

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF WASHINGTON

# **BASAGRAN<sup>®</sup>**

## **herbicide**

## **Supplemental Labeling**

EPA Reg. No. 7969-45

EPA SLN No. WA-900012

### **FOR WEED CONTROL IN ALFALFA GROWN FOR SEED PRODUCTION**

**This label for Basagran<sup>®</sup> herbicide expires and must not be distributed or used in accordance with this SLN registration after December 31, 2010.**

**Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA-registered label.**

**This labeling must be in the possession of the user at the time of application.**

#### **DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Read the **Precautionary Statement, Environmental Hazards, Storage and Disposal** statements, and **Conditions of Sale and Warranty** statement appearing on the container label.

#### **GENERAL INFORMATION**

**Basagran<sup>®</sup> herbicide** is intended for selective post emergence control of certain broadleaf weeds.

**Basagran** does not control grasses. **Basagran** is effective mainly through contact action; therefore, weeds must be thoroughly covered with spray. Large crop-and-weed leaf canopies shelter smaller weeds and prevent adequate spray coverage. Seed alfalfa is tolerant to **Basagran**, however some leaf speckling, leaf bleaching, or whitening and temporary stunting may occur under certain conditions. Applications made at or after flower bud formation may reduce seed yields.

#### **Timing of Applications**

At application, alfalfa must have at least 2 trifoliolate leaves and have no flower bud formation. Make post-emergence applications of **Basagran** early, when weeds are small and actively growing and before

weeds reach the maximum size listed in **Table 1**. Early application to weeds produces the most beneficial effect on weed control 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.

#### **Ground Application Methods and Equipment (Broadcast)**

**Water Volume:** Use 10-20 gallons of spray solution per broadcast acre for optimal performance.

**Spray Pressure:** Use a minimum of 40 psi (measured at the boom, not at the pump or in the line).

**Note:** When using the lower volume (i.e., 10 gallons per acre) or when crop and weed foliage is dense, use a minimum of 60 psi for best results.

**Application Equipment:** Use standard high-pressure pesticide flat fan or hollow cone nozzles spaced up to 20 inches apart. **DO NOT** use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. **DO NOT** use selective application equipment such as recirculating sprayers or wiper applicators. Good coverage is essential for maximum control.

#### **Aerial Application Methods and Equipment**

**Water Volume:** Use a minimum of 5 gallons of water per acre.

**Spray Pressure:** Use up to 40 psi.

**Application Equipment:** Use only diaphragm-type nozzles that produce cone or fan spray patterns.

**Nozzles:** Nozzles must not be lower than 10 feet above crop. Nozzles must be oriented to discharge straight back with the air stream (opposite the direction of travel of the aircraft) or at some angle between straight back and straight down. Distance of the outer most nozzle on the boom should not exceed  $\frac{3}{4}$  the length of the wingspan or rotor.

### Special Directions for Aerial Application

To obtain uniform coverage and to avoid drift hazards, follow these guidelines:

- **DO NOT** apply **Basagran®** herbicide by aircraft when wind is blowing more than 10 mph.
- Use coarse sprays (larger droplets), as they are less likely to drift.
- **DO NOT** apply **Basagran** by air if sensitive non-target plant species (such as lentils, lupines, ornamentals, strawberries, sugar beets, or sunflowers) are within 200 feet downwind.

The applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in this supplemental label and the main EPA-registered label, as well as applicable state and local regulations and ordinances. The applicator should be familiar with and take into account the information covered in the publication titled "**A Summary of Aerial Application Studies**" by the Spray Drift Task Force.

### Irrigation

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth because weeds growing under drought conditions usually are not satisfactorily controlled.

### Spray Coverage

Weeds must be thoroughly covered with spray. Dense leaf canopies shelter smaller weeds and can prevent adequate spray coverage.

### Addition of Oil Concentrate

A nonphytotoxic oil concentrate (commonly referred to as oil concentrate) should always be added to the spray tank. 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 in the jar test, 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** on seed alfalfa, a slight leaf burn or temporary stunting may occur, but all new growth is normal. The potential for leaf burn is increased when relative humidity and temperature are high. A few oil concentrates have exhibited excessive leaf burn. Refer to your supplier of **Basagran** for information concerning successful local experience prior to purchasing any oil concentrate.

For additional information, see **Jar Test for Estimating Suitability of Oil Concentrates**.

### Rate of Oil Concentrate

**Ground application:** 2 pints per acre (maximum)

**Air application:** 1 pint per acre (maximum)

### Jar Test for Estimating Suitability of Oil Concentrates

1. **Water supply:** Use only water from intended source and at the source temperature.
2. **Amount of water in jar:** For 20 gallons per acre spray volume, use 3-1/3 cups (800 ml) of water. For 10 gallons per acre spray volume, use 1-2/3 cups (400 ml) of water. For 5 gallons per acre spray volume use 5/6 cup (200 ml) of water. For other spray volumes, adjust proportionately to above.
3. **Amount of herbicide and oil concentrate to add:** Add herbicide and oil concentrate at the rate of 1 teaspoon (5 ml) for each pint of recommended label rate.
4. **Add components** in following sequence, gently mixing between adding components:
  - a) **Basagran**
  - b) Oil Concentrate.
5. **Cap jar, invert** 10 cycles, let stand for 15 minutes. Evaluate.
6. **Evaluation:** An ideal tank mix combination will be uniform; thus, the suitability of the oil concentrate is questionable if any of the following are observed:
  - Free oil at the surface - film or globule.
  - Flocculation - fine particles which may be suspended in the liquid or found as a precipitated layer at the bottom of the jar.
  - Clabbering - thickening texture (coagulated) resembling yogurt or a curd-like texture as with cottage cheese.

### Mixing/Spraying

Fill tank of a thoroughly clean sprayer half to two-thirds full with clean water. Start agitation and add **Basagran**; allow to mix thoroughly. Add oil concentrate and the remaining volume of water. Maintain constant agitation during application.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **Basagran® herbicide** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF recommended tank mixes.

### Restrictions and Limitations

All alfalfa seed screenings shall be disposed of in such a way that they cannot be distributed or used for human food or animal feed. The seed conditioner shall keep records of screening disposal for three years from the date of disposal and shall furnish the records to the director immediately upon request. Conditioner disposal records shall consist of documentation of on-farm disposal, disposal at a controlled dumpsite, incinerator, composter or other equivalent disposal site and shall include the lot numbers, amount of material disposed of, the grower(s), and the date of disposal.

No portion of the alfalfa seed plant, including but not limited to green chop, hay, pellets, meal, whole seed, cracked seed, roots, bulbs, leaves and seed screenings may be used or distributed for food or feed purposes.

Alfalfa seed shall bear a tag or container label which forbids use of the seed for human consumption or animal feed.

Alfalfa seed may not be distributed for human consumption or animal feed.

Use of **Basagran** according to this labeling is deemed a non-food use.

**DO NOT** apply **Basagran** if alfalfa shows 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** during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory control may result.

Rainfall or overhead irrigation soon after application (within 4 hours) may nullify the effectiveness of **Basagran**.

For use under this SLN label, **DO NOT** apply this product through any type of irrigation system.

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

**DO NOT** apply when weather conditions favor drift from treated areas.

**DO NOT** apply more than a total of 4 pints of **Basagran** per acre in one season.

One pint of **Basagran** contains 0.5 pounds of bentazon active ingredient (a.i.). **DO NOT** apply more than a total of 2.0 pounds of bentazon a.i. (from all sources) per acre, per calendar year.

**Table 1. Application Rates for Specific Weed Growth Stages**

Weeds Controlled	Application Rates for Weed Growth Stage					
	1 pint per acre		1.5 pints per acre		2 pints per acre	
	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height	Leaf Stage	Maximum Height
Lambsquarters, Common <sup>1</sup>	Up to 4	1"	Up to 6	1.5"	Up to 6	2"
Mayweed/dogfennel	-	-	-	2"	-	3"
Mustard, Wild	Up to 4	2"	Up to 6	4"	6-10	8"
Nightshade, Hairy <sup>2</sup>	-	-	-	-	2-6	4"
Purslane, Common	-	-	Up to 4	1"	4-6	2"
Radish, Volunteer	-	-	2-6	4"	6-10	10"
Shepherdspurs <sup>3</sup>	-	-	Up to 6	4"	6-10	8"
Sugar beet, Volunteer	-	-	2-4	-	4-8	-
Sunflower, Wild	Up to 2	3"	Up to 4	5"	4-6	8"

<sup>1</sup> Control requires the addition of 1-2 pints per acre of oil concentrate (2 pints maximum per acre).  
<sup>2</sup> **Basagran** does not adequately control black nightshade or Eastern black nightshade.  
<sup>3</sup> **DO NOT** treat rosette before seed stalk appears.

#### Canada Thistle

Apply 2 pints of **Basagran** per acre when plants are from 8 inches tall to the bud stage. Make a second application at the same rate 7-10 days later.

## 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 when disposing of equipment wash waters or rinsate.

Bentazon, which is present in this product, is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**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 adverse modification of their habitat.

## Storage and Disposal

**DO NOT** contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** **DO NOT** store at less than 32° F and **DO NOT** allow product to freeze.

**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:

### WSDA Container Disposal Guidance:

**Plastic Containers:** Pesticide containers must be properly cleaned prior to disposal. The best time to clean empty pesticide containers is during mixing and loading, because residue can be difficult to remove after it dries. Triple rinse (or pressure rinse) the pesticide container, empty all pesticide rinse water into the spray tank, and apply to a labeled crop or site. Recycling cleaned containers is the best method of container disposal.

Information regarding the recycling of empty and cleaned plastic pesticide containers in Washington is available on the Internet from WSU at <http://pep.wsu.edu/waste/wd.html> or from WSDA at <http://agr.wa.gov/PestFert/Pesticides/WastePesticide.htm>.

Cleaned containers may also be disposed of in a sanitary landfill, if permitted by the county. Burning is not a legal method of container disposal in Washington.

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflects 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. Crop 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.

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