

Treflan* Granular Herbicide

GROUP	3	HERBICIDE
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A Selective Surface Applied Herbicide for Preemergence Weed Control in Woody Ornamental Planting and Nursery Stock (Field and Container Grown)

COMMERCIAL

READ THE LABEL BEFORE USING.
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: Trifluralin 5%
Granular

POTENTIAL SKIN SENSITIZER

REGISTRATION NO. 20836 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 25 kg

Gowan Company, L.L.C.
P.O. Box 5569
Yuma, AZ 85366-5569
United States
1-800-883-1844

PRECAUTIONS:
POTENTIAL SKIN SENSITIZER

DO NOT apply by air.

Harmful if swallowed or absorbed through the skin. Avoid contact with skin eyes or clothing. Avoid contamination of foodstuffs, feed and fish ponds.

All handlers must wear a long-sleeved shirt and long pants. In addition, wear chemical-resistant gloves during mixing, loading, repair and clean-up activities.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

FIRST AID

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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 eye. Call a poison control centre or doctor for treatment advice.

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL

Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL HAZARDS

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay. Avoid application of the product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

STORAGE AND USE:

Store in areas not exposed to high temperatures or prolonged, direct sunlight. Also, do not let product remain in standing applicators under these conditions. After filling the granular applicator, close the lid immediately to avoid prolonged exposure to direct sunlight. Partly used bags should be sealed and stored as described.

DISPOSAL

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site, make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

INSTRUCTIONS

FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR DAMAGE TO WOODY ORNAMENTAL NURSERY STOCK. READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING.

TREFLAN GRANULAR is a preemergence herbicide, which is applied to the soil surface to provide long-lasting control of many annual grass and broadleaf weeds. TREFLAN GRANULAR controls susceptible weeds by killing seedlings as they germinate. It does not control established weeds.

TREFLAN GRANULAR provides effective weed control when applied to the soil surface. For effective weed control, the surface application of TREFLAN GRANULAR must be followed by overhead irrigation or rainfall (2 cm minimum). To prevent possible injury to the crop foliage, irrigation (or rainfall) is recommended as soon as possible after application but may be delayed for up to 24 hours.

TREFLAN GRANULAR may be applied either pre-plant or post-plant, providing all label directions are followed. If pre-plant application and incorporation is possible TREFLAN* E.C. should be used. Follow the application and incorporation instructions on the TREFLAN E.C. label.

TREFLAN GRANULAR is recommended for use on a wide variety of established field stock, container stock, or on woody ornamental beds. Use on species other than those listed on this label may result in plant injury.

DIRECTIONS FOR USE

- 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.
- Discard clothing or other absorbent materials that have been having contaminated with this product. DO NOT reuse them.
- Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- To minimize the release of trifluralin into the environment due to volatilization, trifluralin should only be applied on cool mornings and evenings when air temperatures are 15°C or lower. To further reduce volatilization to the atmosphere, incorporation into the soil should occur concurrently with application.

APPLICATION:

The first TREFLAN GRANULAR application should be made early in the spring before weed seed germination, or immediately after removing all existing weed growth. Do not apply TREFLAN GRANULAR to plantings when foliage is wet. Application should be made to smooth soil surface (no large clods) to assure uniform distribution of granules.

Either a drop-type or a rotary-type granular herbicide or insecticide applicator may be used. Calibrate according to manufacturer's directions prior to use and check frequently during application to ensure uniform distribution.

APPLICATION RATES:

For all soils the TREFLAN GRANULAR rate is: 90 kg/ha or 900 g/100 sq.m.

WEED CONTROLLED	
Annual Grasses	Annual Broadleaves
Green and Yellow Foxtail	Pigweed*
Barnyard Grass	Lamb's-quarters*
Crab Grass	Chickweed
Brome Grass	Purslane
Cheat	Knotweed
Stink Grass	Carpetweed
Goose Grass	
Annual Bluegrass	
Wild Oats	
Fall Panicum	*including Triazine-tolerant varieties

Note: When used as directed, TREFLAN GRANULAR will provide commercially-acceptable control of the above weeds.

TOLERANT ORNAMENTAL SPECIES

ORNAMENTAL WOODY SHRUBS	
Scientific Name	Example Common Names
<i>Euonymus fortunei</i>	Emerald Gaiety Euonymus Coloratus
<i>Cotoneaster dammeri</i>	Peking
<i>Juniperus chinensis</i>	Pfitzer Juniper, Mountbatten
<i>Juniperus horizontalis</i>	Wiltonii, Plumosa compacta
<i>Juniperus sabina</i>	Arcaida Juniper, Blue Danube
<i>Juniperus scopulorum</i>	Blue Haven Juniper, Wichitaw Blue Juniper
<i>Juniperus virginiana</i>	Sky Rocket Juniper
<i>Philadelphus coronarius</i> *	Golden Mock-Orange
<i>Spirea arguta</i>	Garland Spirea, Grefsheim
<i>Spirea bumalda</i>	Anthony Waterer Spirea, Froebelli Spirea, Golden Flame Spirea
<i>Taxus cuspidata</i>	Japanese Yew, Capitata
<i>Taxus media</i>	Densiformis, Brownii
<i>Thuja occidentalis</i> *	Emerald, Eastern White Cedar

*Use TREFLAN GRANULAR only on ESTABLISHED philadelphus and Thuja. Injury may result on cuttings and new plantings.

ORNAMENTAL TREES	
Scientific Name	Example Common Names
Cornus alba	Red Stemmed Dogwood, Baileys Dogwood
Picea abies	Norway Spruce, Bird's Nest Spruce
Picea glauca	Dwarf Alberta Spruce, Black Spruce
Picea mariana	White Spruce
Picea pungens	Globe Spruce, Colorado Spruce
Pinus mugo	Mungo Pine
Pinus nigra	Austrian Pine

SITE ROTATION AND SOIL RE-USE

Do not plant non-tolerant species into TREFLAN GRANULAR-treated soils for a minimum of two years after last application as plant injury may result. In particular, three ornamental ground cover species, which are not tolerant to TREFLAN GRANULAR, should not be planted in TREFLAN-treated soil. They are AJUGA, MYRTLE and PACHYSANDRA.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Treflan Granular is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to Treflan Granular and other Group 3 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of Treflan Granular or other Group 3 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Gowan Company, L.L.C. Inc. at 1-800-883-1844.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.