



TO OPEN: Cut along dotted line



# Preen®



**STOP WEEDS\* Before They Start!**

**SPRINKLE AROUND TREES, SHRUBS**



Trifluralin CAS No. 1582-09-8  
Isoxaben CAS No. 82558-50-7

<b>ACTIVE INGREDIENTS:</b>	
Trifluralin .....	1.500%
Isoxaben .....	0.375%
Other Ingredients .....	98.125%
TOTAL .....	100.000%

\*See Use Directions for complete list of treated weeds.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See back panel for First Aid and additional Precautionary Statements.

**Covers 1,630. Sq. Ft. (151.43 m<sup>2</sup>) | Net Wt. 10 lbs. (4.54 kg)**

**This product is not for use on lawns or vegetable gardens.**

## Killing Weeds vs. Weed Prevention



**Pulling or spraying only eliminates weeds\* already above ground.**



**Preventing creates a barrier that stops weeds\* from germinating.**

## Apply Spring, Summer or Fall.

To keep ornamental beds weed-free\* all year long, reapply this product every 6 months.

\* See Use Directions for complete list of treated weeds.

# The Preen® Routine

## Easy Steps to Weed Prevention



**Remove Existing Weeds**



**Sprinkle Product Evenly**



**Water Product Into Soil**

## PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals CAUTION

Causes moderate eye irritation. Harmful if swallowed or inhaled. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Avoid breathing dust and contact with eyes or clothing. Wear long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, and shoes plus socks. Wash thoroughly with soap and water after handling.

### FIRST AID

<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>

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.

### USER SAFETY RECOMMENDATIONS

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing immediately if drenched or if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove clothing immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### Environmental Hazards

This product is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the garden will help to prevent run off to water bodies or drainage systems.

**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.

**Ground Water Advisory:** This pesticide has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

**Surface Water Advisory:** This pesticide may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soil and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of isoxaben from runoff water and sediment.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Intended for outdoor residential use.

## Product Information

This product prevents most weeds from germinating for up to 6 months in xeriscape settings, in rock gardens and in flower perennial beds, and around Southwest perennials, ground covers, trees and shrubs. Although this product will not kill existing weeds, it will prevent new listed weeds from sprouting – eliminating the need for difficult and time-consuming hand weeding. Without weeds, your valuable plants can grow larger and stronger. The use of this product with 6-month weed protection in late fall will help keep early spring weeds from germinating and will make spring garden weed preparation easier.

## Precautions

**This product is not for use on lawns or vegetable gardens.**

To prevent possible staining to unintended surfaces, ex.: concrete, stone walks, vinyl surfaces, etc., sweep up stray granules as soon as possible.

**Do not apply this product to:**

- Newly transplanted ornamental plants listed in this label, until soil is settled by packing or irrigation and no cracks are present or injury may occur.
- Ground covers until they are established and well rooted.
- ballerina cranesbill, Bertram Anderson lingwort, bugle, cajeput tree, candytuft, Carolina rhododendron, dwarf burning bush, foxglove, green yucca, hydrangea, luxuriant bleeding heart, mountain sandwort, mustard, oak leaf acanthus, Prince of Wales juniper, purple coneflower, Roseum elegans rhododendron, spurge, stonecrop, summer phlox, white festival baby's breath, wine periwinkle.

### USE RESTRICTIONS

Not for sale, distribution or use in New York State. DO NOT apply by air. DO NOT apply Preen Extended Control Weed Preventer to turf grass grown for seed.

## Entry Restrictions

Do not allow people or pets to enter the treated area until dusts have settled. If product is watered-in, do not enter or allow others (except those involved in the watering) to enter the treated areas until the watering-in is complete and the surface is dry.

### WEEDS CONTROLLED

<b>Broadleaf Weeds:</b>	fireweed fleabane, blackleaved fleabane, dwarf galinsoga, hairy geranium, Carolina goosefoot, nettleleaf groundcherry, lanceleaf groundsel, common henbit horseweed jimsonweed knotweed, prostrate knotweed, silversheath kochia ladysthumb lambsquarters, common lettuce, prickly mallow, dwarf mallow, little mallow, venice† marestail mayweed medic, black milkweed, honeyvine† momingglory, ivyleaf momingglory, tall† mullein, turkey	mustard, black mustard, Indian mustard, wild nettle, burning nettle, stinging nightsshade, black oxtongue, bristly pennywort pepperveed, Virginia phyllanthus, long-stalk pigweed pimpemel, scarlet pineappleweed plantain, bracted plantain, broadleaf plantain, buckhorn plantain, slender pokeweed, common purslane, common pusley, Florida† radish, wild ragweed, common rocket, London rockpurslane, desert rockpurslane, redmaids shepherdspurge sibara	sida, prickly smartweed, Pennsylvania sorrel, red sowthistle, annual sowthistle, spiny speedwell, purslane speedwell, thymeleaf spurge, hyssop spurge, petty spurge, prostrate spurge, spotted sunflower sweetclover, yellow swinecress tansymustard, green telegraphplant thistle, musk thistle, Russian velvetleaf willoweed, panicle woodsorrel, creeping woodsorrel, yellow	bromegrass cheat crabgrass cupgrass, southwestern fescue, raitail foxtail, giant foxtail, yellow goosegrass johnsongrass (seedling)† jungerlice lovegrass oat, wild panicum, fall panicum, Texas† ryegrass, annual sardbur, field shattercane† signalgrass sprangletop, Mexican stinkgrass witchgrass	†partially controlled or suppressed
		<b>Grassy Weeds:</b> barley, hare barnyardgrass bluegrass, annual			

## When to Apply

Apply this product at the end of the growing season for weed protection throughout the winter months and into early spring. This product will keep early spring weed seeds from germinating.

Apply this product anytime during the growing season around established ornamental plants in xeriscape settings, in rock gardens and in flower perennial beds, and around Southwest perennials, ground covers, trees and shrubs.

Since this product does not kill existing weeds, you must first remove any weeds that have already begun to grow. By applying this product as early as possible before weeds emerge, you can eliminate the need for hand weeding.

To keep ornamental beds weed-free\* all season long, reapply this product every 6 months. Repeat applications should not be made sooner than 60 days after a previous application of this product. Do not exceed 18.37 lbs. of this product per 1000 sq. ft. per year (equivalent to 800 pounds of this product per acre).

\*See Weeds Controlled section for complete list of treated weeds.

## How to Apply

Before applying this product, remove any weeds that have begun to grow. Sprinkle this product around established plants listed on this label and on soil or gravel at the surface rate.

**Note:** if you will be planting into a site treated with this product in the previous 12 months, use untreated soil as fill around roots when transplanting plants, or injury may occur.

When activated by watering, this product forms a weed control barrier, preventing weed seeds from germinating. Disturbance to the soil or gravel surface after activation may result in erratic weed control. For best results immediately water this product into soil or gravel surface. If watering-in is not convenient, lightly rake into soil or gravel surface.

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.

## Applying Around Established Plants & Transplants

For established perennials, ground covers, shrubs and trees: sprinkle this product evenly over the entire soil or gravel surface at the **rate of 0.98 oz. per 10 sq. ft.**, being sure to keep granules away from plant roots. Do not over-apply as injury may occur to plants which are sensitive to this product.

**Surface Application Rate: Sprinkle granules at the density shown in this picture.**



## Applying Around Ornamental Bulbs

Preen Extended Control Weed Preventer may be applied for the control of annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth and tulip. Apply this product to the soil or gravel at surface rate 2 to 4 weeks after planting but prior to the emergence of annual weeds. This product may also be applied following bulb emergence but prior to flowering and after flowering.

For fall planted bulbs, apply this product in late winter or early spring to soil or gravel surface.

Do not apply to tulip plants that have emerged to a height greater than 3/4 inch. Do not apply to gladiolus prior to emergence or if corms are less than one inch in diameter. Do not apply to bulbs while they are flowering.

### Applying Preen Extended Control Weed Preventer With Mulch Or Gravel

For best weed control, apply this product after spreading mulch or gravel on your beds. Sprinkle this product on top of mulch or gravel at the surface rate.

### This product is Suggested For Use Around These Established Plants

<b>Trees</b>	coolibah tree corkscrew willow cottonwood cryptomeria, Japanese dogwood, flowering dwarf Alberta spruce dwarf globe blue spruce eastern hemlock eastern white pine eldarica pine emerald island leyland cypress eucalyptus, mealy eucalyptus, red ironbark ficus filicoides-fernspray cypress fir, balsam fir, white flame maple Florida anise-tree giant sequoia gilt edge silverberry ginkgo (maidenhair tree) glauca-Colorado blue spruce gracilis-slender hinoki cypress green hawthorn honey locust	hoopsii-hoop's blue spruce Italian cypress Japanese black pine koster-koster blue spruce live oak luteus-flowering maple magnolia, Southern mahogany Mexican fan palm mini ficus monterey pine palm ( <i>chamaedorea costaricana</i> ) paper birch parlor palm pendula-weeping Norway spruce pin oak podocarpus pumilio-shrubby swiss mountain pine queen palm red gum eucalyptus red maple red oak red sunset maple redbud redcedar, eastern repens-spreading Norway spruce	roseus-flowering maple Russian olive sawara-false cypress Scotch pine shademaster honey locust shamel ash shore pine, beach pine silver dollar eucalyptus silver maple sourwood spruce, Norway squarrosa-moss cypress sweetgum, American tangerine-flowering maple Tasmanian tree fern toyon vesuvius red-flowering maple white mulberry white pine willow oak yellow tab yoshino flowering cherry
<b>Shrubs</b>	cape honeysuckle cape mallow Carolina jessamine caror azalea cassia, feathery catawba album rhododendron catawba rhododendron century plant charisma-monruce raphiolepis cherry bomb barberry China boy holly China girl holly Chinese fountain palm Chinese lilac chionoides rhododendron chirimen marlberry chollipo euonymus Christmas palm cinquefoil cleleya, Japanese common snowball viburnum compacta-compact inkberry holly compacta-dwarf heavenly bamboo compacta-dwarf Japanese holly convexa holly copper leaf coral beauty smoke tree coral bark Japanese maple coral bells azalea cornish heather cotoneaster cotoneaster, bearberry cotoneaster, cranberry cotoneaster, Pyrenees cotoneaster, rock coyotebush cranberry bush creeping juniper creeping mahonia crepe myrtle crimson pygmy barberry cunningham white rhododendron daphnoides rhododendron dark knight bluebeard david viburnum dolchia spiraea doublefile viburnum dusty-miller/silver ragweed dwarf andorra juniper	dwarf brush cherry dwarf burford holly dwarf Chinese holly dwarf cranberry bush dwarf euryops dwarf Japanese maple dwarf Oregon grape dwarf pink flowering almond dwarf scarlet wonder rhododendron ebony magic holly edward goucher abelia eichholz smoke tree elizabeth rhododendron emerald 'n gold euonymus emerald arborvitae emerald green juniper emerald sea-shore juniper enchantress-moress raphiolepis English lavender ( <i>Lavandula angustifolia</i> ) English lavender ( <i>Lavandula officianalis</i> ) English roseum rhododendron English spike lavender False spirea fashion azalea filifera-thread cypress first snow spiraea flame azalea flaviramea-dogwood flaviramea-yellowtwig dogwood flowering woodbine foemina-hicks juniper forest flame lily-of-the-valley formosa azalea forsythia border fortunes osmanthus fragrant daphne fraser's photinia fringe flower fruitland silver berry gardenia gerard christina azalea girard roberta azalea globosa-globe arborvitae glossy abelia gold coast holly gold drop potentilla gold spot euonymus golden fire azalea	golden flare azalea golden flare exbury azalea goldfinger potentilla gomer waterer rhododendron green luster holly green pittosporum green velvet boxwood gumpo pink azalea harbor dwarf-heavenly bamboo hardy red oleander heavenly bamboo (nandina) helene, rose of sharon helleri-heller's Japanese holly helmut vogel azalea henry garnet holly leaf sweetspire hershey red azalea hetzii's Japanese holly Himalayan cotoneaster hino crimson azalea hino pink azalea hino-crimson azalea Hollandia-Scotch broom Hollandia-warmminster broom hopeseed bush hot shot azalea howardi privet hume azalea huntington blue juniper inga azalea irene koster azalea ixora Japanese alpine spiraea Japanese aralia Japanese painted fern Japanese skimmia Japanese spurge java red weigela jean marie rhododendron klondyke azalea Korean boxwood Koreanspice viburnum kosteri cypress lantana laurel, mountain

## Shrubs - (continued)

lantana  
laurel, mountain  
leather leaf mahonia  
lena-Scotch broom  
leucothoe, coast  
leucothoe, drooping  
lilac, common  
lily-of-the-valley  
little giant-dwarf arborvitae  
lodense privet  
lolendei monrovia pyracantha  
lord roberts rhododendron  
media-old gold juniper  
Mediterranean pink heather  
mentor barberry  
mildred azalea  
minima glauca-dwarf arborvitae  
minuet weigela  
monon pyracantha  
mountain fire lily-of-the-valley  
mugo-mugho pine  
mystery gardenia  
nakiana-dwarf deutzia  
nan-dwarf yaupon holly  
nana compacta-heavenly bamboo  
nana purpurea-heavenly bamboo  
nana-dwarf hinoki cypress  
nana-dwarf Japanese garden juniper  
needle point holly  
New Zealand tea tree  
nigra-dark American arborvitae  
nordica-inkberry holly  
nova zembla rhododendron  
oleander  
Paraguay nightshade  
parsonii juniper  
pendula-weeping yaupon holly  
pfitzer juniper  
pfizerana glauca-blue juniper  
pfizerana-pfizer juniper  
pigmy date palm  
pink breath of heaven  
pink dawn viburnum  
pink pixie  
PJM rhododendron  
plum yew  
plumbago  
plumosa-andorra juniper  
praecox-early cotoneaster  
president clay azalea  
privet, glossy  
privet, golden  
privet, Japanese  
prostrata juniper  
purple bell heather  
purple gem rhododendron  
pyramidalis arborvitae  
queen anne lily of the Nile  
radican gardenia  
ramanas rose  
ramapo rhododendron  
red ace potentilla  
red apple aptenia  
red bird rose of sharon  
red elf hybrid pyracantha  
red heart rose of sharon  
reeve's skimmia  
reijn azalea  
rhapiolepis (India hawthorn)  
rheingold arborvitae  
rhodie max (rosebay)  
rhododendron (*rhododendron impeditum*)  
rhododendron (*rhododendron mucronulatum*)  
rocket rhododendron  
rose glow barberry  
rosemary  
ross estey-hibiscus  
roundleaf raphiolepis  
royal purple smoke tree

ruby lace oleander  
rutgers hybrid pyracantha  
sago palm  
sala/lemon leaf  
san jose holly  
santa cruz pyracantha  
savannah holly  
savin juniper  
scarlet o'hara  
scintillation rhododendron  
sea green juniper  
serotina woodbine  
shirobana spiraea  
shoestring acacia  
shore juniper  
sibirica-Siberian dogwood  
silver king euonymus  
slender gracilis  
snow azalea  
snow-in-summer  
snowdrift lily-of-the-valley  
spreading euonymus  
spring bouquet viburnum  
spring cinquefoil  
spring glory forsythia  
spring torch Scotch heather  
springtime-monme raphiolepis  
squarosa minima cypress  
stokesii Japanese holly  
sumac, African  
summersweet  
sunset potentilla  
sunspot euonymus  
sweet pea shrub  
tamariscifolia-tam juniper  
tangerine potentilla  
tassel fern  
tea viburnum  
techny arborvitae  
temple bells lily-of-the-valley  
temple fire  
ternstroemia, Japanese  
Texas dawn  
torulosa cypress  
torulosa-hollywood juniper  
tradition azalea  
tribly rhododendron  
trumpet honeysuckle  
unique rhododendron  
valley rose lily-of-the-valley  
valley valentine lily-of-the-valley  
variegated evergreen euonymus  
viburnum (*viburnum japonicum*)  
vicary golden privet  
victory pyracantha  
vulcan rhododendron  
waucabusa azalea  
wax leaf privet  
wax ligustrum  
wax myrtle  
wayfaring tree  
weeping bottlebrush  
wheeler's dwarf pittosporum  
wild lilac  
william penn barberry  
wiltonii-blue carpet juniper  
winter honeysuckle  
woadwaxen  
woodbridge rose of sharon  
woods dwarf-heavenly bamboo  
woodwardii arborvitae  
xylosma  
yaupon holly  
yellow tip ligustrum  
yew, Japanese  
yewpine  
yucca

## Groundcovers & Perennials

African iris  
albo-marginata hosta  
amaryllis  
angelita daisy  
angels' hair  
angelwing jasmine  
apple blossom penstemon  
Asian jasmine  
autumn joy stonecrop  
bee balm  
beechgrass  
big blue lily turf  
blackeyed magenta cranesbill  
blackeyed susan  
blanket flower  
blue bell clematis  
blue fescue  
blue siberian iris  
broom treatree/manuka  
busy lizzie  
cape weed  
China aster  
chrysanthemum species  
common yarrow  
coral bells  
coreopsis, threadleaf  
cranesbill  
crimson fountaingrass  
crimson treasure cheddar pink  
daylily  
deschampsia  
deutschland astilbe  
dotted loosestrife  
dwarf dahlia wendy pink  
dwarf euryops  
dwarf horsetail  
dwarf katie ruellia  
dwarf mondo grass  
dwarf plumbago  
dwarf umbrella grass  
dwarf zinnia

eulalia grass  
false or Mexican heather  
fern  
florist's chrysanthemum  
fortnight lily  
fountain grass  
francee plantain lily  
freeway daisy  
garden petunias  
gaura  
gay feather  
gazania  
gazania, trailing  
goblin blanket flower  
gold coin daisy  
golden hakonechloa  
graham's sage  
green/creeping lily turf  
hardy pampasgrass  
hartwig penstemon  
heartleaf begonia  
honeysuckle, Japanese  
ice plant, largeleaf  
ice plant  
ivy geranium  
ivy, Algerian  
ivy, English  
Japanese spurge  
kafir lily  
lilac beauty lily turf  
lily of the Nile  
little hero marigold  
lobelia  
Madagascar periwinkle  
majestic lily turf  
Mexican bush sage  
Mexican hat  
mondo grass  
monroe white lily turf  
New England aster  
New York aster  
palace purple

pampas grass  
Paris daisy  
patriot plantain lily  
periwinkle  
periwinkle, bigleaf  
periwinkle, dwarf  
Peruvian lily  
peter's gold bidens  
pink lisianthus  
red abyssinian banana  
red yucca  
ribbon grass  
Russian sage  
santa claus fuchsia  
sedge  
silvery sunproof lily turf  
siskiyou evening primrose  
snapdragon  
snow in the summer  
society garlic  
St. Johnswort  
St. Paul verbena  
star cluster  
statice  
stock  
swan river daisy new amethyst  
sweet alyssum  
trailing ice plant  
trailing rosea ice plant  
tree fern  
variegated liriopelily turf  
vera jameson stonecrop  
Virginia creeper  
wallflower  
white ambassador begonia  
white ice plant  
white licorice plant  
white lily turf  
yellow dwarf bearded iris  
zonal geranium

## Non-bearing fruit and nut tree and non-bearing vineyards\*\*

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.

Users who wish to use this product on plant species not listed on this label may determine the suitability for use by treating a small number of such plants. Prior to treatment of larger areas, the treated plants should be observed for any sign of herbicidal injury for 30 to 60 days of normal growing conditions. The user assumes responsibility for any plant damage or other liability resulting from use of this product on plant species not listed in this label.

\*Do not apply to any plant intended for food or feed.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store product in its original container in a cool, dry, locked place out of the reach of children and animals.

**Pesticide Disposal and Container Handling:** Nonrefillable container. Do not reuse or refill this container.

**If empty:** Place in trash or offer for recycling if available.

**If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## Warranty

**Note:** To the extent consistent with applicable law, Buyer assumes all responsibility for safety and performance if this product is not used according to the directions.

## PREEN GUARANTEE

To the extent consistent with applicable law, Lebanon Seaboard Corporation guarantees you will be satisfied with the performance of this product when used as directed, or your money back. If not satisfied, describe the nature of your problem, and send with proof of purchase to Lebanon Seaboard Corporation, 1600 E. Cumberland St., Lebanon, PA 17042.

Manufactured by / Fabricado por:  
**LEBANON SEABOARD CORPORATION**  
1600 EAST CUMBERLAND STREET  
LEBANON, PA 17042

1-800-233-1067 • www.preen.com

Preen® is a registered trademark of Lebanon Seaboard Corporation

Trifluralin CAS No. 1582-09-8  
Isoxaben CAS No. 82558-50-7  
EPA Reg. No. 961-421

(L) (D)  
EPA Est. No. 961-PA-01; 961-IL-01

Superscript used is first letter of lot number.

