

Lebanon TREFLAN\* 5G is a selective preemergence herbicide for control of certain annual grasses and broadleaf weeds in:

- Container Grown Ornamentals
   Landscape Ornamentals
   Nursery Stock
- Ground Covers
   Established Flowers
   Ornamental Bulbs
- Non-Bearing Fruit and Nut Trees and Non-Bearing Vineyards in Ornamental Landscaping
   Noncropland

ACTIVE INGREDIENT:

\*trifluralin 5.07%
OTHER INGREDIENTS: 95.0%
100.0%

#### KEEP OUT OF REACH OF CHILDREN CAUTION

Refer to back panel of bag for precautionary information and Directions for Use including STORAGE AND DISPOSAL. In case of an emergency endangering life or property involving this product, call Chemtrec at 1-800-424-9300.

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

FIRST AID

PERSONAL PROTECTIVE EQUIPMENT (PPE):

USER SAFETY RECOMMENDATIONS
Users should: • Wash hands before eating, drinking, chewing gu
• Remove clothing immediately if pesticide gets in
• Remove PPE immediately after handling this pr

ENVIRONMENTAL HAZARDS

## MANUFACTURED BY LEBANON SEABOARD CORPORATION 1600 EAST CUMBERLAND STREET LEBANON, PA 17042

www.LebanonTurf.com





Lebanon TREFLAN\* 5G is a selective preemergence herbicide for control of certain annual grasses and broadleaf weeds in:

- Container Grown Ornamentals
- Landscape Ornamentals
- Nursery Stock

- Ground Covers
- Established Flowers
- Ornamental Bulbs
- Non-Bearing Fruit and Nut Trees and Non-Bearing Vineyards in Ornamental Landscaping

EPA Est. 961-PA-01:961-IL-01

Superscript used is first letter of lot number.

Noncropland

### **ACTIVE INGREDIENT:**

*trifluralin	5.0%
OTHER INGREDIENTS:	95.0%
TOTAL	100.0%

Contains 2 pounds active ingredient per 40 pound bag.

EPA Reg. No. 961-405

\*Trademark of Dow AgroSciences LLC.

Manufactured using the processes of U.S. Patents 4,120,905 and 4,226,789.

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## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### CAUTION

Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### FIRST AID

IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.

- Call a poison control center or doctor for treatment advice.
- IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice.
  - Have person sip a glass of water if able to swallow.
  - Do not induce vomiting unless told to by a poison control center or doctor.
  - . Do not give anything to an unconscious person.
- IF ON SKIN: Take off contaminated clothing.
  - Rinse skin immediately with plenty of water for 15-20 minutes.
  - Call a poison control center or doctor for treatment advice.
- IF INHALED: Move person to fresh air.
  - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
  - Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For Emergency Medical Information call (888) 208-1368.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other Handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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,

#### **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. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

### **MANUFACTURED BY** LEBANON SEABOARD CORPORATION

**1600 EAST CUMBERLAND STREET** LEBANON, PA 17042 www.LebanonTurf.com

#### **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.

NOT FOR USE ON PLANTS BEING GROWN FOR SALE OR OTHER COMMERCIAL USE, OR FOR COMMERCIAL SEED PRODUCTION OR FOR RESEARCH PURPOSES. FOR USE ON PLANTS INTENDED FOR AESTHETIC PURPOSES OR CLIMATIC MODIFICATIONS AND BEING GROWN IN INTERIOR PLANTSCAPES, ORNAMENTAL GARDENS OR PARKS, OR ON GOLF COURSES OR LAWNS AND GROUNDS.

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.

#### **ENTRY RESTRICTIONS**

Do not enter or allow others to enter the treated area until dusts have settled. If soil incorporation is required after the application, do not enter or allow others to enter the treated area (except those persons involved in the incorporation) until the incorporation is complete. If the incorporation is accomplished by watering-in, do not enter or allow others to enter the treated area until the surface is dry after the watering-in.

#### **GENERAL INFORMATION**

This product is a preemergence herbicide for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees, non-bearing vineyards in ornamental landscaping only, and noncropland. Apply before or after planting but prior to germination of target weeds, or immediately after cultivation. Length of weed control will vary with weed population, potting media or soil conditions, temperature, watering regime and other factors. Following application, user should monitor and observe level of weed control over time to determine when additional applications may be needed. Repeat applications should not be made sooner than 60 days after a previous application. Do not apply over 240 lbs. per acre total of this product within a 12-month period.

#### **GENERAL USE PRECAUTIONS**

This product does not control established weeds. Existing weeds should be controlled by cultivation or with postemergence herbicides. Weed residues, prunings and trash should be removed or thoroughly mixed into soil prior to treatment. Soil should be in good condition and free of clods at the time of application. A single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation, is required to activate this product. Optimum weed control is obtained when this product is activated within 3 days of application. If rainfall or irrigation has not occurred within 3 days of application and tillage is possible, this product may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate this product within 3 days of application may result in erratic weed control. Do not apply when wind conditions favor drift of the granules from the target area.

Optimum weed control will be obtained when followed by overhead irrigation or rainfall within a few hours after surface application.

#### WEEDS CONTROLLED WHEN APPLIED AT 80 LBS./ACRE (1.8 Lbs./1,000 Sq. Ft.)

#### ANNUAL GRASSES

Barley, hare Brome Crabgrass Fescue, rattail Goosegrass Lovegrass Panicum, fall Signalgrass Stinkgrass Barnyardgrass (watergrass) Cheat Cupgrass, Southwestern Foxtail Junglerice Oat, Wild Sandbur, field Sprangletop, Mexican Witchgrass Burnyardgrass, annual

ANNUAL BROADLEAF WEEDS

Lambsquarters, common

Nettle, stinging

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 80 lbs./acre (1.8 lbs./1000 sq. ft.).

Panicum, Texas Pusley, Florida Shattercane

Sarpetweed Johnsongrass (from seed) Panicum, Texas Pusley, Florida Shattercane

#### APPLICATION DIRECTIONS

Apply this product using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or plant injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

### APPLICATION TECHNIQUES

- When using a drop-type spreader, a splash board mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.

Kochia

- For treating smaller areas or rows of nursery stock or ornamental beds, a hand held or push-type rotary applicator such as whirlybird or cyclone unit is recommended. For hand held units, walk and turn the crank at a constant rate of speed.
- A shaker-type applicator made from a small container with holes punched in the bottom is recommended for small, hard to treat areas. Carefully measure the amount of product needed to avoid over-application.

#### **APPROVED USES**

Container Grown Ornamentals, Landscape Ornamentals, Nursery Stock, Ground Covers, Established Flowers, Ornamental Bulbs, Non-bearing Fruit and Nut Trees, Non-bearing Vineyards in Ornamental Landscaping Only, and Non-cropland.

This product is recommended as a preeemergence treatment for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees, non-bearing vineyards in ornamental landscaping only, and non-cropland. Apply before or after planting but prior to germination of target weeds, or immediately after cultivation.

Refer to the "General Information" section of this label for general use precautions and information on application, application rates and weeds controlled.

#### SPECIAL USE PRECAUTIONS

To avoid possible injury, do not apply this product to:

• Unrooted liners or cuttings that have been planted in pots for the first time

Goosefoot, nettleleat

• Pots less than four inches wide

Chickweed, common

Ground covers until they are established and well rooted

Do not apply to newly transplanted ornamentals, nursery stock, ground covers, flowers and non-bearing fruit and nut crops and non-bearing vineyards in ornamental landscaping until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or injury may occur.

Do not make preplant applications of this product to areas where gladioli corms are less than one inch in diameter will be planted or injury may occur.

Do not apply this product in greenhouse or other enclosed structures.

Repeat applications should not be made sooner than 60 days after a previous application of this product. Do not apply over 240 lbs. per acre total of this product within a 12 month period.

Prior to using this product on a large number of plants, the treated plants should be observed for signs of herbicidal injury during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. THE USER ASSUMES RESPONSIBILITY FOR ANY PLANT DAMAGE OR OTHER LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ON PLANT SPECIES NOT RECOMMENDED ON THIS LABEL.

This product may be used on the following established plant species when container grown or field grown:

Balsam Fir White Fir White Fir Albus Flowering Maple Luteus Flowering Maple Roseus Flowering Maple Tangerine Flowering Maple Vesuvius Red-Flowering Maple Flame Maple Norway Maple Red Maple Red Sunset Maple Silver Maple Sugar Maple Queen Palm River Birich Paper Birch European White Birch
Bottle Tree
Black Olive
Chinese Chesthut
Carob
Redbud
Fillicoides-Fernspray Cypress
Gracilis-Slender Hinoki Cypress
Swara False Cypress
Squarrosa-Moss Cypress
Palm (Chamaedorea castaractarum)
Palm (Chamaedorea costaricana)
Parlor Palm
Cloud Nine Dogwood
Flowering Dogwood

Kousa Dogwood Green Hawthorn Carrot Wood Arizona Cypress Russian Olive Redgum Eucalyptus Mealy Eucalyptus Silver Dollar Eucalyptus Coolibah Tree Red Ironbark Eucalyptus Ficus White Ash Shamel Ash Ginko-Maidenhair Tree

TREES

Shademaster Honey Locust
Toyon
Florida Anise-Tree
Eastern Red Cedar
Japanese Larch
American Sweet Gum
Tuliptree
Southern Magnolia
Crabapple
White Mulberry
Banana
Blackgum
Sourwood
Norway Spruce

Pendula-Weeping Norway Spruce
Repens-Spreading Norway Spruce
Dwarf Alberta Spruce
White Spruce
Dwarf Globe Blue Spruce
Glauca-Colrado Blue Spruce
Glauca-Colrado Blue Spruce
Hoopsi-Hoop's Blue Spruce
Koster-Koster Blue Spruce
Bristlecone Pine
Canary Island Pine
Shore Pine, Beach Pine
Eldarica Pine
Bosnian Pine
Pumilic-Shrubby Swiss Mountain Pine
Austrian Black Pine

Monterey Pine Scarlet Oak Red Pine White Pine Bear Oak Pin Oak Willow Oak Columnar Scotch Pine Scotch Pine Red Oak Loblolly Pine Live Oak Japanese Black Pine Black Locust London Planetree American Sycamore Willow Giant Sequoia California Sycamore Mahogany Yellow Tab Podocarpus Cottonwood Baldcypress Chilean Mesquite Eastern Hemlock Yoshino Flowering Cherry Douglasfir Chinese Elm Mexican Fan Palm Thistle, Russian

#### **ORNAMENTAL SHRUBS**

Edward Goucher Abelia Japanese Boxwood Praecox-Early Cotoneaster Glossy Abelia Abyssinica Acacia Prostrate Acacia Korean Boxwood Common Boxwood Lemon Bottlebrush Cranberry Cotoneaster Pyrenees Cotoneaster Bearberry Cotoneaster Shoestring Acacia Weeping Bottlebrush Himalayan Cotoneaster Spring Torch Scotch Heather
Japanese Camellia Rock Cotoneaster Amur Maple Zabel Cotoneaster Coral Bark Japanese Maple Sasangua Camellia Sago Palm Feathery Cassia Wild Lilac Hollandia-Warminster Broom Lena-Scotch Broom Dwarf Japanese Maple Century Plant False Spirea Plum Yew Fragrant Daphne Snow-in-Summer Kosteri Cypress Nana-Dwarf Hinoki Cypress Japanese Painted Fern Coyotebush Deutzia Hopseed Bush William Penn Barberry Fruitland Silver Berry Purple Bell Heather Mentor Barberry Atropurea-Redleaf Japanese Barberry Torulosa Cypress Filifera-Thread Cypress Mediterranean Pink Heather Aurea-Golden Japanese Barberry Areca Palm Cornish Heather Crimson Pygmy Barberry Rose Glow Barberry Winged Euonymus Canadale Gold Euonymus Summersweet Japanese Cleyera Emerald'n Gold Euonymus Barbara Karst Sibirica-Siberian Dogwood Baileyi Red Osier Dogwood Flaviramea-Yellowtwig Dogwood Sunspot Euonymus Wintercreeper Euonymus California Gold Pink Pixie Scarlet O'Hara Royal Purple Smoke Tree Silver King-Euonymus Temple Fire Texas Dawn Coral Beauty Smoke Tree Eichholz Smoke Tree Variegated Evergreen Euonymus Spreading Euonymus

Serotina Woodbine Pineapple Guava Forsythia August Beauty Gardenia Gardenia Trumpet Honeysuckle Leather Leaf Mahonia Creeping Mahonia Radican Gardenia Wax Myrtle Salal/Lemon Leaf Carolina Jessamine Compacta-Dwarf Heavenly Bamboo Harbour Dwarf-Heavenly Bamboo Woadwaxen Heavenly Bamboo Ross Estey-Hibiscus Rose-of-Sharon- Heart Rose-of-Sharon- Red Bird Nana Compacta-Heavenly Bamboo Nana Purpurea-Heavenly Bamboo Woods Dwarf Heavenly Bamboo Rose-of-Sharon- Woodbridge Hardy Red Oleander Holly Oleander Mystery Gardenia Ruby Lace Oleander Henry Garnet Holly Leaf Sweetspire Fortunes Osmanthus Mockorange Pigmy Date Palm Ixora Juniper Mountain Laurel Fraser's Photinia Japanese Andromeda Crape Myrtle Mountain Fire Lily-of-the-Valley Snowdrift Lily-of-the-Valley Templebells Lily-of-the-Valley Lantana

Valley Rose Lily-of-the-Valley

Valley Valentine Lily-of-the-Valley Forest Flame Lily-of-the-Valley

Dolchia Spiraea

Mugo-Mugho Pine Japanese Alpine Spiraea Green Pittosporum
Japanese Pittosporum
Wheeler's Dwarf Pittosporum Shirobana Spiraea Bridal Wreath Chinese Lilac Blue Cape Plumbago Common Lilac Upright Japanese Yew Plumbago Yewpine Anglojap Yew Tassel Fern Cape Honevsuckle Cinquefoil Carolina Laurel Cherry Dwarf Pink Flowering Almond Ternstroemia gymnanthera American Arborvitae Emerald Arborvitae Pyracantha Charisma-Monruce Rhaphiolepis Globosa-Globe Arborvitae Little Giant-Dwarf Arborvitae Enchantress-Moness Rhaphiolepis Nigra-Dark American Arborvitae India Hawthorn Springtime-Monme Rhaphiolepis Pyramidalis-Pyramid Arborvitae Rheingold Arborvitae Roundleaf Rhaphiolepis Techny Arborvitae Azalea/Rhododendron Aureus Nana-Dwarf Golden Arborvitae Minima Glauca-Dwarf Arborvitae Africa Sumac Ramanas Rose Christmas Palm Rosemary Japanese Skimmia Virburnum Weigela Reeve's Skimmia Xvlosma Anthony Waterer Spiraea Yucca

Ribbon Grass

Asaian Jasmine

Germander

Verbena

Speedwell

Stonecrop (Sedum)

#### **GROUND COVERS**

Largeleaf Iceplant Dwarf Plumbago Wooly Yarrow Descampsia Trailing Rosea Iceplant White Lily Turf Creeping Wirevine English Ivy Big Blue Lily Turf Lily-of-the-Nile Daylilly Myoporum Dwarf Mondo Grass Rupturewort Beechgrass Rockrose Iceplant Lilac Beauty Lily Turf Cape Weed Thrift Albo-Marginata Hosta Magestic Lily Turf Silvery Sunproof Lily Turf Mondo Grass Trailing African Daisy Coreopsis Blue Fescue Crown Vetch Strawberry, Beach Aaronsbeard Asparagus Fern Bellflower Japanese Spurge Fountain Grass Pamnas Grass Gazania St Johnswort Variedated Lirone Lily Turf Golden Hakonechloa Angelwing Jasmine Green/Creeping Lily Turf Variegated Carex White Iceplant Algerian Ivy Trailing Iceplant Eulalia Grass

Coast Leucothoe

Privet

Drooping Leucothoe

Flowering Woodbine

Chinese Fountain Palm

#### **ESTABLISHED FLOWERS**

Sweet Alyssum Pincushion Flower Yarrow Floss Flower Cornflower Dianthus Petunia Sunflower Marigold, Cape Velvet Centaurea Balsam Lupine Phlox Lamb's Ears Alyssum Snapdragon Snow on the Mountain Gaillardia Sweet Sultan Stock Four O'Clock Portulaca Stoke's Aster Impatiens Rose Marigold Chrysanthemum Ixora African Daisy Morningglory Geum Sweet Pea Forget-Me-Not Blackeved Susan Nasturtium Dusty Miller Coreopsis Gladiolus Statice Nicotiana Golden Glow Vinca Aster (perennial) Baby's Breath Poppy, California Lobelia Salvia Zinnia Cosmos

#### **ORNAMENTAL BULBS**

This product may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth and tulip. Apply to the soil surface 2 to 4 weeks after planting, but prior to the emergence of annual weeds. This product may also be applied following bulb emergence. For fall planted bulbs, apply this product again in later winter or early spring to weed-free soil surfaces.

#### NON-BEARING FRUIT AND NUT TREES AND NON-BEARING VINEYARDS IN ORNAMENTAL LANDSCAPING ONLY\*

Almond	Boysenberry	Fig	Kiwi	Orange	Pomegranate
Apple	Cherry, sour	Filbert	Lemon	Peach	Prune
Apricot	Cherry, sweet	Gooseberry	Loganberry	Pear	Raspberry
Avocado	Currant	Grape, American	Macadamia Nut	Pecan	Walnut, black
Blackberry	Dewberry	Grape, European	Nectarine	Pistachio	Walnut, English
Blueberry	Elderberry	Grapefruit	Olive	Plum	

\*Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants which will not bear fruit for at least one year after treatment.

#### NON-CROPLAND AREAS

This product is recommended as a preemergence herbicide for control of certain annual grasses and broadleaf weeds on industrial sites, utility substations, highway guard rails, sign posts and delineators. Apply anytime prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with postemergence herbicides. Refer to the "General Information" section prior to using this product on non-cropland.

### STORAGE AND DISPOSAL

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

STORAGE: Keep in original container in a cool, dry area, away from extreme heat and direct sunlight. Do not store near food, feed, seeds or other pesticides

Store in original container only. In case of leak or spill, contain material and dispose of as waste.

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

#### WARRANTY DISCLAIMER

The Manufacturer warrants that this product conforms to the chemical description of the label and is reasonably fit for the purpose stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. THE MANUFACTURER MAKES NO OTHER EXPRESSED OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESSED OR IMPLIED WARRANTY.

#### INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of the Manufacturer or the Seller. All such risks shall be assumed by Buyer.

#### WARRANTY

The Manufacturer warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions not reasonably foreseeable to Manufacturer, and Buyer assumes the risk of any such use.

**LEBANON SEABOARD CORPORATION** 

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Calendula