empty thoroughly and return to specified destination for cleaning and reuse.

GENERAL INFORMATION

This product is a selective herbicide that provides preemergence control of crabgrass and other susceptible annual grasses and broadleaf weeds in established lawns and ornamental turf. This product will not harm nearby established ornamentals when used according to label directions.

PRECAUTIONS

Use of this product on golf greens is not recommended. **DO NOT** apply this product to Colonial bentgrass. For best results, cultural practices that disturb the soil, such as core, spike, hydroaerification, or verticutting, and top dressing should be done before application of this product. This product should not be applied until turfgrasses have recovered from stresses related to these or other mechanical operations. Irrigation or rainfall within 7 days after application will improve the performance of this product.

Reseeding or Sprigging: Reseeding, overseeding, or sprigging of treated areas within 4 months after application of this product may inhibit the establishment of desirable turfgrass. When reseeding or overseeding, proper cultural practices such as soil cultivation, irrigation and fertilization should be followed. For best results, use mechanical or power seeding equipment (slit seeders) designed to give good seed-to-soil contact. This product may be used on seeded, sodded, or sprigged turfgrass that are well-established. Allow the turf to develop a good root system and uniform stand before application.

Use of this product on turfgrass not well-established, weakened by lack of moisture, chemical injury, insects, disease, or temperature extremes that cause stress will increase the potential for injury. Allow turfgrass weakened by these stresses to recover before application of this product. **DO NOT** apply to flowers, vegetables, shrubs or trees. **DO NOT** use clippings from treated turf for mulching around vegetables or fruit trees. **DO NOT** allow domestic animals to feed or forage on the treated turf.

This product can be applied only once per year at a maximum use rate of 185 pounds per acre (one-half pound active ingredient per acre). **DO NOT** make repeat or split applications of this product during a single growing season.

TURFGRASS

When applied as directed under the conditions described, the following established turfgrasses are tolerant to this product:

Cool-Season Grasses

Bentgrass, creeping*	<i>Agrostis stolonifera</i>
Bluegrass, kentucky	<i>Poa pratensis</i>
Fescue, fine**	<i>Festuca rubra</i>
Fescue, tall	<i>Festuca arundinacea</i>
Rye grass, perennial	<i>Lolium perenne</i>

Warm-Season Grasses

Bahiagrass	<i>Paspalum notatum</i>
Bermudagrass	<i>Cynodon dactylon</i>
Buffalograss	<i>Buchloe dactyloides</i>
Carpetgrass	<i>Axonopus affinis</i>
Centipedegrass	<i>Eremochloa ophiuroides</i>
Kikuyugrass	<i>Pennisetum clandestinum</i>
St. Augustinegrass	<i>Stenotaphrum secundatum</i>
Zoysiagrass	<i>Zoysia japonica</i>

DO NOT apply this product to Colonial bentgrass.

* Use of this product on certain varieties of creeping bentgrass, such as "Carmen", "Cohansey", or "Seaside" will result in undesirable turf injury. Not all varieties of creeping bentgrass have been tested.

**The following fine fescue varieties have been found to be sensitive to this product: "Atlanta", "Banner", "Beauty", "Bilgart", "CF-2", "Enjoy", "HF-93", "Highlight", "Ivalo", "Jamestown", "Koket", "Majenta", "Mary", "Pennlawn", "Tamara", "Tatjana", "Waldorf", and "Waldina".

APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product with drop or rotary-type spreaders designed to apply granular herbicides. Calibrate application equipment prior to usage, and apply this product uniformly over the turfgrass area. *A more uniform application can be made by spreading half of the required amount over the area and then applying the remaining half at a right angle to the previous, (**see spreader settings for half rate*). Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Avoid streaking, skips, or overlaps during application. Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules.

APPLICATION DIRECTIONS

This product provides preemergence control of listed annual grasses and broadleaf weeds when applied prior to their germination in established turfgrass.

Control of Annual Grasses and/or Annual Broadleaf Weeds

This product should be applied prior to the germination of annual grasses and/or broadleaf weeds. Use the higher recommended rates where weed infestations are dense and/or applications are made early and longer residual control is desirable. For preemergence control and/or suppression of annual bluegrass and listed winter annual broadleaf weeds, apply this product prior to their germination and emergence. Use the higher recommended use rates where weed infestations are dense.

Refer to the following table for recommended use rates of this product for the preemergence control of annual grasses and/or broadleaf weeds.

WEEDS CONTROLLED AND USE RATE RECOMMENDATIONS

*Use 100 to 150 Pounds/Acre = 2.3 to 3.4 Pounds/1,000 sq. ft.

Crabgrass; (Large, Smooth, Southern)

Foxtail; (Green, Yellow)

*Use 150 to 185 Pounds/Acre = 3.4 to 4.2 Pounds/1,000 sq. ft.

Barnyardgrass	Lespedeza, common	Ryegrass,
Chickweed	Kikuyugrass	Annual
Clover, hop	Oxalis,	Perennial
Crabgrass, tropical	Buttercup	Smutgrass
Crowfootgrass	Creeping Woodsorrel	Speedwell, corn
Dichondra, Carolina	Yellow Woodsorrel	Spurge,
	Pineappleweed	Prostrate
		Spotted
<u>**Use 185 Pounds/Acre = 4.2 Pounds/1,000 sq. ft.</u>		
Bluegrass, annual	Henbit	
Bittercress	Parsley-piert	
Geranium, Carolina	Pineappleweed	
Chickweed	Purslane, common	
Goosegrass	Shepardspurse	

*The higher use rates are recommended where weed infestations are heavy and/or dense. **Use of this product at this rate will provide only partial control and/or suppression of listed weeds.

CONDITIONS OF SALE AND WARRANTY

Lange-Stegmann Company warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Lange-Stegmann Company **MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of Lange-Stegmann Company and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pest, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL LANGE-STEGMANN COMPANY OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

LANGE® is a registered trademark of Lange-Stegmann Company

Net Weight 50 Pounds (22.68 kg)

Net Weight 2000 Pounds (907 kg)

LANGE-STEGMANN COMPANY
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ST. LOUIS, MO 63147