



TRIFLURALIN GROUP 3 HERBICIDE



Lebanon TREFLAN® 5G HERBICIDE

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

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

ACTIVE INGREDIENT:	
trifluralin	5.0%
OTHER INGREDIENTS:	95.0%
TOTAL	100.0%

Contains 2 lbs. active ingredient per 40 lbs. bag.

EPA Reg. No. 961-405 EPA Est. No. 961-PA-01:961-IL-01
 Treflan is a registered trademark of Gowan Company, L.L.C. Superscript used is first letter of lot number.
 Manufactured using the processes of U.S. Patents 4,120,905 and 4,226,789.

KEEP OUT OF REACH OF CHILDREN CAUTION

Refer to back panel of bag for additional 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

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.
- IF SWALLOWED:** • Call a poison control center or doctor for treatment advice.
- 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

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize drift.

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

WEED RESISTANCE MANAGEMENT

For resistance management, **Lebanon TREFLAN® 5G HERBICIDE** is a Group 3 herbicide. Any weed population may contain certain or develop plants naturally resistant to Lebanon **Lebanon TREFLAN® 5G HERBICIDE** and other Group 3 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

Rotate the use Lebanon **Lebanon TREFLAN® 5G HERBICIDE** or other Group 3 herbicides within a growing season with different herbicide groups that control the same weeds. Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of noncontrolled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning equipment.

If weed population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.

Contact your local extension specialist, pest control advisor, or local extension specialist for additional pesticide resistance management and/or integrated weed management recommendations for plants and weed biotypes.

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. Optimum weed control will be obtained when followed by overhead irrigation or rainfall within a few hours after surface application. **DO NOT** apply when wind conditions favor drift of the granules from the target area.

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

Common Name	Scientific Name	Common Name	Scientific Name
Barley, hare	<i>Hordeum leporinum</i>	Junglerice	<i>Echinochloa colonum</i>
Barlyardgrass (watergrass)	<i>Echinochloa crus-galli</i>	Lovegrass	<i>Eragrostis</i> spp.
Bluegrass, annual	<i>Poa annua</i>	Oat, Wild	<i>Avena fatua</i>
Brome	<i>Bromus</i> spp.	Panicum, fall	<i>Panicum dichotomiflorum</i>
Cheat	<i>Bromus secalinus</i>	Sandbur, field	<i>Cenchrus incertus</i>
Crabgrass	<i>Digitaria</i> spp.	Signalgrass	<i>Brachiaria</i> spp.
Cupgrass, Southwestern	<i>Eriochloa gracilis</i>	Sprangletop, Mexican	<i>Leptochloa univervia</i>
Fescue, raitail	<i>Vulpia myuros</i>	Slinkgrass	<i>Eragrostis ciliatensis</i>
Foxtail	<i>Setaria</i> spp.	Witchgrass	<i>Panicum capillare</i>
Goosegrass	<i>Eleusine indica</i>		

ANNUAL BROADLEAF WEEDS

Common Name	Scientific Name	Common Name	Scientific Name
Chickweed, common	<i>Stellaria media</i>	Nettle, stinging	<i>Urtica dioica</i>
Goosefoot, nettleleaf	<i>Chenopodium murale</i>	Pigweed	<i>Amaranthus</i> spp.
Knotweed, prostrate	<i>Polygonum aviculare</i>	Purslane, common	<i>Portulaca oleracea</i>
Kochia	<i>Kochia scoparia</i>	Thistle, Russian	<i>Salsola iberica</i>
Lambsquarters, common	<i>Chenopodium album</i>		

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.).

Common Name	Scientific Name	Common Name	Scientific Name
Carpetweed	<i>Mollugo verticillata</i>	Pusley, Florida	<i>Richardia scabra</i>
Johnsongrass (from seed)	<i>Sorghum halepense</i>	Shattercane	<i>Sorghum bicolor</i>
Panicum, Texas	<i>Panicum texacum</i>		

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.

This product must be soil-incorporated within 24 hours of application either by at least 0.5 acre inch of water (rainfall, irrigation) or mechanical incorporation. If a second incorporation is needed it should be delayed 3 to 5 days after the first incorporation and be completed prior to planting.

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.
- For treating smaller areas or rows of nursery stock or ornamental beds, a handheld or push-type rotary applicator such as whirlybird or cyclone unit is recommended. For handheld 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 overapplication.

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 preemergence 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
- Pots less than four inches wide
- 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:

TREES			
Scientific Name	Common Name	Scientific Name	Common Name
<i>Abies Balsamea</i>	Balsam Fir	<i>Ceratonia siliqua</i>	Carob
<i>Abies concolor</i>	White Fir	<i>Cercis canadensis</i>	Redbud
<i>Abutilon hybridum</i>	Albus Flowering Maple	<i>Chamaecyparis obtusa</i>	Filicoides-Fernspray Cypress
	Luteus Flowering Maple		Gracilis-Slender Hinoki Cypress
	Roseus Flowering Maple	<i>Chamaecyparis pisifera</i>	Swara False Cypress
	Tangerine Flowering Maple		Squarrosa-Moss Cypress
	Vesuvius Red-Flowering Maple	<i>Chamaedorea cataractarum</i>	Palm
<i>Acer ginnmala</i>	Flame Maple	<i>Chamaedorea costaricana</i>	Palm
<i>Acer platanoides</i>	Norway Maple	<i>Chamaedorea elegans</i>	Parlor Palm
<i>Acer rubrum</i>	Red Maple	<i>Cornus Florida</i>	Cloud Nine Dogwood
	Red Sunset Maple		Flowering Dogwood
<i>Acer Saccharinum</i>	Silver Maple	<i>Cornus Kousa Kousa</i>	Kousa Dogwood
<i>Acer Saccharum</i>	Sugar Maple	<i>Crataegus viridis</i>	Green Hawthorn
<i>Areacastrum romanzoffianum</i>	Queen Palm	<i>Cupaniopsis anacardioides</i>	Carrot Wood
<i>Betula nigra</i>	River Birch	<i>Cupressus glabra</i>	Arizona Cypress
<i>Betula papyrifera</i>	Paper Birch	<i>Elaeagnus angustifolia</i>	Russian Olive
<i>Betula pendula</i>	European White Birch	<i>Eucalyptus camaldulensis</i>	Redgum Eucalyptus
<i>Brachycthon populneus</i>	Bottle Tree	<i>Eucalyptus cinerea</i>	Mealy Eucalyptus
<i>Bucida Buceras</i>	Black Olive		Silver Dollar Eucalyptus
<i>Castanea mollissima</i>	Chinese Chestnut	<i>Eucalyptus microtheca</i>	Coolibah Tree

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For technical assistance or more information about our products visit www.LebanonTurf.com

Manufactured by:
Lebanon Seaboard Corporation
1600 E. Cumberland St. • Lebanon, PA 17042

Made in the U.S.A.
www.LebanonTurf.com

NET WT.: 40 LBS. (18.14 KG)

