

FORM: 1457-A  
NAME: Gangster V  
KIND: pamphlet  
DATE: 11/26/02

PRODUCT SIZE: —  
FINISHED SIZE: 6-3/8" x 4-1/4" open; 3-3/16" x 4-1/4" closed

■ BLACK



FOR CONTROL OF CERTAIN WEEDS IN SOYBEANS

Active Ingredient	By Wt.
*Flumioxazin	51%
Other Ingredients	49%
Total	100%

\*2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione

GANGSTER™ V is a water dispersible granule containing 51% active ingredient.

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Manufactured for  
**Valent U.S.A. Corporation**  
P.O. Box 8025  
Walnut Creek CA 94596-8025  
www.valent.com  
Form 1457-A Made in U.S.A.  
EPA Reg. No. 59639-99

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**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION**

Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust and spray mist. Avoid contact with skin, eyes or clothing.

**FIRST AID**

- If inhaled:** Move person to fresh air.  
If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.  
Call a poison control center or doctor for further treatment advice.
- 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 the first 5 minutes, then continue rinsing eye.  
Call a poison control center or doctor for treatment advice.
- 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 the poison control center or doctor.  
Do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

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**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, waterproof gloves, shoes and socks.

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

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to non-target plants and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff may be hazardous to non-target plants and aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

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

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

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.

**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 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 12 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.

**DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY**

**IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.**

**RISKS OF USING THIS PRODUCT**

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other

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AXIOM® – Reg. TM of Bayer Corporation  
 BOUNDARY® – Reg. TM of Syngenta  
 COBRA® – Reg. TM of Valent U.S.A. Corporation for lactofen herbicide  
 COMMAND® – Reg. TM of FMC Corporation for clomazone herbicide  
 DOMAIN® – Reg. TM of Bayer Corporation  
 DUAL® – Reg. TM of Syngenta for metolachlor herbicide  
 FRONTIER® – Reg. TM of BASF Corporation for dimethenamid herbicide  
 GANGSTER™ FR – TM of Dow AgroSciences LLC for cloransulam methyl herbicide  
 GANGSTER™ V – TM of Valent U.S.A. Corporation for flumioxazin herbicide  
 GRAMOXONE® EXTRA – Reg. TM of Syngenta for paraquat herbicide  
 LASSO® – Reg. TM of Monsanto Co. for alachlor herbicide  
 LOROX® – Reg. TM of E. I. DuPont de Nemours & Co., Inc. for linuron  
 MICRO-TECH® – Reg. TM of Monsanto Co. for alachlor herbicide  
 OUTLOOK® – Reg. TM of BASF Corporation for dimethanamid herbicide  
 PHOENIX™ – TM of Valent U.S.A. Corporation for lactofen herbicide  
 PYTHON® – Reg. TM of Dow AgroSciences LLC for flumetsulam herbicide  
 ROUNDUP READY® – Reg. TM of Monsanto Co.  
 ROUNDUP UltraMAX®, ROUNDUP Original™ – Reg. TM and TM of Monsanto Co. for glyphosate herbicide  
 SELECT® – Reg. TM of Valent U.S.A. Corporation for clethodim herbicide

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unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

**LIMITED WARRANTY**

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. EXCEPT AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.

No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

**LIMITATION OF LIABILITY**

In no event shall Valent or Seller be liable for any incidental, conse-

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quential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

**PROMPT NOTICE OF CLAIM**

Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

If Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

**NO AMENDMENTS**

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

**TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

**STORAGE AND DISPOSAL**

**PROHIBITIONS**

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

**STORAGE**

Keep pesticide in original container.  
 Store in a cool, dry, secure place.  
 Do not put formulation or dilute spray solution into food or drink containers.  
 Do not contaminate food or foodstuffs.  
 Do not store or transport near feed or food.  
 Not for use or storage in or around the home.  
 For help with any spill, leak, fire or exposure involving this material, call day or night (800) 892-0099.

**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**

Triple rinse (or equivalent). Do not reuse container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

OUTLOOK®) or alachlor (MICRO-TECH), may result in severe injury to soybeans when application is followed by prolonged periods of cool wet weather and should not be used with GANGSTER V.

**ROUNDUP READY® PROGRAM**

GANGSTER V may be applied as part of a burndown program or preemergence in conventional tillage programs, at 2 to 3 oz./A to reduce early season weed competition from waterhemp, velvetleaf, nightshade, and morningglories as well as other weeds listed in Tables 2 and 3 in ROUNDUP READY programs. A sequential post emergence application of glyphosate will be required to control weeds not controlled by GANGSTER V.

**Read tank mix product label for rates and weeds controlled. Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix product must be followed. GANGSTER V, when applied according to label use directions, will control the weeds listed in Table 2. This label makes no claims concerning control of other weed species.**

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**INCREASING SPEED OF GLYPHOSATE BURNDOWN ACTIVITY**  
 GANGSTER V, at rates as low as 1.0 oz./A, may be tank-mixed with glyphosate (ROUNDUP) to increase the speed of burndown activity compared to glyphosate applied alone. Residual weed control will not be provided at rates lower than 2 oz./A; however, suppression of the weeds in Table 2, Section A may occur at GANGSTER V rates as low as 1 oz./A.

**TANK MIXES**  
 GANGSTER V may be tank mixed with the herbicides listed in Table 4 for increased burndown activity, additional residual broadleaf, and/or additional grass control. Refer to tank mix partner's label for adjuvant recommendations.

**Table 4. Tank Mix Partners for Control of Emerged Weeds in Reduced Tillage Soybeans**

TANK MIX PARTNERS	TARGET WEEDS <sup>(1)</sup>
GRAMOXONE® EXTRA	Annual Grasses Henbit
Glyphosate	General Burndown
SELECT® 2 EC	Annual Grasses
2,4-D LVE	Marestail Giant Ragweed Dandelion

<sup>(1)</sup> Refer to tank mix product labels for specific recommendations for control of emerged weeds present.

**ADDITIONAL RESIDUAL BROADLEAF CONTROL**  
 GANGSTER V can be tank mixed with metribuzin, GANGSTER™ FR, LOROX® or PYTHON® for additional broadleaf control.

**ADDITIONAL RESIDUAL GRASS CONTROL**  
 GANGSTER V can be tank mixed with pendimethalin or COMMAND® for additional grass control. Tank mixes with fluthiamide (AXIOM or DOMAIN), metolachlor (DUAL products or BOUNDARY), dimethenamid (FRONTIER or

## DIRECTIONS FOR USE IN SOYBEANS

### GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz. of GANGSTER V per acre during a single growing season.
- Do not use GANGSTER V in soybeans in the same field flufenacet (AXIOM®, DOMAIN®), alachlor (MICRO-TECH®), metolachlor (DUAL products or BOUNDARY®), or dimethenamid (FRONTIER or OUTLOOK®) will be used or soybean injury may occur.
- Do not irrigate when soybeans are cracking.

### TIMING TO SOYBEANS

GANGSTER V may be applied to soybeans prior to planting or preemergence (after planting). Preemergence application of GANGSTER V must be made within 3 days after planting and prior to soybean emergence. Application after the soybeans have begun to crack, or are emerged, will result in severe crop injury. Application should not be made when soybeans have begun to crack. Select GANGSTER V rate from Table 2 according to anticipated weed spectrum.

### TIMING TO WEEDS

#### BURNDOWN - PREEMERGENCE TO SOYBEANS, POSTEMERGENCE TO WEEDS

GANGSTER V, applied as part of a burndown program, may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where soybeans will be planted directly into a stale seedbed, cover crop, or in previous crop residues. For control of emerged weeds, choose the most appropriate tank mix partner from Table 4. Apply GANGSTER V with ground equipment before planting, during planting, or within 3 days after planting, but before the crop emerges. To ensure thorough coverage, use a minimum of 15 gals. of spray solution per acre. Refer to tank mix partner's label for recommended application pressure. All GANGSTER V tank mixes applied to assist in the control of emerged weeds must be applied with crop oil concentrate or methylated seed oil at 1 to 2 pt./A.

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## GENERAL INFORMATION

Do not apply this product through any type of irrigation system.

### AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Where states have more stringent regulations, they should be observed.

GANGSTER V provides residual control of susceptible weeds in soybeans. GANGSTER V can also be used as part of a burndown program in soybeans. GANGSTER V can be used as part of early preplant burndown programs in cotton, field corn, rice, sorghum, sugarcane, sunflowers, tobacco, and wheat when applied more than 30 days prior to planting.

### GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply this product when weather conditions favor spray drift from treated areas.
- Do not graze treated fields or feed treated forage or hay to livestock.
- Do not incorporate into the soil after application.
- When applying by air, observe drift management restrictions and precautions listed under "AERIAL APPLICATION".

## ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

### PREEMERGENCE APPLICATIONS (Conventional Tillage)

**Important:** Crop injury may occur from applications made to poorly drained soils and/or applications made under cool, wet conditions. Risk of crop injury can be minimized by using on well drained soils, planting at least 1.5 inches deep, using high quality seed, and completely covering seeds with soil prior to preemergence applications. Treated soil that is splashed onto newly emerged crops may result in temporary crop injury.

Moisture is necessary to activate GANGSTER V in soil for residual weed control. Dry weather following applications of GANGSTER V may reduce effectiveness. However, when adequate moisture is received after dry conditions, GANGSTER V will control susceptible germinating weeds.

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GANGSTER V may not control weeds that germinate after application but before an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a GANGSTER V application, weed control may be improved by irrigation with at least 1/4 inch of water. If emerged weeds are controlled by cultivation, residual weed control will be reduced.

### BURNDOWN APPLICATIONS

For best results, GANGSTER V should be applied as part of a burndown program to actively growing weeds. Applying GANGSTER V under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply GANGSTER V when weeds are under stress due to drought, excessive water, extremes in temperature, disease, or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. GANGSTER V is most effective when applied under warm sunny conditions.

Reduced residual weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

GANGSTER V is rainfast one hour after application. Applications should not be made if rain is expected within one hour of application or efficacy may be reduced.

### SOIL CHARACTERISTICS

Application of GANGSTER V to soils with high organic matter and/or high clay content may require higher dosages than soils with low organic matter and/or low clay content. Application to cloddy seedbeds can result in reduced weed control.

### HERBICIDE RATE

#### RESIDUAL WEED CONTROL (INCLUDING PREEMERGENCE APPLICATIONS OR APPLICATIONS AS PART OF A SPRING BURNDOWN PROGRAM)

Based upon soil characteristics (organic matter content and texture), the most difficult-to-control weed species being targeted, and the crop being grown, select the proper GANGSTER V dosage from Table 2 when applying in soybeans. Table 3 lists weeds that are suppressed by GANGSTER V rates used in soybeans.

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Table 3. Weeds Suppressed by Residual Activity of GANGSTER V in Soybeans

BROADLEAF WEED SPECIES		ORGANIC MATTER	OUNCES PER ACRE
COMMON NAMES	SCIENTIFIC NAMES		
Bristly Starbur	Acanthospermum hispidum	Up to 5%	2.5 to 3.0
Copperleaf, Hophornbeam	Acalypha ostryifolia		
Ragweed, Giant	Ambrosia trifida		
Russian Thistle	Salsola iberica		
Smartweeds			
Ladysthumb	Polygonum persicaria		
Pennsylvania	Polygonum pennsylvanicum		
Velvetleaf	Abutilon theophrasti		
GRASS WEED SPECIES		ORGANIC MATTER	OUNCES PER ACRE
COMMON NAMES	SCIENTIFIC NAMES		
Barnyardgrass	Echinochloa crus-galli	Up to 5%	2.5 to 3.0
Crabgrass, Large	Digitaria sanguinalis		
Foxtail, Giant	Setaria faberi		
Goosegrass	Eleusine indica		
Lovegrass, California	Eragrostis diffusa		
Panicums			
Fall	Panicum dichotomiflorum		
Texas	Panicum texanum		
Signalgrass, Broadleaf	Brachiaria platyphylla		

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**SECTION B**

All weeds listed in Section A plus:

COMMON NAMES	SCIENTIFIC NAMES	ORGANIC MATTER	SOIL TYPE	GANGSTER V RATES
Coffee Senna	Cassia occidentalis	Up to 3%	All Soil Types	2.5 oz./A Soybeans
Common Ragweed <sup>(1)</sup>	Ambrosia artemisiifolia			
Golden Crownbeard	Verbesina encelioides	3 to 5%	Coarse and Medium Soils: (sandy loam, loamy sand, loamy silt-loam, silt, sandy clay, sandy clay loam)	2.5 oz./A Soybeans
Florida Beggartweed	Desmodium tortuosum			
Hairy Indigo	Indigofera hirsuta			
Hemp Sesbania	Sesbania exaltata			
Jimsonweed	Datura stramonium			
Morningglories <sup>(2)</sup>				
Entireleaf	Ipomoea hederacea var. integruscula			
Ivyleaf	Ipomoea hederacea			
Red/Scarlet Tall	Ipomoea coccinea			
Mustard, Wild	Ipomoea purpurea			
Palmer Amaranth	Brassica kaber	Fine Soils: (silty clay, silty clay loam, clay, clay loam)	3.0 oz./A Soybeans	
Spurred Anoda	Amaranthus palmeri			
Tropic Croton	Anoda cristata			
Waterhemp <sup>(1)</sup>	Croton glandulosus			
Common Tall	Amaranthus rudis			
Wild Poinsettia	Amaranthus tuberculatus			
	Euphorbia heterophylla			

<sup>(1)</sup> A postemergence herbicide, such as COBRA® PHOENIX™ or glyphosate (ROUNDUP READY® soybeans only) may be needed following a preemergence application of GANGSTER V to adequately control common ragweed or waterhemp in soybean fields with heavy pressure.  
<sup>(2)</sup> Morningglory species are not adequately controlled on fine soils or soils with greater than 3% organic matter.

**CARRIER VOLUME AND SPRAY PRESSURE** (Ground Equipment only. See Information for Aerial Equipment under "AERIAL APPLICATION".)

**PREEMERGENCE APPLICATIONS (Conventional Tillage)**

To ensure uniform coverage, use 10 to 30 gals. spray solution per acre for conventional-tillage applications. Nozzle selection should meet manufacturer's gallonage and pressure recommendations for preemergence herbicide application.

**BURNDOWN APPLICATIONS (Prior to Crop Emergence)**

To ensure thorough coverage in burndown applications, use 15 to 30 gals. spray solution per acre. Use 20 to 30 gals. per acre if dense vegetation or heavy crop residue is present. Nozzle selection should meet manufacturer's gallonage and pressure recommendations for postemergence herbicide application.

**ADDITIVES**

**BURNDOWN APPLICATIONS (Prior to Crop Emergence)**

Postemergence control of weeds from GANGSTER V requires the addition of an agronomically approved adjuvant to the spray mixture. Either a crop oil concentrate or methylated seed oil which contains at least 15% emulsifiers and 80% oil, may be used when applying GANGSTER V as part of a burndown program. Some tank mix partners, such as Roundup UltraMAX™, are formulated with sufficient adjuvants and do not require the addition of a crop oil concentrate or methylated seed oil when tank mixed with GANGSTER V. The addition of a crop oil concentrate or methylated seed oil may increase the burndown activity on certain weeds such as cut-leaf evening primrose and Carolina geranium. Mixing compatibility qualities should be verified by a jar test.

A spray grade nitrogen source (either ammonium sulfate at 2.0 to 2.5 lbs./A or a 28 to 32% nitrogen solution at 1 to 2 qts./A) may be added to the spray mixture along with either a crop oil concentrate or methylated seed oil to enhance weed control. The addition of a nitrogen source does not replace the need for a crop oil concentrate or a methylated seed oil.

**JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND GANGSTER V HERBICIDE**

When using GANGSTER V and an adjuvant, such as in stale seed bed or

reduced tillage situations, a jar test should be performed before mixing commercial quantities of GANGSTER V, when using GANGSTER V for the first time, when using new adjuvants, or when a new water source is being used.

1. Add 1 pt. of the water to a quart jar. The water should be from the same source and temperature as which will be used in the spray tank mixing operation.
2. Add 1 g of GANGSTER V to the quart jar for every 3 oz. of GANGSTER V/A being applied (1 g if 3 oz./A is the desired GANGSTER V rate), gently mix until product goes into suspension.
3. Add 60 ml (4 tbsp. or 2 fl. oz.) of the crop oil or methylated seed oil to the quart jar, gently mix.
4. If nitrogen is being used, add 16 ml (1 tbsp. or 0.5 oz.) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 g AMS to the quart jar in place of the 28 to 32% nitrogen.
5. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
6. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed the choice of adjuvant should be questioned:
  - a) Layer of oil or globules on the mixture's surface.
  - b) Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
  - c) Clabbering: Thickening texture (coagulated) like gelatin.

**SPRAYER PREPARATION**

Before applying GANGSTER V, start with clean, well maintained application equipment. The spray tank, as well as all hoses and booms, must be cleaned to ensure no residue from the previous spraying operation remains in the sprayer. Some pesticides, including but not limited to, the sulfonyleurea and phenoxy herbicides, (i.e. Classic® and 2,4-D respectively) are active at very small amounts and can cause crop injury when applied to susceptible crops. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply GANGSTER V. If two or more products were tank-mixed prior to GANGSTER V application, the most restrictive cleanup procedure should be followed.

**SECTION A (continued)**

COMMON NAMES	SCIENTIFIC NAMES	ORGANIC MATTER	SOIL TYPE	GANGSTER V RATES
Nightshades		Up to 5%	All Soil Types	2.0 oz./A
Black	Solanum nigrum			
Eastern Black	Solanum ptycanthum			
Pigweeds				
Redroot	Amaranthus retroflexus			
Smooth	Amaranthus hybridus			
Spiny Amaranth	Amaranthus spinosus			
Tumble	Amaranthus albus			
Prickly Sida (Teaweed)	Sida spinosa			
Puncturevine	Tribulus terrestris			
Purslane, Common	Portulaca oleracea			
Redmaids	Calandrinia ciliata var. menziessi			
Shepherdspurse	Capsella bursa-pastoris			
Smallflower	Jacquemontia			
Morningglory	tamniifolia			
Spotted Spurge	Euphorbia maculata			
Venice Mallow	Hibiscus trionum			

(continued)

GANGSTER V can be used at 1 to 3 oz./A with labeled preplant burndown herbicides to enhance the speed of burndown and increase weed spectrum.

GANGSTER V can be used at 1 to 3 oz./A in soybean burndown programs. See "DIRECTIONS FOR USE IN SOYBEANS" for more information.

**RECOMMENDATIONS FOR WEED CONTROL IN SOYBEANS**

Table 2 lists broadleaf weeds controlled by residual activity of GANGSTER V in soybeans. Table 3 lists weeds suppressed by residual activity of GANGSTER V in soybeans.

**Table 2. Broadleaf Weeds Controlled by Residual Activity of GANGSTER V in Soybeans**

BROADLEAF WEED SPECIES				
SECTION A				
COMMON NAMES	SCIENTIFIC NAMES	ORGANIC MATTER	SOIL TYPE	GANGSTER V RATES
Carpetweed	Mollugo verticillata	Up to 5%	All Soil Types	2.0 oz./A
Common Chickweeds	Stellaria media			
Common Mouseear	Cerastium vulgatum			
Dandelion	Taraxacum officinale			
Eclipta	Eclipta prostrata			
Eveningprimrose	Oenothera laciniosa			
Cutleaf				
Florida Pusley	Richardia scabra			
Henbit	Lamium amplexicaule			
Kochia	Kochia scoparia			
Lambsquarters, Common	Chenopodium album			
Little Mallow	Malva parviflora			
Marestail/Horseweed	Conyza canadensis			

(continued)

**MIXING INSTRUCTIONS**

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
2. To ensure a uniform spray mixture, pre-slurry the required amount of GANGSTER V with water prior to addition to the spray tank. Use a minimum of 1 gal. of water per 10 oz. of GANGSTER V.
3. While agitating, slowly add the pre-slurried GANGSTER V to the spray tank. Agitation should create a rippling or rolling action on the water surface.
4. If tank mixing GANGSTER V with other labeled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates, and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
5. Add any required adjuvants.
6. Fill spray tank to desired level with water. **Agitation should continue until all spray solution has been applied.**
7. Mix only the amount of spray solution that can be applied the day of mixing. GANGSTER V should be applied within 6 hours of mixing.

**SPRAYER CLEANUP**

Spray equipment must be cleaned each day following GANGSTER V application. After GANGSTER V is applied, the following steps must be used to clean the spray equipment:

1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
2. Fill the spray tank with clean water and flush all hoses, booms, screens, and nozzles.
3. Top off tank, add 1 gal. of 3% household ammonia for every 100 gals. of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, screens, and nozzles for a minimum of 15 minutes.
4. Drain tank completely.
5. Add enough clean water to the spray tank to allow all hoses, booms, screens, and nozzles to be flushed for 2 minutes.
6. Remove all nozzles and screens and rinse them in clean water.

Spray equipment, including all tanks, hoses, booms, screens, and nozzles, should be thoroughly cleaned before it is used to apply postemergence pesticides. Equipment with GANGSTER V residue remaining in the system may result in crop injury to the subsequently treated crop.

**APPLICATION EQUIPMENT**

Application equipment should be clean and in good repair. Nozzles should be uniformly spaced on boom and frequently checked for accuracy.

**BROADCAST APPLICATION**

Apply GANGSTER V, and GANGSTER V tank mixes, with ground equipment using standard commercial sprayers equipped with flat fan or flood nozzles (preemergence applications only) designed to deliver the desired spray pressure and spray volume.

**BAND APPLICATION**

When banding, use proportionately less water and GANGSTER V per acre.

**AERIAL APPLICATION**

Spray drift away from the site of application may cause damage to non-target vegetation. To minimize drift, apply the largest droplet size consistent with uniform coverage and satisfactory weed control. To obtain satisfactory application and avoid drift, the following directions must be observed:

- Do not apply during low-level inversion conditions, when winds are gusty, or under other conditions that favor drift. Do not spray when wind velocity is less than 2 mph or more than 10 mph.
- Do not apply this product by air within 40 feet of non-target plants including non-target crops.
- Do not apply this product by air within 40 feet of streams, wetlands, marshes, ponds, lakes, and reservoirs.
- **Carrier Volume and Spray Pressure:** When used as part of a burndown weed control program, apply GANGSTER V in 7 to 10 gals. of water per acre. Application at less than 7 gals. per acre may provide inadequate control. When used for preemergence weed control, apply GANGSTER V in 5 to 10 gals. per acre of water. The higher gallonage applications generally afford more consistent weed control. Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types,

**Table 1. Weeds Controlled by Preplant Burndown Programs (continued)**

WEEDS CONTROLLED <sup>(1)</sup>		Postemergence			
COMMON NAMES	SCIENTIFIC NAMES	Program 1	Program 2	Program 3	Residual
<b>Weeds 3 inches or less</b>					
Marestail, Horseweed	Conyza canadensis	Yes	No	Yes	Yes
Purple Deadnettle	Lamium purpureum	Yes	Yes	Yes	Yes
<b>Weeds 12 inches or less</b>					
Carolina Geranium	Geranium carolinianum	Yes	Yes	Yes	-
Eveningprimrose, Cutleaf <sup>(3)</sup>	Oenothera laciniosa	Yes	Yes	Yes	Yes
Mustard, Wild Shepherdspurse	Brassica kaber Capsella bursa-pastoris	Yes	Yes	Yes	Yes

<sup>(1)</sup> Refer to glyphosate and/or 2,4-D labels for additional weeds controlled and rotational restrictions.

<sup>(2)</sup> 1 lb. ai/A of 2,4-D LVE (equivalent to 2 pt./A of 2,4-D 4 LVE) should be used for control of emerged dandelion.

<sup>(3)</sup> Program 1 should be used to control eveningprimrose that are nearing 12 inches in height or are past the rosette stage. Programs 2 or 3 should be used to control eveningprimrose that are 12 inches or less and in the rosette stage.

**SPRING BURNDOWN PROGRAMS**

GANGSTER V can be used in combination with labeled preplant burndown herbicides to control emerged weeds and provide residual weed control prior to crop emergence. Weeds controlled by residual activity are listed in Table 2, Section A.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row. Apply GANGSTER V after planting when these types of planters are used (within 3 days of planting and before the crop emerges).

(continued) Herbicide	Rate
<b>Program 2</b>	
GANGSTER V plus Glyphosate	2 to 3 oz./A  0.5 to 1.0 lb. ai/A (equivalent to 1 to 2 pt./A of ROUNDUP Original)
plus COC	1 to 2 pt./A
or	
<b>Program 3</b>	
GANGSTER V plus 2,4-D LVE (2,4-D for use on preplant soybeans only)	2 to 3 oz./A  0.5 to 1.0 lb. ai/A (equivalent to 1 to 2 pt./A of 2,4-D 4 LVE)
plus COC	1 to 2 pt./A

**Table 1. Weeds Controlled by Preplant Burndown Programs**

COMMON NAMES	SCIENTIFIC NAMES	Postemergence			Residual
		Program 1	Program 2	Program 3	
<b>Weeds 3 inches or less</b>					
Chickweed Common <sup>(2)</sup>	Stellaria media	Yes	Yes	No	Yes
Mouseear <sup>(2)</sup>	Cerastium vulgatum	Yes	Yes	No	Yes
Dandelion	Taraxacum officinale	Yes	No	Yes <sup>(2)</sup>	Yes
Groundsel, Cressleaf	Senecio glabellus	Yes	Yes	-	Yes
Henbit	Lamium amplexicaule	Yes	Yes	Yes	Yes

(continued)

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GANGSTER V RATES	CROPS	ROTATION INTERVALS
2 oz./A or less	Soybean	Immediately
	Cotton, Field Corn, Rice, Sorghum, Sugarcane, Sunflower, Tobacco, and Wheat	30 days <sup>(1)</sup>
	Barley, Dry Bean, Field Pea, Rye, and Sweet Corn	4 Months
	Alfalfa, Canola, Clover, Oats, Sugar Beet, and all other crops not listed	12 Months <sup>(2)</sup>
Up to 3 oz./A	Soybean	Immediately
	Cotton, Field Corn, Rice, Sorghum, Sugarcane, Sunflower, Tobacco, and Wheat	2 Months
	Barley, Dry Bean, Field Pea, Rye, and Sweet Corn	4 Months
	Alfalfa, Canola, Clover, Oats, Sugar Beet, and all other crops not listed	12 Months <sup>(2)</sup>

<sup>(1)</sup> At least one inch of rainfall/irrigation must occur between application and planting or crop injury may occur.

<sup>(2)</sup> Successful soil bioassay must be performed prior to planting alfalfa, canola, sugar beets and other crops not listed.

#### RESISTANCE MANAGEMENT

Any weed population may contain or develop plants naturally resistant to herbicides in various mode of action classes. Resistant biotypes may eventually dominate the weed population if the same class of chemistry/mode of action herbicides are used repeatedly in the same field or in successive years. These resistant biotypes may not be adequately controlled by herbicides in a mode of action class for which resistance has developed. A gradual or total loss of weed control may occur over time. Other resistance mechanisms that are not linked to site of action, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

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lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

- **Nozzle Selection and Orientation:** Formation of very small drops may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray pressure. Use nozzles which produce flat or hollow cone spray patterns. Use non-drip type nozzles, such as diaphragm-type nozzles, to avoid unwanted discharge of spray solution. The nozzles must be directed toward the rear of the aircraft, at an angle between 0 and 15° downward. Do not place nozzles on the outer 25% of the wings or rotors.
- **Adjuvants and Drift Control Additives:** Refer to tank mix partner's label for adjuvant recommendation. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

#### CROP FAILURE

If the crop treated with GANGSTER V is lost due to a catastrophe, such as hail or other forms of inclement weather, soybeans can be replanted immediately, provided no more than 3 oz./A of GANGSTER V has been used on the lost crop. Cotton, field corn, rice, sorghum, sunflowers, tobacco, and wheat can be planted 30 days after a GANGSTER V application, provided no more than 2 oz./A of GANGSTER V had been used on the lost crop and a minimum of 1 inch of rainfall/irrigation has occurred between GANGSTER V application and replanting. Crop injury may occur if these restrictions are not followed.

#### ROTATIONAL RESTRICTIONS

The following rotational crops may be planted after applying GANGSTER V at the listed rate. Planting earlier than the recommended rotational interval may result in crop injury.

#### TO DELAY HERBICIDE RESISTANCE

- Avoid the use of herbicides that have a similar target site mode of action in consecutive years.
- Herbicide use should be based on an Integrated Pest Management (IPM) program that includes scouting, record keeping, and consideration of cultivation practices, water management, weed free crop seed, crop rotation, and other chemical or cultural control practices.
- Monitor treated weed population for resistance development and report suspected resistance.
- Contact your local extension or crop expert (advisor) for any additional pesticide resistance management and/or IPM recommendations for specific crops and weed biotypes.
- For further information, contact Valent U.S.A. Corporation at the following toll free number 1-800-682-5368.

#### DIRECTIONS FOR USE IN PREPLANT BURNDOWN PROGRAMS IN SOYBEANS (Preemergence to Crop)

#### GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply to frozen or snow covered soil.
- Do not perform any tillage operation after application or residual weed control will be reduced.

Weeds controlled by postemergence or residual activity are listed in Table 1. Preplant burndown treatment tank-mixes and rates are:

Herbicide	Rate
<b>Program 1</b>	
GANGSTER V plus Glyphosate	2 to 3 oz./A  0.5 to 1.0 lb. ai/A (equivalent to 1 to 2 pt./A of ROUNDUP Original™)
plus 2,4-D LVE (2,4-D for use on preplant soybeans only)	0.5 to 1.0 lb. ai/A (equivalent to 1 to 2 pt./A of 2,4-D 4 LVE)
plus COC	1 to 2 pt./A
or	

(continued)

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