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07/26/1988

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US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDE PROGRAMS
REGISTRATION DIVISION (ITS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NUMBER
59823-1

DATE OF ISSUANCE
JUL 26 1988

TERM OF ISSUANCE
Conditional

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT
Typar Biobarrier™ Root Control
System

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Reemay, Inc.
1000 Industrial Road
P.O. Box 511
Old Hickory, TN 37138

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.
Registration is in no way to be construed as an indorsement or approval of this product by this 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 section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration or reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 59823-1."
 - b. Adjust either the ingredient statement or formula statement to account for the active ingredient content of trifluralin in the technical material. Based on the data submitted, the ingredient statement declaration would be 17.1% of trifluralin [2.16 x 12 x .92 = 17.1]
 - c. Delete "Do not contaminate water when cleaning of equipment washwaters" and "Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites."

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE
JUL 26 1988

3. Submit a discussion of the basis for the certified limits described for the active ingredient content.

4. Submit one (1) copy of your final printed labeling 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 section 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.

Richard F. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Enclosure



ACCEPTED
with COMMENTS
in EPA Letter Dated

JUL 26 1988

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

59023-1

CONTAINS

Treflan

Typar®-BioBarrier™ is a multi-year root control system consisting of herbicidal time-release nodules permanently attached to a permeable geotextile fabric which will inhibit plant root encroachment in the following areas:

- | | | |
|----------------------|----------------------|--------------------------|
| Waste Burial Sites | Tennis Courts | Landfills |
| Sidewalks | Swimming Pools | Burial Vaults/Tombstones |
| Roads | Septic Fields | Underground Pipes/Cables |
| Building Foundations | Bike/Golf Cart Paths | Utility Substations |
| Curbs | | |

Active Ingredient:
trifluralin (α,α,α-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine)..... 18.0%

Inert Ingredients..... 82.0%

Typar® - the registered trademark for Reemay, Inc.'s Spunbonded polypropylene BioBarrier™ - the trademark for Reemay, Inc.'s root control system
Treflan® (trifluralin) and diagonal color bar - the registered trademarks of Elanco Products Company.

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children.

CAUTION

Causes eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with eyes, skin or clothing. The active ingredient trifluralin may cause skin sensitization reactions in certain individuals. Use eye protection and protective clothing, such as coveralls, a long-sleeved shirt, and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

See back page for additional precautionary statements

EPA Reg. No. XXXX - XX

EPA Est. XXXX - TN - 1

DIRECTIONS FOR USE READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING**General Directions:**

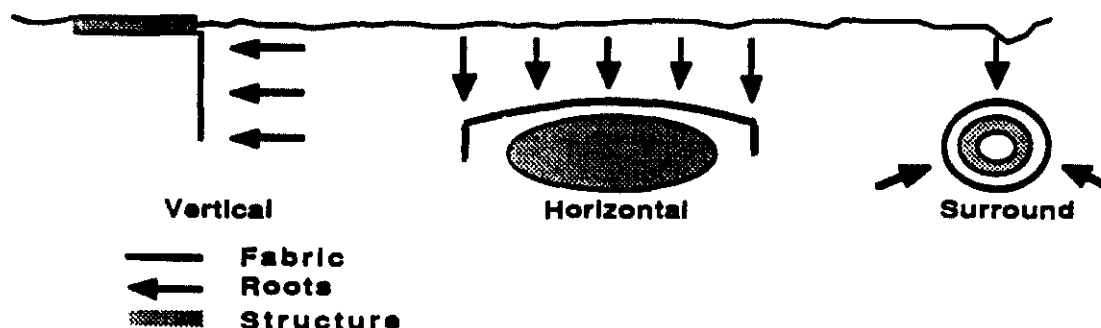
Typar® Biobarrier™ is a multi-year root control system which is strategically positioned in the soil to protect structures from plant root encroachment (see above end use sites). Typar® Biobarrier™ controls roots by establishing an in-soil barrier plane of trifluralin, which prevents root tip cell division. Roots are either stopped or redirected away from structures. Trifluralin is not systemic but can limit root mass. Typar® Biobarrier's multi-year feature is provided by a time-release mechanism which continues to meter trifluralin into the soil as the exposed trifluralin biologically and chemically degrades. Structure protection is provided by placing the Typar® Biobarrier™ fabric between the root source and the structure. Since the fabric is flexible and permeable, installation may be custom contoured to obtain the most desirable root system redirection for the application and/or to accommodate obstacles.

Application Directions:

Typar® Biobarrier is ready for in-soil installation as received. The fabric should be placed in soil as soon as practical after removal from the sealed shipping container minimizing exposure to direct sunlight and elevated temperatures. Prolonged exposure can reduce the effective life of the product. Store any unused portions of the product tightly resealed in the original container in a cool, dry place.

Typar® Biobarrier™ can be installed in the soil vertically, horizontally or as a surround. Vertical applications typically require standard ditch/trench digging equipment (Follow all applicable codes when digging below surface). Vertical fabric position can be maintained by suspending it at the top with hangers. Horizontal applications may require seaming or hold down pegs. Surround applications may involve a variety of holding devices to assure fabric position. In all applications, nodules must be no further than 1-1/2 in. apart in order to assure a continuous root barrier plane. Fabric should extend a minimum of 18" beyond structure area to be protected as roots can grow around edges of fabric. A minimum of 4" soil overlay should also be maintained.

Typar® Biobarrier™ used in retrofit applications, where roots are already present, require that roots be interrupted with a root pruner or equivalent device. Root control will not be effective if roots penetrate fabric at time of installation.

TYPAR® BIOBARRIER APPLICATIONS

STATEMENTS OF PRACTICAL TREATMENT

If in eyes: Flush eyes with plenty of water. Call a physician.

If swallowed: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

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

If inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, or marshes). Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water when disposing of equipment washwaters.

STORAGE AND DISPOSAL

Storage: Store in original container only. Store in cool, dry place.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or 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 container. Then dispose of wrap and/or box in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

DISCLAIMER OF WARRANTIES

The seller makes no warranties concerning this product or its use which extend beyond the standard specifications for the products. SELLER MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. Buyer assumes all risk and liability resulting from use of the products delivered hereunder, whether used singly or in combination with other products. All statements concerning this product apply only when used as directed.

LIMITATION OF DAMAGES

No claim of any kind, whether as to products delivered or for non-delivery of products, and whether or not based on negligence, shall be greater in amount than the purchase price of the products in respect of which damages are claimed. No charge or expense incident to any claims will be allowed unless approved by an authorized representative of Seller. Products shall not be returned to Seller without Seller's prior permission, and then only in the manner prescribed by Seller. THE REMEDY HEREBY PROVIDED SHALL BE THE EXCLUSIVE AND SOLE REMEDY OF BUYER, AND IN NO EVENT SHALL EITHER PARTY BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER OR NOT CAUSED BY OR RESULTING FROM THE NEGLIGENCE OF SUCH PARTY.