

BASF

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ACTIVATION

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NOV 30 1994

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

7969-45

Basagran® T/O

herbicide

Postemergence Herbicide

For homeowner use in established turf and ornamentals for the control of broadleaf weeds and sedges.

A soluble liquid formulation containing:

Active ingredient:

Sodium salt of bentazon*42.0%

Inert ingredients58.0%

Total100.0%

*Equivalent to 4 pounds per gallon bentazon (3-(1-methylethyl)-1H-2,1,3-benzothiadiazin-4-(3H)-one 2,2-dioxide)

EPA Reg. No. 7969-45

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Avoid contact with eyes or skin. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. May cause allergic skin response.

First Aid: If contacted, flush eyes immediately with water for at least 15 minutes. Call a physician.

Net contents 8 fluid ounces

BEST

BASF Corporation
P.O. Box 13528, Research Triangle Park, NC 27709

Specimen Label

Precautionary Statements
Hazards to Humans (and
Domestic Animals)

CAUTION

Avoid contact with eyes or skin. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. May cause allergic skin response.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water with disposal of equipment wash waters.

Storage and Disposal

Storage: Keep pesticide in original container. Do not put concentrate or dilute spray into food, feed, or drink containers. Avoid contamination of feed and foodstuffs. Store in a cool, dry place, preferably in a locked storage area. Do not store diluted spray.

Disposal: Securely wrap the original container in several layers of newspaper and discard in trash.

Container: Do not re-use empty container.

Notice: It is a violation of federal law to use any pesticide in a manner that results in the death of an endangered species or in adverse modification of their habitat.

The use of this product may pose a hazard to certain federally designated endangered species known to occur in specific areas within the California counties of Merced, Sacramento, and Solano. Before using this product in these counties you must obtain the EPA Endangered Species Bulletin specific for these areas. The bulletin (EPA/ES-85-8) is available from either your county Agricultural Extension Agent, the Endangered Species Specialist in your State Wildlife Agency Headquarters, or the Regional Office of the U.S. Fish and Wildlife Service (Portland, Oregon). **The use of this product is prohibited in these counties unless specified otherwise in the bulletin.**

In Case of Emergency

In case of medical emergency regarding this product, call:

1. Your local doctor for immediate treatment.
2. Your local poison control center (hospital).
3. BASF Corporation 800-832-HELP

Notice: Buyer assumes all liability, including personal injury and property damage, which may result from the use of this product in a manner inconsistent with labeling directions. If these terms are not acceptable, return at once unopened.

Directions For Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

The following **Directions For Use** are applicable when **Basagran® T/O herbicide** is intended for homeowner use in established turf and ornamentals.

Read the entire label for **Directions For Use and Precautionary Statement**.

Established Turf
General Information

Basagran T/O is a selective postemergence herbicide for the control of broadleaf weeds, annual sedges, and yellow nutsedge in established turf. **Basagran T/O** does not control grasses.

Basagran T/O is effective mainly through contact action; therefore, all plants must be thoroughly covered with spray. Weeds controlled by **Basagran T/O** in turf are annual sedges, yellow nutsedge, spurweed, lambsquarters, Venice mallow, shephards-purse, smartweed, chickweed, common groundsel, lady's thumb, jimsonweed, galinsoga, common purslane, cocklebur, beggarticks, wild mustard, wild poinsettia, wild buckwheat, velvetleaf, Canada thistle, and musk thistle.

Weeds suppressed by **Basagran T/O** include: common ragweed, giant ragweed, wild sunflower, and morningglory. Some weeds not controlled include: purple nutsedge, pigweed, plantain, dandelion, onion/garlic, wood sorrel, and spurge.

Application Information

Basagran T/O may be used on established bluegrass, fescue, bentgrass, bermudagrass, bahiagrass, centipedegrass, zoysiagrass, ryegrass, and St. Augustinegrass.

Refer to **Table 1, Application Rate Table for Established Turf** on page 3 for recommended rates of **Basagran T/O** and volumes of water.

Apply **Basagran T/O** postemergently to weeds that are actively growing and under good soil moisture conditions. If desired control of yellow nutsedge or Canada thistle is not obtained with the first application, make additional applications at intervals of 10-14 days or when new growth appears.

In the northern United States, yellow nutsedge can emerge from May through July; whereas, in the southern United States, nutsedge and broadleaf weeds can emerge throughout the year. Therefore, initial applications should be planned when most plants have emerged. If new plants emerge later in the season, make additional applications of **Basagran T/O** in accordance with the label directions. In unmowed turf, make first application after emergence but before yellow nutsedge, annual sedge and Canada thistle are 8 inches tall. Annual broadleaf weeds should be no taller than 4 inches. Thorough spray coverage of yellow nutsedge is essential for maximum control.

zie of 40 psi.

Mixing

Fill the tank of a thoroughly clean sprayer half to two-thirds full with clean water. Add **Basagran® T/O herbicide** and shake or stir the spray solution so that **Basagran T/O** and water mix thoroughly.

Mix only enough spray solution for one usage; a fresh spray mixture should be used each application.

Addition of Oil Concentrate

A nonphytotoxic oil concentrate (commonly referred to as oil concentrate) may be added to the spray tank for certain weed problems. The oil concentrate must contain either a petroleum or vegetable oil base and must meet the following criteria: 1) be nonphytotoxic, 2) contain only EPA-exempt ingredients, 3) provide good mixing quality, and 4) be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers which provide good mixing quality. For vegetable oil concentrates, it has been observed that highly refined vegetable oils are more satisfactory than unrefined vegetable oils.

With the addition of oil concentrate to **Basagran T/O**, a slight leaf burn may occur when relative humidity and temperature are high. Refer to your supplier of **Basagran T/O** for information concerning successful local experience prior to purchasing any oil concentrate.

Rate of Oil Concentrate

Use 0.75 fluid oz per 1,000 square feet or a proportionate amount for other sized areas.

trate and the remaining volume of water. Again, shake or stir the spray solution so that the **Basagran T/O**, oil concentrate, and water mix thoroughly. Mix only enough spray solution for one usage; a fresh spray mixture should be used each application.

Restrictions and Limitations

Do not apply **Basagran T/O** to turf that has been under stress such as drought, cold temperature or injury from other herbicides.

Do not apply **Basagran T/O** to any newly seeded or newly sprigged turf until seedlings or sprigs are well established, as injury may result.

Do not apply **Basagran T/O** to golf course greens or collars.

In perennial ryegrass, apply no more than 0.75 fluid ounces per 1000 square feet at one time and make subsequent applications no less than 21 days later.

Do not apply more than 2.25 fluid ounces per 1000 square feet in one season.

Rainfall or sprinkler irrigation soon after application (within 8 hours) may nullify the effectiveness of **Basagran T/O**.

Clean sprayer thoroughly prior to application of **Basagran T/O**, particularly if a herbicide was used which has the potential to injure the turf to be sprayed with **Basagran T/O**.

When treating turf with **Basagran T/O**, avoid over-the-top spraying of adjacent ornamental trees, shrubs, and flowers. Spraying near the base of established ornamental trees, shrubs, and flowers should not result in injury except for sycamore and rhododendron.

soak damage to desired ornamental plants. Rinse equipment with soap and water after use.

Sprayer Calibration Suggestions Hand Sprayers:

1. Stake off a 400 sq. ft. area of turf for practice. This is an area 20 ft. (7 steps) x 20 ft.
2. Add a measured quantity (1.5 gallons for example) of water to the sprayer and uniformly spray the 400 sq. ft. area. Measure water remaining and thereby determine the amount applied per 400 sq ft area. (Note: A minimum of 3 pints/400 sq. ft. is recommended).
3. Prepare spray solution according to **Application Rate Table for Established Turf**.

Example: Assume that in Step 2 the 400 sq ft area was uniformly covered with 0.5 gallon of water. Referring to the table, add **Basagran T/O** at the rate of 2-4 teaspoons per 0.5 gallon of water for each 400 sq. ft. of turf to be sprayed. (Note: Use of this mixture for spot spraying of individual weeds may result in an excessive dosage and possible turf injury.)

Hose-end Applicator

A procedure similar to the above may be followed for calibrating hose-end sprayers. Half-fill container with water to an even mark on the "gallons" scale and note the gallonage level. Spray the 400 sq. ft. area, noting the new gallonage reading, and thereby determine the amount of water used to spray the area. Then proceed as in Step 3 above.

**Table 1: Application Rate Table for Established Turf
Application Rates***

Area to be Sprayed	200 sq. ft.	400 sq. ft.	1000 sq. ft.
Basagran T/O	1-2 teaspoons	2-4 teaspoons	0.75-1.5 fl. oz. (5-10 teaspoons)
Water**	0.2-0.4 gallons (1.6-3.2 pints)	0.4-0.8 gallons (3.2-6.4 pints)	1-2 gallons

* For yellow nutsedge, make subsequent applications at 10-14 day intervals until eliminated. Apply no more than 2.25 fluid ounces per acre in one season.
** Quantity of water required to uniformly spray this area with your sprayer. If unknown, refer to preceding section **Sprayer Calibration Suggestions**.

page 5 for recommended rates of **Basagran T/O** and volumes of water.

Basagran T/O does not control grasses. **Basagran T/O** is effective mainly through contact action; therefore, weeds must be thoroughly covered with spray. Large weed leaf canopies shelter smaller weeds and prevent adequate spray coverage. Some leaf-speckling and leaf-bronzing may occur under certain conditions. (See **Restrictions and Limitations** section.)

Basagran T/O may be applied as a directed spray around all ornamental plants except as restricted in this label.

Timing of Application

Make postemergence applications of **Basagran T/O** early, when weeds are small and actively growing and before weeds reach the maximum size listed in the **Application Rate Table**. Early application to weeds produces the most beneficial effect on weed control (exception: yellow nutsedge and Canada thistle), allows use of the lower rate (depending on weed species), and makes it easier to obtain thorough spray coverage. Delay in application which permits weeds to exceed the maximum size stated will result in inadequate control.

Do not cultivate or mow within five days before or after application of **Basagran T/O**.

Water Volume

Apply recommended rates of **Basagran T/O** with a minimum of 0.5 gallon of water per 1000 square feet.

Mixing

Fill the tank of a thoroughly clean sprayer half to two-thirds full with clean water. Add **Basagran T/O** and shake or stir the spray solution so that **Basagran T/O** and water mix thoroughly.

Mix only enough spray solution for one usage; a fresh spray mixture should be used each application.

contain only EPA-exempt ingredients, 3) provide good mixing quality, and 4) be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers which provide good mixing quality. For vegetable oil concentrates, it has been observed that highly refined vegetable oils are more satisfactory than unrefined vegetable oils.

With the addition of oil concentrate to **Basagran T/O**, a slight leaf burn may occur when relative humidity and temperature are high. Refer to your supplier of **Basagran T/O** for information concerning successful local experience prior to purchasing any oil concentrate.

Rate of Oil Concentrate

For 0.5-1.0 gallons per 1,000 square feet, use 0.75 fluid oz. (5 teaspoons).

For 1.0-2.0 gallons per 1,000 square feet, use 1.5 fluid oz. (10 teaspoons).

Mixing

Fill tank of a thoroughly clean sprayer half to two-thirds full with clean water. Add **Basagran T/O** and shake or stir the spray solution so that **Basagran T/O** and water mix thoroughly. Add the oil concentrate and the remaining volume of water. Again, shake or stir the spray solution so that the **Basagran T/O**, oil concentrate, and water mix thoroughly. Mix only enough spray solution for one usage; a fresh spray mixture should be used each application.

desirable plants show injury (leaf phytotoxicity and/or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced and/or prolonged.

Do not apply **Basagran T/O** during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory weed control may result. Rainfall or overhead irrigation soon after application (within 8 hours) may nullify the effectiveness of **Basagran T/O**.

Do not apply more than 3 fluid ounces per 1000 square feet in any 12 month period.

Clean sprayer thoroughly prior to application of **Basagran T/O**, particularly if a herbicide was used which has the potential to injure the ornamental plants to be sprayed with **Basagran T/O**.

Post-directed Applications

Basagran T/O should be applied when weeds are actively growing and before they reach the maximum size listed in the **Application Rate Table**, page 5.

Basagran T/O should be applied around landscape and ornamental trees, shrubs, flowers, and other plants as a directed spray and away from the foliage of desired plants, unless otherwise directed.

Injury may occur with post-directed application of **Basagran T/O** when used under the tree line or over the roots of sycamore and over the roots of rhododendron. Do not use if the risk of injury to these plants is not acceptable.

Basagran® T/O herbicide may be applied over-the-top of certain ornamental species listed in Table 2.

Notice to User

Due to variability within species and in application techniques neither the manufacturer nor the Seller has determined whether or not **Basagran T/O** can be safely used on all nonbearing food crops, ornamentals, nursery, and other nonfood crops under all conditions. It is, therefore, recommended that the user should determine if **Basagran T/O** can be used safely prior to broad use.

Common Name	Scientific Name
Ajuga	<i>Ajuga sp.</i>
Arborvitae*	<i>Thuja occidentalis</i>
Boxwood "Winter Gem"	<i>Buxus japonica</i>
Dusty Miller	<i>Centaurea cineraria</i>
Holly, Burford "Burfordii"	<i>Ilex cornuta</i>
Holly, "Compacta"	<i>Ilex crenata</i>
Holly, "Dwarf Burford"	<i>Ilex cornuta</i>
Impatiens* Accent Carmine**	<i>Impatiens sp.</i>
Impatiens "Balsam"	<i>Impatiens balsamina</i>
Ivy, English	<i>Hedera helix</i>
Liriope, Green	<i>Liriope muscari</i>
Liriope	<i>Liriope spicata</i>
Marigold, "Aurora Gold"	<i>Tagete erecta</i>
Mugo pine*	<i>Pinus mugo mugo</i>
Oak, red*	<i>Quercus rubra</i>
Ornamental cabbage pansy	<i>Brassica sp.</i>
Ornamental cabbage "colorup"	<i>Brassica oleracea</i>
Pachysandra	<i>Pachysandra terminalis</i>
Petunia "Madness Plum"	<i>Petunia hybrida</i>
Petunia "Ultra White"	<i>Petunia hybrida</i>
Snapdragon "L. Scarlet**"	<i>Antirrhinum majus</i>
Yew, Japanese "Densiformis"	<i>Taxus cuspidata</i>
Yew "Hatfieldii"	<i>Taxus media</i>
Yew "Hicks"	<i>Taxus media</i>

* Make no more than one application per season.

Special Directions for Other Weed Problems

Canada Thistle

Apply 0.75 fluid ounces per 1000 square feet of **Basagran T/O** when plants are from 8 inches tall to the bud stage. Make a second application at the same rate 7-10 days later.

Yellow Nutsedge

Two applications are preferred for best results. Apply 0.55-0.75 fluid ounces per 1000 square feet of **Basagran T/O** when plants are 6-8 inches tall. If needed, make a second application at the same rate 7-10 days later. Add oil concentrate to the spray solution of **Basagran T/O**/water for each application, according to the **Directions for Use**.

Musk Thistle

Apply 0.75 fluid ounces per 1000 square feet of **Basagran T/O** when plants are in the rosette stage no larger than 10 inches in diameter. Make subsequent applications at the same rate if needed. Add oil concentrate to the spray solution of **Basagran T/O**/water for each application, according to the **Directions for Use**.

Table 3: Application Rate Table for Ornamental Sites

Weeds Controlled	Application Rates for Weed Growth Stage			
	0.55 fluid ounces (3.5 teaspoons) per 1000 square feet		0.75 fluid ounces (5 teaspoons) per 1000 square feet	
	Leaf Stage	Maximum Height (inches)	Leaf Stage	Maximum Height (inches)
Balloonvine	2-4	2	4-6	3
Beggarticks	Up to 6	6	6-8	8
Bristly Starbur	Not Recommended	—	4-6	3
Cocklebur	2-6*	6	6-10	10
Coffee Senna	Not Recommended	—	Up to 1 pinnate	2
Common Groundsel	Not Recommended	—	2-10	6
Common Purslane	Up to 4	1	4-6	2
Common Ragweed	Not Recommended	—	4-6	3
Dayflower	Up to 6	4	6-10	8
Devilsclaw	Not Recommended	—	Up to 6	3
Galinsoga	Not Recommended	—	Cotyledon to 6	2
Giant Ragweed	Not Recommended	—	Up to 4	6
Jimsonweed	Up to 6	6	6-10	10
Ladysthumb	Up to 6	6	6-10	10
Pennsylvania Smartweed	Up to 6	6	6-10	10
Prickly Sida or Teaweed	Up to 6	3	6-8	4
Redweed	4-6	6	6-10	8
Sesbania	Not Recommended	—	3-5	3
Shepherdspurse*	Up to 6	4	6-10	8
Spurred Anoda	Up to 6	3	6-8	4
Spurweed/Lawn burweed	Not Recommended	—	2-6	3
Tropic Croton	Up to 2	2	2-4	4
Velvetleaf	Up to 4	2	4-6	5
Vernice Mallow	Up to 6	2	6-10	4
Wild Buckwheat	Up to 4	3	4-6	5
Wild Mustard	Up to 6	4	6-10	8
Wild Ponsettia	2-4	4	4-8	6
Wild Sunflower	Up to 4	5	4-6	8

For additional weeds see **Special Directions** section.

* Do not treat earlier than leaf stage shown and do not count cotyledon leaves.

* Do not treat rosette before seed stalk appears.

Broadleaf Weeds Discussed in this Label

Common Name	Scientific Name
Balloonvine	<i>Cardiospermum halicacabum</i>
Beggarticks	<i>Bidens frondosa</i>
Bristly Starbur	<i>Acanthospermum hispidum</i>
Chickweed, Common	<i>Stellaria media</i>
Chickweed, Mouse-ear	<i>Cerastium vulgatum</i>
Cocklebur	<i>Xanthium strumarium</i>
Coffee Senna	<i>Cassia occidentalis</i>
Dandelion	<i>Taraxacum officinale</i>
Dayflower	<i>Commelina</i> spp.
Devilsclaw	<i>Proboscidea louisianica</i>
Florida Pusley	<i>Richardia scabra</i>
Galinsoga	<i>Galinsoga</i> spp.
Groundsel, Common	<i>Senecio vulgaris</i>
Jimsonweed	<i>Datura stramonium</i>
Ladysthumb	<i>Polygonum persicaria</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Morningglory	<i>Ipomoea</i> spp.
Onion/Garlic	<i>Allium</i> spp.
Pennsylvania Smartweed	<i>Polygonum pensylvanicum</i>
Pigweed	<i>Amaranthus</i> spp.
Plantain	<i>Plantago</i> spp.
Prickly Sida/Teaweed	<i>Sida spinosa</i>
Purslane, Common	<i>Portulaca oleracea</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Ragweed, Giant	<i>Ambrosia trifida</i>
Redweed	<i>Melochia corchorifolia</i>
Sesbania	<i>Sesbania exaltata</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Spurge	<i>Euphorbia maculata</i>
Spurred Anoda	<i>Anoda caristata</i>
Spurweed/Lawn Burweed	<i>Saliva pterosperma</i>
Thistle, Canada	<i>Cirsium arvense</i>
Thistle, Musk	<i>Carduus nutans</i>
Tropic Croton	<i>Croton glandulosus</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Vernice Mallow	<i>Hibiscus trionum</i>
Wild Buckwheat	<i>Polygonum convolvulus</i>
Wild Mustard	<i>Sinapsis arvensis</i>
Wild Poinsettia	<i>Euphorbia heterophylla</i>
Wild Sunflower	<i>Helianthus annuus</i>
Wood Sorrel, Yellow	<i>Oxalis stricta</i>

Sedges Discussed in this Label

Common Name	Scientific Name
Annual Sedges	<i>Cyperus</i> spp. -
Purple Nutsedge	<i>Cyperus rotundas</i>
Yellow Nutsedge	<i>Cyperus esculentus</i>

The Directions For Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Turf injury, ineffectiveness or other unintended consequences may result, because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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BASF Corporation
P.O. Box 13528
Research Triangle Park, NC 27709

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