UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
CHEMICAL SAFETY
AND POLLUTION PREVENTION

Mr. Craig D. Kleppe
Product Registration Manager
BASF Corporation
26 Davis Drive, PO Box 13528
Research Triangle Park, NC 27709

FEB - 6 2014

Dear Mr. Kleppe:

Subject: BASAGRAN Herbicide
Review of Basic Confidential Statement of Formula (CSF)
and Product Label Amendment
EPA Reg. No. 7969-45
E-Mail Submission Dated: January 30, 2014

The amendment referred to above, submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended is acceptable.

The basic CSF (dated 01-30-14) is acceptable and has been added to your record as current and updated. The basic CSF (dated 01-30-14) must supersede all other basic CSFs on file.

The label amendment is acceptable and a stamped copy of the label is enclosed for your record. This label supersedes all previously accepted labels. You must submit one (1) copy of your final label before you release the product for shipment. Products released for shipment after (18) months from the date of this letter must bear the newly revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of this product constitutes acceptance of these conditions.

Sincerely,

Kathryn V. Montague
Product Manager (23)
Herbicide Branch
Registration Division (7505P)

BASF

The Chemical Company

Group 6 Herbicide

ACCEPTED

FEB 6 2014

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 7969-45

# Basagran®

## herbicide

**For postemergence use in alfalfa grown for seed production, beans, clover grown for seed, corn, nonbearing foods crops, peanuts, peas, peppermint, rice, sorghum, soybeans, and spearmint**

**Active Ingredient:**

| | |
|---|---|
| sodium salt of bentazon*: (3-(1-methylethyl)-1*H*-2,1,3-benzothiadiazin-4 (3*H*)-one 2,2-dioxide) | 44.0% |
| **Other Ingredients:** | 56.0% |
| **Total:** | 100.0% |

* Equivalent to 4 pounds of bentazon per gallon

**EPA Reg. No. 7969-45** **EPA Est. No.**

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

See inside for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

**Net Contents:**

BASF Corporation
26 Davis Drive, Research Triangle Park, NC 27709

| FIRST AID | |
|---|---|
| **If swallowed** | • Call a poison control center or doctor immediately for treatment advice.<br>• Have person sip a glass of water if able to swallow.<br>• **DO NOT** induce vomiting unless told to do so by a poison control center or doctor.<br>• **DO NOT** give anything by mouth to an unconscious person. |
| **If on skin or clothing** | • Take off contaminated clothing.<br>• Rinse skin immediately with plenty of water for 15 to 20 minutes.<br>• Call a poison control center or doctor for treatment advice. |
| **If in eyes** | • Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.<br>• Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes.<br>• Call a poison control center or doctor for treatment advice. |
| **HOTLINE NUMBER** | |
| Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357). | |

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

| USER SAFETY RECOMMENDATIONS |
|---|
| **Users should:**<br>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.<br>• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.<br>• 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 when disposing of equipment washwater 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.

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.

## 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.

Observe all precautions and limitations in this label and the labels of products used in combination with **Basagran® herbicide**. Use of **Basagran** not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **48 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

## STORAGE AND DISPOSAL

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

### Pesticide Storage

**DO NOT** allow product to freeze.

### Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

### Container Handling

**Nonrefillable Container. DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinse into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

*(continued)*

## STORAGE AND DISPOSAL *(continued)*

### Container Handling *(continued)*

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**Triple rinse as follows:** To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

## In Case of Emergency

In case of large-scale spillage of this product, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spill and call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- BASF Corporation 1-800-832-HELP (4357)

**Steps to be taken in case material is released or spilled:**

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

# Product Information

**Basagran® herbicide** is intended for selective postemergence control of certain broadleaf weeds and sedges in alfalfa grown for seed, beans, clover grown for seed, corn, nonbearing foods crops, peanuts, peas, peppermint, rice, sorghum, soybeans, and spearmint. **Basagran** does not control grasses.

## Mode of Action

**Basagran** is a benzothiadiazinone herbicide and a photosynthesis PS II inhibitor belonging to the herbicide mode-of-action **Group 6** (WSSA)/**Group $C_3$** (HRAC). **Basagran** is effective mainly through contact action; therefore, weeds must be thoroughly covered with spray.

## Crop Tolerance

All labeled crops are tolerant to **Basagran**. Leaf speckling or bronzing may occur, but plants generally outgrow this condition within 10 days. New growth is normal and crop vigor is not reduced.

# Application Instructions

Apply **Basagran** postemergence to small, actively growing weeds early in the season for the most effective control as broadcast, band, or spot spray applications. Delaying application permits weeds to exceed the specified maximum size and will prevent adequate control.

Apply the specified rates of **Basagran** to actively growing weeds before they reach the maximum sizes listed in **Table 1. Application Rates and Weeds Controlled in All Crops Except Rice**, in **Table 3. Application Rates and Weeds Controlled in Rice - Flooded Fields**, and in **Table 4. Application Rates and Weeds Controlled in Rice - Drained Fields**.

## 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

Thorough spray coverage is required for optimum control of emerged weeds. Dense leaf canopies shelter smaller weeds and can prevent adequate spray coverage. Early season application to small weeds makes thorough spray coverage easier to obtain.

## Cultivation

**DO NOT** cultivate within 5 days before applying or within 7 days after applying **Basagran**. Timely cultivation after 7 days may help provide season-long weed control.

## Application Methods and Equipment

Avoiding spray drift at the application site is the responsibility of the applicator. The spray system and weather-related factors determine the potential for spray drift. The applicator is responsible for considering these factors when making application decisions to avoid spray drift onto nontarget areas.

## Aerial Application

Use a minimum spray volume of 5 gallons of water per acre. To obtain uniform coverage and to avoid off-target drift movement, applicators must observe the following requirements:

- **Boom Length** - The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the fixed wingspan or 90% of rotor-blade diameter.
- **Nozzle Type** - Use low-drift nozzles such as straight stream (D-8 or larger). **DO NOT** use nozzles producing a mist droplet spray.
- **Nozzle Orientation** - Nozzles must always point backward parallel with the airstream and never be pointed downward more than 45 degrees.
- **Application Height** - Without compromising aircraft safety, apply at a height of 10 feet or less above the crop canopy or tallest plants.

### Special Directions for Aerial Application

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

- **DO NOT** apply **Basagran** 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 species (such as cotton, sugar beets, sunflowers, or okra) are within 200 feet downwind.

## Ground Application

Use a minimum spray volume of 10 gallons of water per acre to ensure adequate spray coverage. Use higher spray volume (up to 20 gallons of water per acre) to improve

spray coverage when crop and weed foliage is dense. Apply using spray nozzles that deliver **medium-to-coarse spray droplets** as defined by ASABE standard S-572.1 and as shown in the nozzle manufacturer's spray catalogs. **DO NOT** use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles or selective application equipment such as recirculating sprayers or wiper applicators. **DO NOT** use brass nozzles because of the corrosive effects of nitrogen additives.

## Cleaning Spray Equipment

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions, followed by triple rinsing the equipment before and after applying **Basagran® herbicide**.

| Table 1. Application Rates and Weeds Controlled in All Crops Except Rice* | | | | |
|---|---|---|---|---|
| **Weeds Controlled** (includes ALS-resistant, glyphosate-resistant, and triazine-resistant biotypes) | **Basagran® herbicide** (pints/A) | | | |
| | **1.5** | | **2.0** | |
| | **Weed Leaf Stage** | **Maximum Height** (inches) | **Weed Leaf Stage** | **Maximum Height** (inches) |
| Anoda, spurred | Up to 6 | 3 | 6 to 8 | 4 |
| Balloonvine | 2 to 4 | 2 | 4 to 6 | 3 |
| Beggarticks | Up to 6 | 6 | 6 to 8 | 8 |
| Bindweed, field[6] | See the **Special Directions for Problem Weeds** section. | | | |
| Bindweed, hedge[8] | See the **Special Directions for Problem Weeds** section. | | | |
| Buckwheat, wild | Up to 4 | 3 | 4 to 6 | 5 |
| Canada thistle[8] | See the **Special Directions for Problem Weeds** section. | | | |
| Cocklebur[1,8] | 2 to 6 | 6 | 6 to 10 | 10 |
| Croton, tropic | Up to 2 | 2 | 2 to 4 | 4 |
| Dayflower | Up to 6 | 4 | 6 to 10 | 8 |
| Devilsclaw[2] | — | — | Up to 6 | 3 |
| Eclipta | Up to 6 | 2 | Up to 6 | 2 |
| Galinsoga[2] | — | — | Cotyledon to 6 | 2 |
| Groundsel, common | — | — | — | 3 |
| Jimsonweed | Up to 6 | 6 | 6 to 10 | 10 |
| Ladysthumb | Up to 6 | 6 | 6 to 10 | 10 |
| Lambsquarters, common[2,3] | Up to 6 | 1.5 | Up to 6 | 2 |
| Marshelder | Up to 4 | 2 | Up to 8 | 4 |
| Mayweed/dogfennel | — | 2 | — | 3 |
| Morningglory, cypressvine[5] | 4 | 4 | 4 | 4 |
| Morningglory, smallflower[5] | 4 | 4 | 4 | 4 |
| Morningglory[5] | 4 | 4 | 6 | 6 |
| Mustard, wild | Up to 6 | 4 | 6 to 10 | 8 |
| Nightshade, hairy[7] | — | — | 2 to 6 | 4 |
| Nutsedge, yellow[8] | See the **Special Directions for Problem Weeds** section. | | | |
| Poinsettia, wild[2] | Up to 6 | 4 | 4 to 8 | 6 |
| Purslane, common | Up to 4 | 1 | 4 to 6 | 2 |
| Radish, volunteer | 2 to 6 | 4 | 6 to 10 | 10 |
| Ragweed, common[2] | — | — | 4 to 6 | 3 |
| Ragweed, giant[3] | — | — | Up to 4 | 6 |
| Redweed | 4 to 6 | 6 | 6 to 10 | 8 |
| Senna, coffee[2] | — | — | Up to 1 pinnate | 2 |
| Sesbania[2] | — | — | 3 to 5 | 3 |
| Shepherdspurse[4] | Up to 6 | 4 | 6 to 10 | 8 |
| Sida, prickly (Teaweed) | Up to 6 | 3 | 6 to 8 | 4 |

*(continued)*

| Table 1. Application Rates and Weeds Controlled in All Crops Except Rice* *(continued)* | | | | |
|---|---|---|---|---|
| **Weeds Controlled** (includes ALS-resistant, glyphosate-resistant, and triazine-resistant biotypes) | **Basagran® herbicide** (pints/A) | | | |
| | **1.5** | | **2.0** | |
| | **Weed Leaf Stage** | **Maximum Height** (inches) | **Weed Leaf Stage** | **Maximum Height** (inches) |
| Smartweed, Pennsylvania | Up to 6 | 6 | 6 to 10 | 10 |
| Starbur, bristly | Up to 4 | 2 | 4 to 6 | 3 |
| Sugar beet, volunteer | 2 to 4 | — | 4 to 8 | — |
| Sunflower, wild | Up to 4 | 5 | 4 to 6 | 8 |
| Velvetleaf[6,8] | Up to 4 | 2 | 4 to 6 | 5 |
| Venice mallow | Up to 6 | 2 | 6 to 10 | 4 |

*For **Basagran** use rates and weeds controlled in rice, refer to **Table 3. Application Rates and Weeds Controlled in Rice - Flooded Fields** and **Table 4. Application Rates and Weeds Controlled in Rice - Drained Fields** in the **Crop-specific Information** section.

[1] **DO NOT** treat earlier than leaf stage shown, and **DO NOT** count cotyledon leaves.

[2] Use crop oil concentrate (COC) or COC plus urea ammonium nitrate (UAN).

[3] For regrowth or new germination, a second application of **Basagran** may be necessary.

[4] **DO NOT** treat rosette before seed stalk appears.

[5] **Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia** - Make a second application 5 to 14 days later. For all other states, apply 2 to 3 pints of **Basagran** per acre to annual morningglory plants not larger than 4 true leaves. Control may be partial or inconsistent.

[6] Always use UAN or ammonium sulfate (AMS) as spray additive.

[7] **Basagran** does not control black nightshade or Eastern black nightshade.

[8] See the **Special Directions for Problem Weeds** section.

## Special Directions for Problem Weeds

**Field and Hedge Bindweed** - In the states of Kentucky, Illinois, Indiana, Michigan, and Ohio, apply 2 to 3 pints of **Basagran** per acre when weeds are up to a maximum of 10-inches tall for suppression only.

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

**Yellow Nutsedge** - Apply 1.5 to 2 pints of **Basagran** per acre when weeds are up to a maximum of 8-inches tall. If regrowth occurs, make a second application at the same rate 7 to 10 days later.

**Treatment for Late Rescue of Cocklebur** - Make a single application of 2 to 3 pints of **Basagran** per acre to weeds up to 24-inches tall. For improved activity, apply 1.5 pints of **Basagran** per acre initially, and repeat application 10 to 14 days later.

**Treatment for Late Rescue of Velvetleaf** - Make a single application of 3 pints of **Basagran** per acre plus spray additives (an oil concentrate and UAN, refer to **Additives** section for more details) to weeds up to 12-inches tall. For improved activity, apply 1.5 pints of **Basagran** per acre plus plus spray additives (an oil concentrate and UAN or AMS, refer to **Additives** section for more details), followed by a second application at the same rate in 4 to 7 days.

## Additives

To achieve consistent and optimum weed control, one of or a combination of the following additives listed in **Table 2. Additive Rates** must be added to the spray tank. Additives may cause some leaf burn, but new growth is normal and crop vigor is not reduced. The potential for leaf burn is increased when relative humidity and temperature are high. When an adjuvant (or a specific adjuvant product, such as a drift control agent) is to be used with this product, BASF recommends the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant. See **Table 2. Additive Rates**. Applicators must use the additive(s) that will provide the best performance suited for their geography, target weed and environmental conditions.

**Table 2. Additive Rates**

| **Additive/Adjuvant** | **Rate** (per volume of spray solution) |
|---|---|
| Crop oil concentrate (COC)[1] | 1 gal/100 gals (1% v/v) |
| Methylated seed oil concentrate (MSO)[1,2] (MSO adjuvant must contain at least 60% methylated seed oil. Poor performance may occur with adjuvants containing less than 60% methylated seed oil) | 1 gal/100 gals (1% v/v) |
| Nonionic surfactant (NIS) (use a NIS containing at least 80% active ingredient. Organosilicone surfactant may be used in place of NIS.) | 1 to 2 quarts/100 gals (0.25% to 0.50% v/v) |
| **Additive/Nitrogen Fertilizer** | **Rate** (per volume of spray solution) |
| Ammonium sulfate (AMS) (use only spray-grade dry AMS) | 8.5 to 17 lbs/100 gals (1% to 2% w/v) |
| Urea ammonium nitrate (UAN)[3] (recommended liquid fertilizers include 28% N, 32% N, or 10-34-0) | 1.25 to 2.5 gals/100 gals (1.25% to 2.5% v/v) |

[1] Petroleum-based or vegetable seed-based crop oil concentrate may be used. The oil concentrate must be nonphytotoxic, contain only EPA-exempt ingredients, provide good mixing quality in a jar test, and be successful in local experience. The exact composition of suitable products will vary; however, petroleum-oil or vegetable-oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils are more satisfactory than unrefined vegetable oils. To determine the suitability of oil concentrates with **Basagran® herbicide**, conduct a jar test (see **Tank Mixing Information** section).

[2] Methylated seed oil is recommended when weeds are under moisture or temperature stress.

[3] UAN may be added in place of other spray additives to improve control of cocklebur, devilsclaw, Pennsylvania smartweed, velvetleaf, Venice mallow, wild mustard, and wild sunflower. **Basagran** plus a nitrogen solution will not provide adequate control of common ragweed and common lambsquarters. If these weeds or other weeds requiring oil concentrate are present in addition to velvetleaf, then oil concentrate should also be used.

## Tank Mixing Information

Additives and/or other pesticides may be mixed in the spray tank with **Basagran** according to the specific tank mixing instructions in this label and respective product labels.

See **Crop-specific Information** for more details. Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **Basagran** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers not specified on this label.

**Jar Test to Estimate Oil Concentrate Suitability**
**Water Supply** - Use only water from the intended source at the source temperature.
**Water Spray Volume** - For a spray volume of 20 gallons per acre, use 3.3 cups (800 mL) of water. For other spray volumes, adjust proportionately.
**Herbicide and Oil Concentrate** - Add 2 teaspoons each of herbicide and oil concentrate for each 2 pints per acre of label rate.
**Add components** in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of labeled rate per acre.
Cap jar, invert 10 cycles between component additions, let stand for 15 minutes.
**Evaluate** - An ideal tank mix combination will be uniform. The suitability of the oil concentrate is questionable if any of the following are observed:

- **Free oil at the surface** - Film or globules
- **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 Order

1. **Water** - Fill tank 1/2 to 2/3 full with clean water and start agitation.
2. **Agitation** - Maintain agitation throughout mixing.
3. **Inductor** - If an inductor is used, rinse it thoroughly after each component has been added.
4. **Products in PVA bags** - Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
5. **Water-soluble additives** (including NIS, and nitrogen fertilizers such as AMS or UAN)
6. **Water-dispersible products** (such as dry flowables, wettable powders, suspension concentrates, or suspoemulsions)
7. **Water-soluble products** (such as **Basagran**)
8. **Emulsifiable concentrates** (such as COC or MSO oil concentrate)
9. **Remaining quantity of water**

Maintain constant agitation throughout application until spraying is complete.

## Application Restrictions and Limitations

- **Maximum seasonal use rate - DO NOT** apply more than a **total of 4 pints** of **Basagran® herbicide** per acre, per season in all crops.
- **DO NOT** apply more than a **total of 2.0 pounds of bentazon** ai (from all sources) per acre, per season.
- **DO NOT** apply to weeds under stress such as lack of moisture, herbicide injury, mechanical injury, or cold temperatures, or unsatisfactory control may result.
- **DO NOT** apply to crops subjected to stress conditions such as hail damage, flooding, drought, injury from other herbicides, or widely fluctuating temperatures, or crop injury may result.
- **DO NOT** apply to crops that show injury (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications because this injury may be enhanced or prolonged.
- **Rainfast period:** Rainfall or overhead irrigation within 4 hours after application may reduce the effectiveness of **Basagran**.
- **DO NOT** apply through any type of irrigation system.

## Crop-specific Information

This section provides use directions for **Basagran** in specific crops. Read product information, mixing, application, weeds controlled, and additive instructions in the preceding sections of the label. Always read and follow all label directions when using this product alone, or when in tank mix combinations. The most restrictive labeling applies when using tank mixes.

### Alfalfa Grown for Seed

**For use ONLY in Idaho, Montana, Nevada, Oregon, Washington, and Wyoming.**

Seed alfalfa is tolerant to postemergence applications of **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.

Apply **Basagran** in the spring as a broadcast postemergence application at rates up to 2 pints per acre to alfalfa with at least 2 trifoliate leaves, but with no flower bud formation. If needed for additional control of troublesome weeds, make a second application 5 to 14 days later at the same use rate.

The addition of oil concentrate (see **Additives** section for details) to **Basagran** on seed alfalfa may result in slight leaf burn or temporary stunting, 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 before purchasing any oil concentrate.

#### Crop-specific Restrictions and Limitations

- **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.
- For use only in fields of alfalfa grown for seed production.
- **DO NOT** use on alfalfa produced for livestock feed.
- **DO NOT** use **Basagran**-treated alfalfa seed for sprouting.

#### Special Crop Use Restrictions

The pesticide applicator, the producer of the crop, and the seed conditioner must be aware that use of this product according to this labeling is deemed a nonfeed/nonfood use. If the applicator of this pesticide is not the producer, the applicator should provide a copy of this labeling to the producer of the crop. Producers of this crop who use this product, or cause the product to be used on a field they operate, should provide a copy of this pesticide label to the seed conditioner.

This pesticide does not have an established pesticide residue tolerance for alfalfa. Consequently, no portion of this alfalfa seed crop, including but not limited to, forage or stubble, green chop, hay, pellets, meal, whole seed, cracked seed straw, or seed screenings, may be used or distributed for human food or animal feed purposes.

Any alfalfa seed from a field treated with this product must bear a specific tag or conspicuous container labeling, or if shipped in bulk, on the shipment invoice or bill of lading, with the following statement: "Not for human or animal consumption". All seed screenings from seed processing shall be disposed of in such a manner that the screenings cannot be distributed or used for human food or animal feed purposes.

### Beans, Dry and Succulent

Bean types tolerant to **Basagran** are adzuki, navy, pinto, pink, great northern, kidney, red, white, cranberry, black turtle soup, small lima, large lima, and snap beans.

Apply **Basagran** to beans after the first trifoliate leaf has fully expanded. Even at the tolerant stages, yellowing, bronzing, speckling or burning of leaves may occur under certain conditions. This temporary injury is generally outgrown without delaying podset or maturity or reducing yield. Applying **Basagran** with an oil concentrate (COC or MSO) may increase crop injury (i.e., increase leaf burn) and may reduce yields, especially for snap beans.

**State-specific Instructions for Georgia and South Carolina. DO NOT** apply **Basagran** as a solo treatment to dry and succulent beans or severe crop injury may occur. **Basagran** may be applied from 6 to 16 fluid ounces per acre to dry and succulent beans only when tank mixed with **Raptor® herbicide** or **Pursuit® herbicide**. Refer to the **Raptor** and **Pursuit** labels for additional use directions or restrictions.

### Crop-specific Restrictions and Limitations

- **DO NOT** apply **Basagran® herbicide** to beans before the first trifoliate leaf is fully expanded because severe crop injury may occur.
- **DO NOT** apply **Basagran** to garbanzo beans or lupines at any stage of growth, or severe crop injury may occur.
- **DO NOT** apply **Basagran** to dry or succulent beans within 30 days of harvest.

### Tank Mixtures

**Basagran** may only be applied to dry beans in a tank mix or sequentially with one of the following herbicides:

- **Outlook® herbicide**
- **Poast® herbicide**
- **Pursuit® herbicide**
- **Raptor® herbicide**
- **Reflex® herbicide**
- clethodim

**Basagran** may only be applied to succulent beans in a tank mix with one of the following herbicides:

- **Poast**
- **Pursuit**
- **Raptor***
- **Reflex** (snap beans only)
- clethodim

*Only in certain states that **Raptor** is labeled for use on succulent lima beans and snap beans (see **Raptor** label)

## Clover Grown for Seed

**For use ONLY in Oregon and Washington.**

Clover is tolerant to postemergence applications of **Basagran**; however, some leaf burning may occur under certain conditions. Clover plants generally outgrow this condition within 10 days. Apply **Basagran** with the appropriate additive and rate (see **Additives** section and **Table 2**).

Apply **Basagran** in the spring as a broadcast postemergence application at rates up to 2 pints per acre. If needed for additional control of troublesome weeds, make a second application 5 to 14 days later at the same use rate.

### Crop-specific Restrictions and Limitations

- **DO NOT** graze livestock or harvest forage or hay for livestock feed for at least 36 days after treatment in Oregon and Washington.

### Tank Mixtures

**Basagran** may be applied in a tank mix with **Raptor**.

## Corn

Apply **Basagran** postemergence to corn (corn in this label refers to field, sweet, popcorn, and corn grown for seed or silage). Before applying **Basagran** to seed corn, verify the selectivity of **Basagran** on your inbred line with your local seed company (supplier) to help avoid potential injury to sensitive inbreds.

### Crop-specific Restrictions and Limitations

- **DO NOT** graze treated corn fields for at least 12 days after the last treatment with **Basagran**.

### Tank Mixtures

**Basagran** may be tank mixed with one or more of, but not limited to, the following herbicide products:

- **Outlook**
- **Status® herbicide**
- atrazine
- glyphosate (e.g. **Roundup® herbicide**)

## Peppermint and Spearmint

Peppermint and spearmint are tolerant to **Basagran**; however, some leaf burning may occur under certain conditions, such as when plants are growing very actively and have extensive new, succulent tissue. Mint plants generally outgrow this condition within 10 days.

### Crop-specific Restrictions and Limitations

- **DO NOT** apply **Basagran** to peppermint or spearmint within 20 days of harvest.

### Tank Mixtures

**Basagran** may be applied in a tank mix with one of the following herbicides:

- **Poast**
- **Buctril® herbicide**
- **Sinbar® herbicide**
- **Stinger® herbicide**

## Peas, Dry and Succulent

Pea types tolerant to **Basagran** are garden, English, and southern peas.

Apply **Basagran** to peas after three pairs of leaves (or 4 nodes) are present. Even at the tolerant stages, yellowing, bronzing, speckling, or burning of leaves may occur under certain conditions. This temporary injury is generally outgrown without delaying podset or maturity or reducing yield.

In western irrigated areas, avoid applying **Basagran** during prolonged periods (for 2 to 5 days) of cold weather (day temperature below 75° F and night temperature below 55° F) because weed control may be nullified.

**State-specific Instructions for Georgia and South Carolina. DO NOT** apply **Basagran** as a solo treatment to dry and succulent peas or severe crop damage may occur. **Basagran** may be applied from 6 to 16 fluid ounces per acre to dry and succulent peas only when tank mixed with **Raptor** or **Pursuit**. Refer to the **Raptor** and **Pursuit** labels for additional use directions or restrictions.

## Crop-specific Restrictions and Limitations

- **DO NOT** apply **Basagran® herbicide** to dry peas within 30 days or to succulent peas within 10 days of harvest.
- **DO NOT** apply **Basagran** to peas under stress from root rot.
- **DO NOT** apply **Basagran** to garbanzo beans or to lupines at any stage of growth, or severe crop injury may occur.
- **DO NOT** apply **Basagran** when peas are in bloom.
- **DO NOT** add oil concentrate to **Basagran** for use on peas, except for use in the Pacific Northwest (PNW).
- Infurrow treatments of insecticides or nematicides may predispose the peas to injury from **Basagran**.

## Tank Mixtures

**Basagran** may be applied in a tank mix with one of the following herbicides:

- **Pursuit® herbicide**
- **Raptor® herbicide**
- **Reflex® herbicide**
- **Thistrol® herbicide**
- MCPA

The **Basagran** + **Thistrol** tank mix is for use in the northeastern states of Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and in the mid-Atlantic states of Delaware, Maryland, Virginia, and in the Pacific northwestern states of Idaho, Oregon, and Washington. Apply this tank mix after the 3-leaf stage (4-node stage) of peas, but not later than 3 nodes before pea flowering.

**NOTICE TO USER:** Because of variability among pea cultivars and in application techniques, neither the manufacturers nor the sellers have determined whether or not the tank mix of **Basagran** + **Thistrol** can be safely used on all pea crops under all conditions. Therefore, determine if the tank mix of **Basagran** + **Thistrol** can be used safely before broad use.

For improved control of pigweed species and common lambsquarters, apply a tank mix of **Basagran** + MCPA.

## Tank Mix Restrictions and Limitations

- **DO NOT** use oil concentrate, other oil-based additives, or any other spray additives or surfactants with these tank mixes.
- **DO NOT** apply the tank mix to peas when temperatures exceed 90° F.
- **DO NOT** apply the tank mix to peas after pea flower buds appear.
- Other crops, in particular beans, cotton, grapes, tomatoes, and ornamental plants, may be severely injured by off-target spray drift of **Thistrol**.

# Peanuts

Apply **Basagran** from peanut cracking through pegging.

## Crop-specific Restrictions and Limitations

- **DO NOT** graze treated peanut fields for at least 50 days after the last **Basagran** treatment.
- **Basagran** treated peanut hay and forage may be fed to livestock.
- Infurrow treatments of insecticides and nematicides may predispose peanuts to injury from **Basagran**.

## Tank Mixtures

**Basagran** may be applied in a tank mix with one of the following herbicides:

- **Cadre® herbicide**
- **Outlook® herbicide**
- **Poast® herbicide**
- **Pursuit**
- **Cobra® herbicide**
- **ET® herbicide/defoliant**
- **Gramoxone® Inteon herbicide**
- **Ultra Blazer® herbicide**
- 2,4-DB amine

Apply the **Basagran** + **Gramoxone Inteon** tank mix at the ground crack stage of peanuts to control an early flush of weeds. Apply a second application up to 28 days after ground crack stage. Always add NIS at the recommended rates to the **Basagran** + **Gramoxone Inteon** tank mix. **DO NOT** use an oil concentrate or any other oil-based additive with the **Basagran** + **Gramoxone Inteon** tank mix.

**Basagran** may be tank mixed with foliar fungicides such as **Headline® SC fungicide** and **Priaxor® fungicide**.

## Tank Mix Restrictions and Limitations

- **DO NOT** include UAN solution or AMS with **Basagran** + **Ultra Blazer** + **Poast** tank mix.
- **DO NOT** add oil concentrate, UAN, or any other additives to **Basagran** + 2,4-DB tank mix.
- Use only amine formulations of 2,4-DB.

# Rice

Apply **Basagran** early postemergence in rice, at the use rates specified in and before weeds exceed the maximum size listed in **Table 3** and **Table 4**.

## Alternate Flooding Culture

In Texas, Louisiana, Arkansas, and Mississippi, weed growth stages generally correspond to rice that is tillering (stooling) and occur before the permanent flood. **Basagran** must be applied when there is no water on the field and 24 hours or more before flooding. If **Basagran** cannot be applied until after flooding, see directions under **Continuous Flooding Culture**.

## Continuous Flooding Culture

In states using continuous flooding culture, or when treating after the permanent flooding, treatment must be made only when weeds are above the surface of the water. Weeds submerged at the time of application will not be adequately controlled. For early treatment, water may be partly or completely drained to expose more weed growth to spray applications of **Basagran® herbicide**. **DO NOT** raise water level for at least 24 hours after application or unsatisfactory control may result. **DO NOT** use ground equipment to apply to flooded fields because splashing will wash **Basagran** off weed leaf surfaces and ineffective control may result.

## Crop-specific Restrictions and Limitations

- Rice straw may be fed to livestock.
- **DO NOT** use **Basagran** on rice fields in which the commercial cultivation of catfish or crayfish is practiced.
- **DO NOT** use water containing **Basagran** residues from rice cultivation to irrigate crops used for food or feed unless **Basagran** is registered for use on these crops.
- **DO NOT** apply more than 4 pints of **Basagran** per acre per season whether one or two rice crops (including ratoon) are grown that season.

## Tank Mixtures

**Basagran** may be applied in a tank mix with one of, but not limited to, the following herbicides:

- **Beyond® herbicide**
- **Facet® L Herbicide**
- **Newpath® herbicide**
- **Command® herbicide**
- **Grasp® herbicide**
- **League™ herbicide**
- **Londax® herbicide**
- **Permit® herbicide**
- **Permit Plus® herbicide**
- **RiceBeaux® herbicide**
- **Strada® herbicide**
- **Ultra Blazer® herbicide**
- propanil

## Tank Mix Restrictions and Limitations

- Apply the **Basagran** + **Londax** tank mix within 7 days of establishing permanent flood.
- Apply the **Basagran** + propanil tank mix only to drained fields.
- **DO NOT** use oil concentrate with the **Basagran** + propanil tank mix. Add propanil to the tank mix of **Basagran** based on active ingredient (ai) of formulation used. Test propanil products for physical tank mix compatibility with **Basagran**.

| Table 3. Application Rates and Weeds Controlled in Rice - Flooded Fields | | | | |
|---|---|---|---|---|
| **Weeds Controlled** | **Basagran® herbicide Application Rates for Weed Growth Stages[1]** (pints/A) | | | |
| | **1.5** | | **2.0** | |
| | **Maximum Height Above Soil** (inches) | **Height Range Above Water Level** (inches) | **Maximum Height Above Soil** (inches) | **Height Range Above Water Level** (inches) |
| Cocklebur | 10 | 3 to 6 | 15 | 6 to 10 |
| Dayflower | 6 | 3 to 5 | 10 | 5 to 8 |
| Redstem | 4 | 2 to 3 | 8 | 4 to 6 |
| Smartweed | 6 | 2 to 5 | 10 | 5 to 8 |
| Water plantain, arrowhead | — | — | 7 | 5 to 6 |
| Water plantain, common | — | — | 7 | 5 to 6 |
| Yellow nutsedge | 6 | 4 to 5 | 10 | 6 to 8 |
| [1] If a second weed flush develops after the first application, re-treat according to this rate table. | | | | |

| Table 4. Application Rates and Weeds Controlled in Rice - Drained Fields | | | | |
|---|---|---|---|---|
| **Weeds Controlled** | **Basagran Application Rates for Weed Growth Stages[1]** (pints/A) | | | |
| | **1.5** | | **2.0** | |
| | **Weed Leaf Stage** | **Maximum Height** (inches) | **Weed Leaf Stage** | **Maximum Height** (inches) |
| Cocklebur | 2 to 10 | 10 | 10 to 15 | 15 |
| Dayflower | 2 to 10 | 6 | 10 to 15 | 10 |
| Ducksalad | — | — | 6 to 10 | 6 |
| Eclipta | 4 to 6 | 2 | 4 to 6 | 2 |
| Gooseweed | 4 to 6 | 4 | 6 to 10 | 8 |
| Redstem | Up to 6 | 4 | 6 to 10 | 8 |
| Redweed | 4 to 6 | 6 | 6 to 10 | 8 |
| Smartweed | 2 to 10 | 6 | 10 to 15 | 10 |
| Spikerush | 2 to 6 | 6 | 6 to 8 | 8 |
| Water plantain, arrowhead | — | — | Up to 4 | 7 |
| Water plantain, common | — | — | Up to 4 | 7 |
| Yellow nutsedge | 4 to 6 | 6 | 6 to 8 | 10 |
| [1] If a second weed flush develops after the first application, re-treat according to this rate table. | | | | |

## Sorghum, Grain and Forage

Apply **Basagran® herbicide** postemergence to sorghum (sorghum in this label refers to grain and forage sorghum). Before applying **Basagran** to sorghum, verify the selectivity of **Basagran** on your inbred or hybrid line with your local seed company (supplier) to help avoid potential injury to sensitive inbreds and hybrids.

### Crop-specific Restrictions and Limitations

- **DO NOT** apply more than 2 pints of **Basagran** per acre per season in sorghum.
- **DO NOT** apply to sorghum that is heading or blooming.
- **DO NOT** graze treated sorghum fields for at least 12 days after the last treatment with **Basagran**.

### Tank Mixtures

**Basagran** may be tank mixed with one or more of, but not limited to, the following herbicide products:

- **Clarity® herbicide**
- **Facet® L herbicide**
- **Outlook® herbicide**
- atrazine

## Soybeans

Apply **Basagran** postemergence to soybean, as they are tolerant to **Basagran** at all stages of growth. Slight leaf speckling and leaf bronzing may occur under certain conditions, but soybeans generally outgrow these conditions within 10 days.

### Crop-specific Restrictions and Limitations

**DO NOT** graze or cut treated soybean fields for forage or hay for at least 30 days after the last treatment of **Basagran**.

### Tank Mixtures

**Basagran** may be tank mixed or applied sequentially with one or more of, but not limited to, the following herbicide products:

- **Outlook**
- **Poast® herbicide**
- **Pursuit® herbicide**
- **Raptor® herbicide**
- **Scepter® herbicide**
- **Cobra® herbicide**
- **Flexstar® herbicide**
- **Reflex® herbicide**
- **Resource® herbicide**
- **Ultra Blazer® herbicide**
- 2,4-DB amine
- glyphosate (e.g. **Roundup® herbicide**)

**Basagran** may be tank mixed with foliar fungicides and/or foliar insecticides (except malathion and **Sevin® herbicide**) if the application timings properly coincide.

### Tank Mix Restrictions and Limitations

**Basagran + Ultra Blazer + Poast.** Oil concentrate must be used with the **Basagran** + **Ultra Blazer** + **Poast** tank mix in place of a spray surfactant.

**Basagran + 2,4-DB amine.** Use only amine formulations of 2,4-DB. Use no other adjuvant except UAN at 2 to 4 pints per acre with this tank mix. **DO NOT** apply more than 1 application of this tank mix per season. The use of this tank mix will cause soybean foliage injury (such as burning, bronzing, or crinkling) and may reduce yields. **DO NOT** use this tank mix on soybeans that show symptoms of disease such as *Phytophthora* root rot.

The tank mixing of an insecticide with **Basagran** may increase the potential for crop injury.

## Nonbearing Food Crops

**Basagran** may be used for selective postemergence weed control in the following nonbearing food crops: almonds, apples, apricots, avocados, blackberries*, blueberries, cherries, crabapples, dates, figs, grapes, grapefruit, lemons, limes, macadamias, nectarines, olives, oranges, peaches, pears, pecans, pistachios, plums, pomegranates, prunes, raspberries*, tangelos, tangerines, walnuts.

(* Apply **Basagran** at or before planting only)

Apply **Basagran** at 1.5 to 2 pints per acre as a postemergence directed spray away from the foliage of desired plants. **DO NOT** allow spray to contact green stems, bark, or foliage. A directed spray application should reduce the potential for leaf injury. However, some leaf speckling and leaf bronzing may occur under certain conditions. If needed, use a spray shield or wrap or cover the plants when spraying around very young trees or vines.

### Crop-specific Restrictions and Limitations

- **DO NOT** apply to nonbearing foods using aircraft or any aerial equipment that results in a broadcast spray application.
- **DO NOT** graze animals in treated orchards or fields.
- **DO NOT** use hay from treated areas for animal feed or bedding.
- **DO NOT** apply **Basagran** to nonbearing food crops within one year of harvest.

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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 must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the 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. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

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