

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 401 "M" St., S.W. Washington, D.C. 2046C

NOTICE OF PESTICIDE:

x Registration
Reregistration

(under FIFRA, as amended:

EPA Reg. Number:

Date of Issuance:

APR 2 8 2003

51036-421

36- | 111 2 8 200

Term of Issuance:
Conditional

Name of Pesticide Product:

BASAGRAN AG

Name and Address of Registrant (include ZIP Code):

Micro Flo Company LLC P.O. Box 772099 Memphis, TN 38117

**Mote:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit/cite all data required for registration/ reregistration of your product when the Agency requires all registrants of similar products to submit such data.
- 2. Make the following label changes before you release the product for shipment:
  - a. Revise the EPA Registration Number to read "EPA Reg. No. 51036-421.

Signature of Approving Official:	Date:

EPA Form 85 0-6

4-38:

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3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller Product Manager 23 Herbicide Branch Registration Division (7505C)

Enclosure

ACCEPTED

APR 2 8 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act. as amended, for the pesticide registered under EPA Reg. No. 5/036-42/

# BASAGRAN AG

Herbicide for postemergence use in beans, clover grown for seed, corn, flax, peanuts, peas, peppermint, rice, sorghum, soybeans and spearmint

\* Equivalent to 4 pounds of bentazon per gallon

KEEP OUT OF REACH OF CHILDREN.

#### CAUTION

See inside booklet for complete Precautionary Statements, Directions For Use, Statement of Practical Treatment, and Conditions of Sale and Warranty.

# FIRST AID

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

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15--20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

EPA Reg. No. 51036-appl.

EPA Est. No. XXXX-XX-XXX

Net contents: 2.5 gallons

Manufactured For: MICRO FLO COMPANY P.O. BOX 772099 MEMPHIS, TN 38117

# 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.

## IN CASE OF EMERGENCY

In case of large-scale spillage regarding this product, call: CHEMTREC 800-424-9300

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Poison Control Center 800-900-4044.
- ASPCA, Animal health 800-345-4735.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants
- 2. Waterproof gloves
- 3. Shoes plus socks

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, 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:

- 1. 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.
- 3. 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 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 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 tube, consult the agency responsible for pesticide regulation.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions and Conditions of Sale and Warranty are to be followed.

# 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:

- 1. Coveralls
- 2. Waterproof gloves
- 3. Shoes plus socks

#### 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:

Plastic Containers: Triple rinse the container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke. Do not re-use empty container. Bulk/Mini-bulk Containers: Reusable containers should be returned to the point of purchase for cleaning and refilling because the container must be thoroughly cleaned before refilling.

Steps to be taken in case material is released or spilled: Wear the personal protective equipment specified on the label. Recover the material for re-use according to label whenever possible. Cover the liquid with an absorbent material (such as pet litter). Sweep up and place in an appropriate container for disposal. Remove and wash clothing and personal protective equipment prior to re-use. Keep the spill out of all sewers and open bodies of water.

#### I. GENERAL INFORMATION

BASAGRAN AG herbicide is intended for selective postemergence control of certain broadleaf weeds and sedges in beans, clover grown for seed, corn, flax, peanuts, peas, peppermint, perennial peanuts, rice, sorghum, soybeans, spearmint and non-bearing food crops. BASAGRAN AG does not control grasses.

# MODE OF ACTION

BASAGRAN AG is effective mainly through contact action; therefore, weeds must be thoroughly covered with spray.

# CROP TOLERANCE

All labeled crops are tolerant to BASAGRAN AG. 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.

# CLEANING SPRAY EQUIPMENT

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and then triple rinsing the equipment before and after applying this product.

# II. APPLICATION INSTRUCTIONS

Applications can be made to actively growing weeds as broadcast, band, or spot spray applications at the rates and growth stages listed in the weed tables. The most effective control will result from making postemergence applications of BASAGRAN AG early, when weeds are small. Early application produces the most beneficial effect on weed control (exceptions: yellow nutsedge and Canada thistle), allows use of the lower rate (depending on weed species), and makes thorough spray coverage easier to obtain. Delaying application permits weeds to exceed the maximum size stated and will prevent adequate control.

Do not apply when conditions favor drift from target area or when windspeed is greater than 10 mph. Apply recommended rates of BASAGRAN AG to actively growing weeds before they reach the maximum sizes listed in Table 1. Application Rates for Specific Weed Growth Stages For All Crops Except Rice. For the recommended use rates of BASAGRAN AG in rice, refer to Table 3. Application Rates for Rice -Flooded Fields and Table 4. Application Rates for Rice - Drained Fields, in Section VI. Crop-Specific Information.

#### 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.

## CULTIVATION

Do not cultivate within 5 days before applying BASAGRAN AG or 7 days after application. Timely cultivation after 7 days may help provide season-long control.

Aerial Application Methods and Equipment

Water Volume: Use a minimum of 5 gallons of water per acre (except 10 gallons for rice).

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 more 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.

Special Directions for Aerial Application

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

- Do not apply BASAGRAN AG by aircraft when wind is blowing more than 10 mph (except above 5 mph in California).
- Use coarse sprays (larger droplets), as they are less likely to drift.
- Do not apply BASAGRAN AG by air if sensitive species (such as cotton, sugar beets, sunflowers, or okra) are within 200 feet downwind.

The applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

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.

BASAGRAN AG can be used in the following crops:

Beans, Dry
Beans, Succulent
Clover Grown For Seed
Corn
Flax
Peanuts
Peas, Dry

Peas, Succulent Peppermint Rice Sorghum Soybeans Spearmint

Table 1. Application Rates for Specific Weed Growth Stages for All Crops Except Rice\*

		BASAGI	RAN AG Her	bicide Rat	es Per Acre*	
Weeds Controlled (includes ALS- and	1 pint	per acre	1.5 pir ac	nts per re	2 pints	per acre
triazine resistant	Leaf	Maximum	Leaf	Maximum	Leaf Stage	Maximum
biotypes)	Stage	Height	Stage	Height		Height
Anoda, Spurred			Up to 6	3"	6-8	4"
Balloonvine			2-4	2"	4-6	3"
Beqqarticks			Up to 6	6"	6-8	8"
Bindweed (Field,	_	-	_	_	_	10"
Hedge) 6						
Buckwheat, Wild	-	-	Up to 4	3"	4-6	5"
Canada Thistle	-	-	-	_	-	8" to bu
						stage
Cocklebur <sup>2,9</sup>	2-4	4"	2-6	6"	6-10	10"
Croton, Tropic	-	-	Up to 2	2"	2-4	4"
Dayflower	-	-	Up to 6	4"	6-10	8"
Devilsclaw <sup>3</sup>	-	-	-	-	Up to 6	3"
Eclipta	_	-	Up to 6	2"	Up to 6	2"
Galinsoqa <sup>3</sup>	-	-	_	-	Cotyledon	2"
					to 6	
Groundsel, Common	-	-	-	-	-	3"
Jimsonweed	Up to	4"	Up to 6	6"	6-10	10"
	4					
Ladysthumb	Up to	4"	Up to 6	6"	6-10	10"
	4					
Lambsquarters,	Up to	1"	Up to 6	1.5"	Up to 6	2"
Common <sup>3,4</sup>	4					
Marshelder	-	_	Up to 4	2"	Up to 8	4"
Mayweed/dogfennel	-	_	-	2"	-	3"
Morningglory <sup>10</sup>	-	-	4	4"	4	4"
(smallflower,						
cypressvine only)						
Morningglory <sup>10</sup>	-	_	4	4"	6	6"
Musk Thistle	-	_	-	-	-	Rosette
			)			stage
Mustard, Wild	Up to	2"	Up to 6	4"	6-10	8"
22	4					
Nightshade, hairy <sup>12</sup>	_	_	-	-	2-6	4"
Nutsedge, Yellow	_	-		8"	-	8"
Poinsettia, Wild <sup>3</sup>	~	_	Up to 6	4"	4-8	6"
Purslane, Common	_	_	Up to 4	1"	4-6 6-10	2"
Radish, Volunteer	_	-	2-6	4"		10"
Ragweed, Common <sup>3</sup>	_	_	_	-	4-6	3"
, Giant <sup>4</sup> Redweed	-	_	-   4	- 6"	Up to 4   6-10	6" 8"
	_	_	4-6	9	i	2"
Senna, Coffee <sup>3</sup>	_		_	_	Up to	4"
Sochania				_	pinnate 3-5	3"
Sesbania3	-	-	-	-	1 3 - 5	ر ا

		BASAGI	RAN AG Her	bicide Rat	es Per Acre*	<u> </u>
Weeds Controlled	1 pint	per acre	1.5 pir	nts per	2 pints	per acre
(includes ALS- and			ac	re		
triazine resistant	Leaf	Maximum	Leaf	Maximum	Leaf Stage	Maximum
biotypes)	Stage	Height	Stage	Height		Height
Shepherdspurse <sup>5</sup>	-	-	Up to 6	4"	6-10	8"
Sida, Prickly or	-	-	Up to 6	3"	6-8	4"
Teaweed						
Smartweed,	Up to	4"	Up to 6	6"	6-10	10"
Pennsylvania	4					
Starbur, Bristly	-	_	Up to 4	2"	4-6	3"
Sugar Beet,	-	-	2-4	-	4-8	-
Volunteer		ļ				
Sunflower, Wild	Up to	3"	Up to 4	5″	4-6	8"
	2					
Velvetleaf <sup>8, 11</sup>	Up to	2"	Up to 4	2"	4-6	5 <i>"</i>
	4					
Venice Mallow	Up to	2"	Up to 6	2"	6-10	4"
	4					

If regrowth develops, make a second application of 1 pint 7-14 days later. (This rate not applicable in California.)

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

3 Use crop oil concentrate or crop oil concentrate plus UAN.

4 For regrowth or new germination, a follow-up application of BASAGRAN AG may be necessary.

 Do not treat rosette before seed stalk appears.
 In KY, IL, IN, MI, and OH, apply 2-3 pints of BASAGRAN AG per acre (for suppression only).

If regrowth occurs, make a second application at the same rate 7-10 days later.

8 Late Rescue Treatment for Velvetleaf: Make a single application of 3 pints per acre of BASAGRAN AG plus 1 quart of oil concentrate per acre and 1 gallon of UAN solution per acre to velvetleaf plants up to 12". For better control, apply 1.5 pints per acre of BASAGRAN AG plus 1 quart of oil concentrate and 1 gallon of UAN or AMS solution per acre, followed by a second application at the same rate in 4-7 days.

Late Rescue Treatment for Cocklebur: Make a single application of 2-3 pints per acre of BASAGRAN AG to plants up to 24". For better control, apply 1.5 pints per

acre of BASAGRAN AG. Repeat 10-14 days later.

 $^{10}$ Rates given for Southern States only (AL, AR, FL, CA, LA, MS, NC, OK SC, TN, TX, and VA). Make a second application 5-14 days later. For all states other than the South, apply 2-3 pints of BASAGRAN AG per acre to annual morningglories not larger than 4 true leaves. Control may be partial or inconsistent.

11 Always use UAN or AMS as spray additive.

12 BASAGRAN AG does not control black nightshade nor Eastern black nightshade.

- \* For the recommended use rates of BASAGRAN AG in rice, refer to Table 3. Application Rates for Rice 🕏 Flooded Fields and Table 4. Application Rates for Rice - Drained Fields, in Section VI. Specific Information.
- \*\* Refer to section VI, Crop-Specific Information for Crop-Specific Restrictions and Limitations.

## III. ADDITIVES

weed control, one of the following To achieve consistent additives are needed: crop oil concentrate, urea ammonium nitrate, or ammonium sulfate. 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. See Table 2. Additive Rate Per Acre for additive rates.

#### Oil Concentrate

The oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide food mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more, satisfactory than unrefined vegetable oils.

For additional information, see IV. General Mixing Information.

Adding an oil concentrate 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. Some oil concentrates cause excessive leaf burn so refer to your supplier for information concerning successful local experience before purchasing any oil concentrate.

# Oil Concentrate + Nitrogen Solution

A nonphytotoxic oil concentrate (as referred to above) plus a nitrogen solution (UAN or AMS) can be added to the spray tank with BASAGRAN AG.

Urea Ammonium Nitrate (UAN)

Commonly referred to as 28%, 30% or 32% nitrogen solution, 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 AG 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.

# Ammonium Sulfate (AMS)

When used, add 3 quarts of liquid AMS (8-8-0 analysis) or 2.5 pounds of granular AMS. Use only fine feed-grade or spray-grade AMS because inferior grades of AMS do not dissolve adequately and can plug spray nozzles. BASF does not recommend applying AMS if applied in less than 10 gallons per acre because of potential

problems with precipitation in reduced volumes. Use AMS only if it has been demonstrated to be successful in local experience.

Table 2. Additive Rate Per Acre

Additive	Ground Application	Air Application
AMS 1	2.5 pounds	2.5 pounds <sup>2</sup>
Oil Concentrate	1-2 pints	1 pint
UAN Solution1	4-8 pints	2-4 pints
	0.5 - 1pint	
Oil Concentrate	+	
+	2-4 pints of UAN	
Nitrogen <sup>1</sup>	or	
	1-2 pounds of AMS	

- 1 AMS and UAN are not for use in California.
- 2 AMS solution is not recommended due to potential precipitation problems in reduced water volumes. AMS can be used provided a minimum of 10 gallons of solution per acre is applied. Use only if the source of AMS has been demonstrated to be successful in local experience.

# IV. GENERAL MIXING INFORMATION

Additives and/or other pesticides may be mixed in the spray tank with BASAGRAN AG using the information in this section.

Tank Mix Partners/Components

The following products may be tank mixed with BASAGRAN AG according to the specific tank mixing instructions in this label and respective product labels.

- Arrosolo 3-3E/moliriate + propanil
- Atrazine
- Blazer /acifluorfen
- Buctril \*/bromoxynil
- Clarity dicamba
- Classic /chlorimuron
- Cobra / lactofen
- Concert / thifensulfuron chlorimuron
- Distinct diflufenzopyr dicamba
- Facet 75 DF/quinclorac
- FirstRate //cloransulam-methyl
- Flexstar / fomesafen
- Frontier dimethenamid
- Londax /bensulfuron
- Liberty / glufosinate

- Lightning / imazethapyr imazapyr
- Marksman /atrazine dicamba
- MCPA
- Paramount /quinclorac
- Pinnacle\*/thifensulfuron
- Poast \*/sethoxydim
- Poast Plus /sethoxydim
- Propanil
- Pursuit / imazethapyr
- Pursuit DG/imazethapyr
- Pursuit W/imazethapyr
- Pursuit W DG/imazethapyr
- Raptor<sup>™</sup>/imazamox
- Reflex /fomesafenReliance STS/chlorimuron+ thifensulfuron

- Resource /flumiclorac
- Roundup Ultra /glyphosate
- Scepter / imazaquin
- Sinbar /terbacil
- Starfire \*/paraquat
- Stinger clopyralid
- Storm / bentazon + acifluorfen
- Synchrony STS™/chlorimuro n+ thifensulfuron
  - Thistrol MCPB
  - 2,4-DB

See section VI. 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.

Separate applications should be made if all target weeds are not at the labeled growth stage for treatment at the same time.

Physical incompatibility, reduced weed control, or crop injury may result from mixing BASAGRAN AG 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.

Compatibility Test for Mix Components

Before mixing additives and/or other pesticides, always perform a compatibility jar test.

For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the Mixing Order using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, do not mix the ingredients in the same tank.

#### MIXING ORDER

When mixing additives and/or other pesticides in a spray tank, add the products to be used in the following sequence.

- Water. Begin by agitating a thoroughly clean sprayer tank, three-quarters full of clean water.
- Agitation. Maintain constant agitation throughout mixing and application.
- Products in PVA bags. Place any product contained in watersoluble PVA bags into the mixing tank. Wait until all watersoluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- Water-dispersible products (such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions.
- If an inductor is used, rinse it thoroughly after the component has been added.
- Water-soluble products (such as BASAGRAN AG® herbicide). If an inductor is used, rinse it thoroughly after the component has been added.
- Emulsifiable concentrates (such as oil concentrate when applicable). If an inductor is used, rinse it thoroughly after the component has been added.
- Water-soluble additives (such as AMS or UAN when applicable). If an inductor is used, rinse it thoroughly after the component has been added.
- Remaining quantity of water.

Maintain constant agitation during application.

# V. RESTRICTIONS AND LIMITATIONS - ALL CROPS

- Maximum seasonal use rate: Do not apply more than a total of 4 pints of BASAGRAN AG per acre, per season.
- Do not apply more than a total of 2.0 pounds of bentazon a.i. (from all sources) per acre, per season.
- Restricted Entry Interval (REI): Do not enter or allow worker entry into treated areas during the restricted entry interval of 48 hours.
- Do not apply to weeds under stress such as lack of moisture, herbicide injury, mechanical injury or cold temperatures, as 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, as 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 AG.
- Do not apply through any type of irrigation system.

# VI. CROP-SPECIFIC INFORMATION

Apply BASAGRAN AG early postemergence before weeds reach the maximum size listed in Table 1. Application Rates for Specific Weed Growth Stages for All Crops Except Rice (for rice, see rice section below).

# BEANS, DRY AND SUCCULENT

Beans are tolerant to BASAGRAN AG 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 (see Crop-Specific Restrictions and Limitations), This temporary injury is generally outgrown without delaying pod set or maturity or reducing yield. Using oil with BASAGRAN AG may increase injury and may reduce yields.

Tolerant bean types are adzuki, navy, pinto, pink, great northern, kidney, red, white, cranberry, black turtle soup, small lima, large lima, and snap beans.

Crop-Specific Restrictions and Limitations

Do not apply BASAGRAN AG to bean fields until beans have at least the first trifoliate leaf fully expanded because severe crop damage may occur.

Do not apply BASAGRAN AG to blackeyes grown in California or to garbanzo beans or lupines at any stage of growth, as severe crop damage may occur.

Do not apply BASAGRAN AG to dry or succulent beans within 30 days of harvest.

Use of an oil additive with BASAGRAN AG on snap beans may increase the leaf burn and injury potential.

California Only: Not recommended for use on adzuki beans. For yellow nutsedge control, apply 2 pints of BASAGRAN AG per acre when plants are 6-8 inches tall. Make a second application at the same rate 10-14 days later.

Special Use Directions for Split Applications of BASAGRAN AG for Broadleaf Weed Control in Selected Dry Bean Types in Michigan, Wisconsin, Minnesota, North Dakota, Colorado, Nebraska, and Wyoming.

BASAGRAN AG applied in a split application program will offer improved broadcast weed control compared to a single application. A planned split application of BASAGRAN AG will control common cocklebur, common lambsquarter, Pennsylvania smartweed, velvetleaf, Venice mallow, and wild mustard and will improve the control of common ragweed and wild sunflower and suppress kochia and redroot pigweed. Navy, Pinto, Kidney, and Great Northern dry beans are tolerant to split applications of BASAGRAN AG.

Special Use Directions for Split Applications of BASAGRAN AG in Selected Dry Bean Types

	Split Applica	tions*	
Weeds Controlled	BASAGRAN AG R		
	Leaf Stage	Maximum Height (inches)	Additive Rate***
Cocklebur	2-4	4	
Common	Up to 4	1	
Lambsquarter**			
Common Ragweed	Up to 2	1	COC at
Kochia***	Up to 4	1	1-2 pints
Pennsylvania	Up to 4	4 .	per acre
Smartweed			
Redroot Pigweed***	Up to 2	1/2	
Velvetleaf	Up to 3	2	
Venice Mallow	Up to 4	2	
Wild Mallow	Up to 4	2	
Wild Sunflower	Up to 2	3	

- \* Apply at 1 pint per acre of BASAGRAN AG before weeds exceed recommended growth stage and then make a second application 7-10 days later. Do not apply BASAGRAN AG by air if ornamental or sensitive non-target crops such as sugar beets, lentil, lupine, strawberry, sunflowers, or okra are within 200 feet downwind.
- \*\* For common lambsquarter infestations, the addition of a crop oil concentrate (COC) is recommended.
- \*\*\* For suppression only.
- \*\*\*\* For ground application use 2 pints COC per acre, for aerial application use 1 pint COC per acre.

For best results using aerial equipment, use a minimum of 5 gallons of water per acre and a minimum of 40 psi pressure. Refer to Section II. APPLICATION INSTRUCTIONS on page 4 for complete recommendations for Aerial Application Methods and Equipment.

Tank Mixes 🎇 Dry Beans

BASAGRAN AG may be applied in a tank mix with one of the following herbicides:

- Frontier
- Poast®

• Pursuit °

# • Pursuit DG

Tank Mixes - Succulent Beans BASAGRAN AG may be applied in a tank mix with one of the following herbicides:

• Poast

• Pursuit DG

• Pursuit

#### CLOVER GROWN FOR SEED

BASAGRAN AG is registered for postemergence use in clover grown for seed in Washington and Oregon. Clover is tolerant to BASAGRAN AG, however, some leaf-burning may occur under certain conditions but clover plants generally outgrow this condition within 10 days. Apply BASAGRAN AG in the spring as a broadcast foliar application at rates up to 2 pints per acre. If needed, a second application can be made at the same rate 5 to 14 days later. A nonphytotoxic crop oil concentrate (COC) should be added to the spray tank as recommended in Table 1-Application Rates for Specific Weed Growth Stages for All Crops Except Rice.

## CROP-SPECIFIC RESTRICTIONS AND LIMITATIONS

Do not graze livestock or harvest forage or hay for livestock feed for at least 36 days after treatment.

## CORN AND SORGHUM

Corn types include field, sweet, popcorn, and corn grown for seed or silage. Sorghum types include grain and forage sorghum. Seed producers should consult the seed company regarding tolerance of seed production inbred lines to BASAGRAN AG.

# CROP-SPECIFIC RESTRICTIONS AND LIMITATIONS

Apply no more than 2 pints of BASAGRAN AG per acre per season in sorghum.

Do not apply to sorghum that is heading or blooming.

Do not graze treated corn and sorghum fields for at least 12 days after the last treatment with BASAGRAN AG.

California only: Not recommended for controlling yellow nutsedge in corn or sorghum. Do not use on forage sorghum.

Tank Mixes - Corn And Sorghum

The tank mix of BASAGRAN AG + atrazine is not applicable in California.

BASAGRAN AG may be applied in a tank mix with one of the following herbicides on corn (including herbicides registered for use in corn hybrids tolerant to glyphosate, glufosinate and imidazolinone):

- Atrazine
- Clarity
- Distinct
- Frontier
- Liberty'
- Lightning

- Marksman<sup>®</sup>
- Pursuit"
- Pursuit DG
- Pursuit W
- Pursuit W DG
- Roundup Ultra®

BASAGRAN AG may be applied in a tank mix with one of the following herbicides in sorghum:

- Atrazine
- Clarity
- Frontier'

- Marksman<sup>®</sup>
- Paramount®

# FLAX

Apply BASAGRAN AG early postemergence as a directed spray. Flax is tolerant to BASAGRAN AG, however, some leaf speckling and leaf bronzing may occur under certain conditions. A nonphytotoxic crop oil concentrate (COC) should be added to the spray tank as recommended in Table 1- Application Rates for Specific Weed Growth Stages for All Crops Except Rice. A few crop oil concentrates have exhibited excessive leaf burn. However, a directed spray application should reduce the potential for leaf injury. Refer to your local supplier of BASAGRAN AG for information concerning successful local experience prior to purchasing any COC.

To control Musk Thistle apply 2 pints of BASAGRAN AG per acre when plants are in the rosette stage no larger than 10 inches in diameter. Make a second application at the same rate if needed. Add oil concentrate to the spray solution of BASAGRAN AG and water for each application.

# CROP-SPECIFIC RESTRICTIONS AND LIMITATIONS

Do not apply BASAGRAN AG 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 AG.

Do not apply more than 2 pints of BASAGRAN AG (1.0 pounds of a.i.) per acre per application.

Do not apply within 45 days of harvest.

Clean sprayer thoroughly prior to application of BASAGRAN AG, particularly if a herbicide was used which has the potential to to injure flax.

Do not use on flax in California or Florida.

## PEPPERMINT AND SPEARMINT

Peppermint and spearmint are tolerant to BASAGRAN AG; 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.

For hairy nightshade and kochia control, BASAGRAN AG up to 4.0 pints per acre as a single application. For kochia control, add oil concentrate.

Tank Mixes - Peppermint And Spearmint

BASAGRAN AG may be applied in a tank mix with one of the following herbicides:

• Buctril°

• Sinbar°

• Poast®

• Stinger

## PEAS, DRY AND SUCCULENT

Peas are tolerant to BASAGRAN AG after 3 pairs of leaves (or 4 nodes) are present. Pea injury such as yellowing, bronzing, speckling or burning of leaves may occur under certain conditions. This temporary injury is generally outgrown without delaying pod set or maturity or reducing yield.

Tolerant pea types are garden, English, and southern peas.

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

Crop-Specific Restrictions And Limitations

Do not apply BASAGRAN AG to dry peas within 30 days of harvest.

Do not apply BASAGRAN AG to succulent peas within 10 days of harvest. In California, do not apply to succulent peas within 30 days of harvest.

Do not apply BASAGRAN AG to peas under stress from root rot.

Do not apply BASAGRAN AG to blackeyes grown in California or to garbanzo beans or to lupines at any stage of growth, as severe crop damage may occur.

Do not apply BASAGRAN AG when peas are in bloom.

Do not add oil to BASAGRAN AG for use on peas, except for use in the Pacific Northwest (PNW).

In-furrow treatments of insecticides or nematicides may also predispose the peas to injury from BASAGRAN AG.

Tank Mixes - Peas

Tank mixes not applicable in California.

BASAGRAN AG may be applied in a tank mix with one of the following herbicides:

- MCPA
- Thistrol herbicide

The BASAGRAN AG + Thistrol tank mix is for use in ME, NH, VT, MA, CT, RI, NY, PA, NJ, VA, MD, DE, WA, ID, and OR. This tank mix should be applied after the 3-leaf stage (4-node stage) of peas, but not later than 3 nodes before pea flowering.

Notice to user: Due to variability among pea cultivators and in application techniques, neither the manufacturers nor the sellers have determined whether or not the tank mix of BASAGRAN AG + Thistrol can be safely used on all pea crops under all conditions. Therefore determine if the tank mix of BASAGRAN AG + Thistrol can be used safely prior to broad use.

For improved control of pigweed species and common lambsquarters, a tank mix of BASAGRAN AG + MCPA may be used.

Tank Mix Restrictions And Limitations

Do not use crop 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.

Crops other than peas may be severely injured by drift. Cotton, beans, grapes, tomatoes, and ornamentals are particularly sensitive to Thistrol.

#### PEANUTS

BASAGRAN AG can be applied from peanut cracking through pegging.

Peanut hay and forage may be fed to livestock.

In-furrow treatments of insecticides and nematicides may predispose peanuts to injury from BASAGRAN AG.

Crop-Specific Restrictions And Limitations

Do not graze treated peanut fields for at least 50 days after the last BASAGRAN AG treatment.

Tank Mixes - Peanuts

Tank mixes not applicable in California.

BASAGRAN AG may be applied in a tank mix with one of the following herbicides:

• Blazer°

• Starfire®

• Frontier

• 2,4-DB amine

• Poast"

The BASAGRAN AG + Starfire herbicide tank mix should be applied at the ground crack stage of peanuts to control an early flush of weeds. A second application may be applied up to 28 days after ground crack stage.

Always add a nonionic surfactant containing at least 50% surface active agent at recommended rates to the BASAGRAN AG + Starfire tank mix.

Tank Mix Restrictions And Limitations

Do not include UAN solution or ammonium sulfate when tank mixing BASAGRAN AG + Blazer + Poast herbicides.

Do not use crop oil concentrate or any other oil-based additive with the BASAGRAN AG + Starfire tank mix.

Do not add oil concentrate, UAN, or any other additives to BASAGRAN AG + 2,4-DB tank mix.

Use only amine formulations of 2,4-DB.

# RICE

Application Information

Not for use in California.

Apply BASAGRAN AG early postemergence, before weeds exceed the maximum size listed in Tables 3 and 4.

Application Equipment

For optimal coverage when applying BASAGRAN AG by air in rice, orient all nozzles straight back. Nozzles must not be located farther out than three-fourths the distance from the center of the aircraft to the end of the wing or rotor.

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 AG must be applied when there is no water on the field and 24 hours or more prior to flooding.

If BASAGRAN AG 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 should 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 AG. Do not raise water level for at least 24 hours after application as unsatisfactory control may result. Do not use ground equipment to apply to flooded fields because splashing will wash BASAGRAN AG 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 AG on rice fields in which the commercial cultivation of catfish or crayfish is practiced.

Do not use water containing BASAGRAN AG residues from rice cultivation to irrigate crops used for food or feed unless BASAGRAN AG is registered for use on these crops.

Do not apply more than 4 pints of BASAGRAN AG per acre per season whether one or two rice crops (including ration) are grown that season.

Tank Mixes - Rice

BASAGRAN AG may be applied in a tank mix with one of the following herbicides:

• Arrosolo

• Blazer

• Facet 75 DF

• Londax®

• Propanil

• Storm

When using Storm® herbicide in a tank mix, use 1.5 pints of Storm with 0.5-1.0 pint of BASAGRAN AG per acre.

Tank Mix Restrictions And Limitations

Do not apply the BASAGRAN AG + Arrosolo 3-3E herbicide tank mix to flooded fields.

Due to the potential for crop injury, do not apply oils, surfactants, or liquid fertilizers with the BASAGRAN AG + Arrosolo 3-3E tank mix except as specified on the Arrosolo 3-3E label.

Apply the BASAGRAN AG + Londax herbicide tank mix within 7 days of establishing permanent flood.

Apply the BASAGRAN AG + propanil tank mix only to drained fields.

Do not use crop oil concentrate with the BASAGRAN AG + propanil tank mix.

Add propanil to the tank mix of BASAGRAN AG based on active ingredient (a. i.) of formulation used. Test propanil products for physical tank mix compatibility with BASAGRAN AG.

Apply the BASAGRAN AG + Storm tank mix after the 3-leaf stage in rice.

Table 3. Application Rates for Rice - Flooded Fields

	App	olication Rates Fo	or Weed Growth St	ages¹	
	1.5 pint	s per acre	2 pints per acre		
Weeds Controlled	Maximum Height Above Soil	Height Range Above Water Level	Maximum Height Above Soil	Height Range Above Water Level	
Cocklebur	10"	3-6"	15"	6-10"	
Dayflower	6"	3-5"	10"	5-8"	
Redstem	4"	2-3"	8"	4-6"	
Smartweed	6"	2-5"	10"	5-8"	
Water					
Plantains	-		7"	5-6"	
, Arrowhead	-	-	7"	5-6"	
, Common	!				
Yellow Nutsedge	6"	4-5"	10"	6-8"	

If a second weed flush develops after the first application, re-treat according to this rate table.

Table 4. Application Rates for Rice - Drained Fields

Application Rates For Weed Growth Stages 1			
1.5 pints per acre 2 p			per acre
Leaf stage	Maximum Height	Leaf Stage	Maximum Height
2-10	10"	10-15	15"
2-10	6"	10-15	10"
-	-	6-10	6"
4-6	2"	4-6	2"
4-6	4"	6-10	8"
Up to 6	4"	6-10	8"
4 - 6	6"	10-15	8"
2-10	6"	6-8	10"
2-6	6"	6-8	8"
<b>-</b>	_	Up to 4	7"
***	-	Up to 4	7"
4 - 6	6"	6-8	10"
	1.5 pints Leaf stage 2-10 2-10 - 4-6 4-6 Up to 6 4-6 2-10 2-6	1.5 pints per acre  Leaf stage Maximum Height  2-10 10"  2-10 6"  - 4-6 2"  4-6 4"  Up to 6 4"  4-6 6"  2-10 6"  2-10 6"	1.5 pints per acre 2 pints  Leaf stage Maximum Height Leaf Stage  2-10 10" 10-15  2-10 6" 10-15  - 6-10  4-6 2" 4-6  4-6 4" 6-10  Up to 6 4" 6-10  4-6 6" 10-15  2-10 6" 6-8  2-6 6" 6-8

If a second weed flush develops after the first application, re-treat according to this rate table.

#### SOYBEANS

Soybeans are tolerant to BASAGRAN AG at all stages of growth. Slight leaf-speckling and leaf-bronzing may occur under certain conditions, but crops 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 AG.

Tank Mixes - Soybeans

Tank mixes not applicable in California.

BASAGRAN AG may be applied in a tank mix with one of the following herbicides (including RoundUp Ready®, Liberty Link® and  $STS^{TM}$  varieties):

- Blazer
- Classic \*
- Cobra
- Concert \*
- FirstRate'\*
- Flexstar
- Frontier
- Liberty

- Pinnacle \*\*
- Poast<sup>®</sup>
- Poast Plus
- Pursuit
- Pursuit DG
- Raptor
- Reflex 2LC
- Reliance STS\*

• Resource

• Synchrony STS

• Roundup Ultra

• 2,4-DB amine

• Scepter

\* For these tank mixes, the use of a nonionic surfactant (1-2 pints per 100 gallon) plus UAN (2-4 pints per acre) is recommended.

BASAGRAN AG + Blazer + Poast

Tank Mix Restrictions and Limitations

Oil concentrate must be used with the BASAGRAN AG + Blazer + Poast herbicide tank mix in place of a spray surfactant.

BASAGRAN AG + Reliance STS
Tank Mix Restrictions and Limitations

Do not add oil concentrate to this tank mix for use with soybean varieties other than those designated as STS.

BASAGRAN AG + 2,4-DB amine

Use only amine formulations of 2,4-DB.

Use no other adjuvant except UAN at 2-4 pints per acre with this tank mix.

Tank Mix Restrictions and Limitations

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.

Mixing with Insecticides

A need may arise that requires postemergence or foliar control of certain insects in the soybean crop. It is possible to tank mix an insecticide with BASAGRAN AG if the proper application timing of the insecticide coincides with the application timing of BASAGRAN AG. Insecticides that may be used are Furadan® 4F, Pounce®, Pydrin®, dimethoate, and Lorsban® 4E insecticides.

Do not tank mix BASAGRAN AG with malathion or Sevin® insecticides. The tank mix addition of an insecticide to BASAGRAN AG may increase the potential for crop injury.

The exact conditions under which an insecticide is tank mixed with BASAGRAN AG may vary and these conditions may reduce good mixing quality. Before a tank mix of BASAGRAN AG and an

insecticide is used, test the combination as instructed by the Compatibility Test for Mix Components.

Weeds Listed	In This Label:
Common Name	Scientific Name
Balloonvine	Cardiospermum halicacabum
Beggarticks	Bidens frondosa
Bindweed, Field	Convolvulus arvensis
Bindweed, Hedge	Convolvulus sepium
Bristly Starbur	Acanthospermum hispidum
Butterprint (see Velvetleaf)	
Buttonweed (see Velvetleaf)	
Canada Thistle	Cirsium arvense
Cocklebur	Xanthium strumarium
Coffee Senna	Cassia occidentalis
Common Lambsquarters	Chenopodium album
Common Purslane	Portulaca oleracea
Dayflower	Commelina spp.
Devilsclaw	Proboscidea louisianica
Ducksalad	Heteranthera limosa
Eclipta	Eclipta alba
Eastern Black Nightshade	Solanum ptycanthum
Galinsoga	Galinsogo spp.
Gooseweed	Sphenoclea zeylanica
Groundsel. Common	Senecio vulgaris
Jimsonweed	Datura stramonium
Kochia	Kochia scoparia
Ladysthumb	Polygonum persicaria
Marshelder	Iva xanthiofolia
Mayweed/Doqfennel	Anthemis cotula
Morningglory, Tall (Common)	Ipomoea purpurea
Morningglory, Cypressvine	Ipomoea quamoclit
Morningglory, Entireleaf	Ipomoea hederacea
Morninggrory, Entirelear	var. integriuscula
Manningglows Timilant	Ipomoea hederacea
Morningglory, Ivyleaf Morningglory, Palmleaf	Ipomoea wrightii
Morningglory, Pitted	Ipomoea lacunosa
Morningglory, Purple	Iomoea muricata
Moonflower	Tomoga muricata
Morningglory, Smallflower	Jacquemontia tamnifolia
Nightshade, Black	Solanum nigrum
Nightshade, Hairy	Solanum sarachoides
Nutsedge, Yellow	Cyperus esculentus
Pennsylvania, Smartweed	Polygonum pensylvanicum
Pigweeds	Amaranthus spp.
Prickly Sida or Teaweed	Amaranthus spp. Sida spinosa
Radish, Volunteer	orda sprinosa
	Raphanus raphanistrum
Radish, Wild	Ambrosia artemisiifolia
Ragweed, Common , Giant	Ambrosia artemisiifoffa Ambrosia trifida
Redstem	Ammannia spp.
Redweed	Melochia corchorifolia
Sesbania	Sesbania exaltata

Weeds Listed	In This Label:
Common Name	Scientific Name
Shepherdspurse	Capsella bursa-pastoris
Spikerush	Eleocharis macrostachya
Spurred Anoda	Anoda cristata
Sugar Beet, Volunteer	Beta vulqaris
Tropic Croton	Croton glandulosus
Velvetleaf	Abutilon theophrasti
Venice Mallow	Hibiscus trionum
Waterplantain, Arrowhead	
Waterplantain, Common	Alisma triviale
Wild Buckwheat	Polygonum convolvulus
Wild Mustard	Sinapsis arvensis
Wild Poinsettia	Euphorbia heterophylla
Wild Sunflower	Helianthus annuus

Crops :
This product can be used on the following crops:
Beans
Clover grown for seed
Corn
Flax
Peanuts
Peas
Peppermint
Rice
Sorghum
Soybeans
Spearmint
Look inside for complete Restrictions and Limitations and Application
Instructions.

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