59639-118 02/28/2001 1/29

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

NOTICE OF PESTICIDE:
__x__ Registration
_____ Reregistration
(under FIFRA, as amended)

EPA Reg. Number:	Date of Issuance:
59639-118	FEB 28 2001

Term of Issuance: Conditional

Name of Pesticide Product: V-10086 Herbicide

Name and Address of Registrant (include ZIP Code):

Valent U.S.A. Corporation
1333 North California Blvd., Suite 600
Walnut Creek, CA 94596-8025

Note: 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 and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Add the phrase "EPA Registration No. 59639-118" to your label before you release the product for shipment.

3. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

Signature of Approving Official: /S/

Date: FEB 28 2001

EPA Form 8570-6

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 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

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VALENT®

ACCEPTED
with COMMENTS
In EPA Letter Dated:
FEB 2 8 2001
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 59639-116

V-10086 Herbicide

Active Ingredient	By Wt.
Lactofen 1-(carboethoxy) ethyl 5-[2-chloro-4-(trifluoromethyl) phenoxy]-2-nitrobenzoate	23.2%
Other Ingredients	76.8%
Total	100.0%

~~*1-(carboethoxy) ethyl 5-[2-chloro-4-(tri-fluoromethyl) phenoxy]-2-nitrobenzoate~~

Contains Petroleum Distillates

Contains 2 lbs. active ingredient per gallon

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

KEEP OUT OF REACH OF CHILDREN

DANGER — PELIGRO

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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

NET WEIGHT 1 GALLON

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

DANGER: Corrosive. Causes skin burns and irreversible eye damage. Harmful if swallowed, inhaled, or absorbed through skin. Do not get in eyes or on skin or clothing. Avoid breathing vapor or spray mist. This product contains lactofen, which has been determined to cause tumors in laboratory animals (mouse, rat). Risks can be reduced by closely following use directions and precautions, and by wearing the protective clothing specified elsewhere on this label.

FIRST AID	
• **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:**	• Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor • Do not give **any** liquid to the person. • Do not give anything by mouth to an unconscious person.
• **If inhaled:**	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
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.	
NOTE TO PHYSICIANS	
Contains petroleum distillate - vomiting may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage.	

~~**STATEMENT OF PRACTICAL TREATMENT:**~~

~~**If in eyes:** Flush with plenty of water for at least 15 minutes. Get medical attention immediately.~~

~~**If swallowed:** DO NOT INDUCE VOMITING. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. Get medical attention immediately.~~

~~If on skin: Wash with plenty of soap and water. Get medical attention.~~
~~If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.~~

~~Note to Physicians: Emergency Information — call 1-800-892-0099.~~

PERSONAL PROTECTIVE EQUIPMENT (PPE):
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as Barrier Laminate or Viton ≥ 14 mils, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, and chemical-resistant apron when cleaning equipment, mixing, or loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS:
This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of waste. Do not apply when weather conditions favor drift from target area.

This chemical (lactofen) has properties and characteristics associated with chemicals detected in groundwater. Acifluorfen, a degradate of this chemical, is known to leach through soil into groundwater under certain conditions as a result of labeled use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

PHYSICAL OR CHEMICAL HAZARDS:
Do not use or store near heat or open flame.

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 over long-sleeved shirt and long pants, chemical-resistant gloves, such as Barrier Laminate or Viton $\geq$ 14 mils, socks plus chemical-resistant footwear, protective eyewear, and chemical-resistant headgear for overhead exposure.

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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 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, consequential, 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.

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Emergency Telephone Number 1-800-892-0099.

DIRECTIONS FOR USE IN SOYBEANS

GENERAL INFORMATION

V-10086 HERBICIDE HAS A ADJUVANT/SURFACTANT SYSTEM BUILT INTO THE FORMULATION. BECAUSE OF THIS BUILT-IN ADJUVANT SYSTEM WEED CONTROL CAN BE ACHIEVED WITH MINIMAL ADDITIONAL ADJUVANTS NEEDING TO BE ADDED.

V-10086 Herbicide is a selective, broad spectrum herbicide for preemergence and postemergence control of susceptible broadleaf weeds. V-10086 is formulated as an emulsifiable concentrate containing 2 lbs. of active ingredient per gallon. In the upper North Central region of the midwest, postemergence applications of V-10086 to soybeans (at or just before 1st bloom) has resulted in suppression of the soybean disease white mold caused by *Sclerotinia sclerotiorum*.
V-10086 works primarily through contact action. Good coverage of young, actively growing weeds is essential for maximum weed control. The use of a water based spray adjuvant is usually required. Refer to the label section on ADJUVANTS AND ADDITIVES for specific recommendations.
When V-10086 is applied post emergence, a portion of the spray solution may contact the soil surface. If soil moisture conditions are favorable for preemergence activity following the application, suppressed germination of small-seeded broadleaf weeds, such as nightshade species, pigweed species, and prickly sida may be expected for a 2 to 3 week period. The presence of excessive crop or weed foliage at the time of application will reduce the amount of herbicide spray contacting the soil surface and will reduce the level of soil activity.

A temporary crop response should be expected following a postemergence application of V-10086. Soybean leaves which are open at the time of application will show some burn, bronzing and speckling. Trifoliate soybean leaves which have emerged but are unopened at the time of application may appear cupped at the tip and/or crinkled along the edges of the leaf. Soybeans quickly outgrow all initial herbicide effects. When V-10086 is used as directed, under commercial conditions soybean yields will not be adversely affected. Under conditions of normal weed growth V-10086 is rainfast 60 minutes after application.

PRECAUTIONS

Apply V-10086 preplant, preemergence, and/or postemergence, but do not apply later than 45 days before harvest or after growth stage R6 (full seed).
Do not exceed a total of 25 fl. oz. (0.4 lb. a.i.) per acre per season.
NOTE: New York State Only - Apply V-10086 Herbicide only as a postemergence herbicide once per growing season, at a maximum seasonal application rate not to exceed 12.5 fl. oz (0.2 lb. a.i.) per acre, and not later than 90 days before harvest.
Do not graze animals on green forage or stubble. Do not feed treated soybean silage (ensiled soybeans) to cattle. Do not utilize hay or straw for animal feed or bedding.

APPLICATION

CONVENTIONAL ROW APPLICATION TIMING

For best results, V-10086 and V-10086 Tank Mixes should be applied to small actively growing weeds that are not larger than indicated in Table 2S. Normally this occurs 14 to 21 days after planting or after last field preparation, when soybeans are at the first to second trifoliate leaf stage.
Soybeans at or larger than the third trifoliate stage may interfere with the spray pattern and reduce coverage of the weed leaves. Do not apply V-10086 when the soybeans or the weeds are under stress. Applying V-10086 under conditions that do not promote active weed growth will reduce herbicide effectiveness. These conditions include drought, excessive water, extremes in temperature, and low humidity. Weeds under stress tend to "harden off" and become less susceptible to herbicidal action. Do not cultivate prior to or during application. Do not generate excessive dust while spraying. Excessively dusty conditions may interfere with the coverage of the weed leaf surface by the spray solution. A timely cultivation approximately one week after application will assist in weed control.

DRILLED/SOLID SEEDED APPLICATION TIMING

Under drilled/solid-seeded soybean cropping systems, a dense crop canopy develops more rapidly than conventional row spacings. The crop canopy may restrict penetration of the herbicide spray pattern and reduce coverage of the weed foliage. Applications should be made when soybeans are at the first trifoliate leaf stage, usually 7 to 10 days after planting. Delaying application beyond the first

trifoliate leaf stage may result in unsatisfactory weed control. For improved weed coverage and canopy penetration in drilled or solid seeded soybeans, the higher range of spray volume and pressure is required. See the BROADCAST GROUND APPLICATIONS section of this label for application information.

EARLY APPLICATION TIMING

For early control of Pigweeds, Eastern Black Nightshade, Common Ragweed, Giant Ragweed, Copperleaf, Common Purslane, Hairy Galinsoga, Cutleaf Groundcherry, and Jimsonweed, apply V-10086 Herbicide when soybeans have emerged and are in the cotyledon to unifoliate stage, normally 5 to 7 days after planting. Weed growth may not be visible or may be in the cotyledon stage of growth at early application.

BROADCAST GROUND APPLICATION

V-10086 and V-10086 tank mixes can be applied by ground equipment using standard commercial sprayers equipped with flat fan or hollow cone nozzles. V-10086 is a contact herbicide. Special attention should be given to preparing and operating the sprayer to assure proper coverage of the weed leaf surface.

Use V-10086 on a broadcast basis in 15 to 20 gals. of water per acre and a spray pressure of 40 to 60 PSI measured at the boom. Apply V-10086 using a flat fan or hollow cone nozzle designed to deliver the desired spray pressure and spray volume. Avoid use of flat fan nozzles larger than 8006 (or equivalent) because they do not break up spray patterns into small enough droplets to provide adequate weed coverage for foliar herbicides. Spray nozzles should be centered at a 20 inch spacing to provide adequate coverage. Ground speed should not exceed 10 mph to provide proper spray coverage. Boom height, ground speed, and pressure recommendations should not exceed those recommended by the spray nozzle manufacturer for the type and size of nozzle being used. Improper use of the selected spray nozzle will adversely affect the spray pattern, prevent proper coverage of weed leaf surface, and reduce weed control. Refer to the manufacturer's spray chart for nozzle selection and operating information.

REFER TO THE AERIAL APPLICATION SECTION FOR SPECIFIC INSTRUCTIONS FOR AERIAL APPLICATION.

DO NOT USE THE FOLLOWING DELIVERY SYSTEMS TO APPLY V-10086 HERBICIDE:

1 — Flood Nozzles
2 — Control Droplet Applicators (CDA)
3 — Flat Fan Nozzles Larger than 8006
4 — Spray rigs which utilize wheel driven pumps

BAND APPLICATION

Row banding equipment should be adjusted to provide maximum coverage of weeds in the row. Base the band use of V-10086 and V-10086 tank mixes on a broadcast use rate of 15 to 20 gallons of water per acre by reducing the spray gallons in proportion to the area actually treated. The spray pressure should be 40 to 60 PSI measured at the boom. A minimum of two nozzles per row is required to provide optimum coverage of the weed foliage.

DO NOT make band applications while cultivating or create excessive dust while spraying. Excessively dusty conditions will interfere with proper coverage of the weed leaf surface, thereby reducing contact activity.

LOW VOLUME GROUND APPLICATION

Application of V-10086 and V-10086 tank mixes using a low volume application require a minimum of 10 gals. of spray solution per acre.

A minimum of 20 gals. of spray solution per acre is required in North Dakota, South Dakota and Minnesota.

Applications at less than 10 gals. per acre will provide inconsistent weed control. The spray pressure at the boom should be between 40 to 60 PSI. Flat fan nozzles are recommended at 20 inch spacing for proper spray coverage. To provide adequate coverage flat fan nozzles larger than 8006 (or equivalent) should not be used. Height of the spray boom should be adjusted so as not to exceed the manufacturer's recommendation for proper coverage by the spray nozzle being used. Maximum speed of operation should not exceed 10 mph as spray coverage of weed foliage may be adversely affected.

AERIAL APPLICATION

To obtain satisfactory weed control with aerial applications of V-10086, and V-10086 tank mixes,

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except 2,4-DB, uniform coverage must be obtained. Do not spray when drift is possible or when wind velocity is more than 5 mph. Avoid spraying V-10086 within 200 ft. of dwellings, or adjacent sensitive crops such as ornamentals, cotton, tobacco, or sorghum. To obtain satisfactory application and minimize drift, the following directions must be observed:
Volume and Pressure: Use V-10086 in 5 to 10 gals. water per acre and a maximum spray pressure of 40 PSI. Applications at less than 5 gals. per acre will provide inadequate control. The higher gallonage applications generally afford more consistent weed control.
Nozzle and Nozzle Orientation: 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 wings or rotors.

Table 1S.

ADJUVANTS AND ADDITIVES	
V-10086 Herbicide is a specially designed formulation in which an adjuvant/surfactant system is built into the formulation. Therefore the need for additional adjuvants to be added are minimized.	
Method of Application	**Recommendations**
Ground	Add a water based nitrogen-sourced spray adjuvant at the use rate of 1pint per acre to all applications. In addition spray grade ammonium sulfate(AMS) can be added at the rate of 2.0 pounds per acre to enhance weed control under stress conditions or when tank mixed with other products. Crop oil concentrate is not recommended unless otherwise recommended on this label. When weeds reach the maximum growth stage or when tank mix partners require the addition of non-ionic surfactant (NIS), NIS should be added at the rate of 0.125% v/v. V-10086 applied in 15 gallons of water per acre at the use rate of 12.5 fl. oz./A provides an adjuvant/surfactant use rate of 0.35% v/v per acre. Therefore as the rate of V-10086 goes down the need for adding additional spray adjuvant is increased. It is at the lower use rates of V-10086 (equal to and less than 8 fl.oz./A) that the benefit of adding AMS to the mix would be more evident.
Air	Add a water based spray adjuvant at 1pint per acre or NIS at 0.125% v/v per acre.
Tank Mix Recommendations: When tank mixing V-10086 Herbicide with SELECT 2 EC Herbicide at use rates equal to 8 fl. oz./A and above, a water based nitrogen-sourced spray adjuvant plus AMS at 2.0 pounds per acre is required. When the use rate of V-10086 Herbicide is below 8 fl.oz./A the adjuvant recommendation is 0.125% v/v NIS plus 2 pounds per acre AMS.	

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ADJUVANTS AND ADDITIVES

V-10086 Herbicide is a specially designed formulation in which a adjuvant/surfactant system is built into the formulation. Therefore the need for additional adjuvants to be added are minimized.

Ground Applications: Add a water based spray adjuvant (such as Pro-X) at the use rate of 1pint per acre to all applications. In addition spray grade ammonium sulfate(AMS) can be added at the rate of 2.0 pounds per acre to enhance weed control under stress conditions or when tank mixed with other products. Crop oil concentrate is not recommended unless otherwise recommended on this label. When weeds reach the maximum growth stage or when tank mix partners require the addition of non ionic surfactant (NIS), NIS should be added at the rate of 0.125% v/v. V-10086 applied in 15 gallons of water per acre at the use rate of 12.5 fl. oz./A provides an adjuvant/surfactant use rate of 0.35% v/v per acre. Therefore as the rate of V-10086 goes down the need for adding additional spray adjuvant is increased. It is at the lower use rates of V-10086 (equal to and less than 8 fl.oz./A) that the benefit of adding AMS to the mix would be more evident.

Air Applications: Add a water based spray adjuvant at 1pint per acre or NIS at 0.125% v/v per acre.

Tank Mix Recommendations: When tank mixing V-10086 Herbicide with SELECT 2 EC Herbicide at use rates equal to 8 fl. oz./A and above a water based spray adjuvant (such as Pro-X) plus AMS at 2.0 pounds per acre is required. When the use rate of V-10086 Herbicide is below 8 fl.oz./A the adjuvant recommendation is 0.125% v/v NIS plus 2 pounds per acre AMS.

MIXING INSTRUCTIONS

Add about l/2 of the required amount of water to the spray tank and begin agitation. Add the required amount of tank mix partner (if applicable) and mix thoroughly. Add the required amount of V-10086 Herbicide and ~~mix thoroughly~~ continue mixing. Finally, ~~Then~~ add the correct amount of ~~adjuvant~~ crop oil concentrate, non-ionic surfactant and/or ammonium sulfate, and the remaining water. Maintain agitation during filling and spraying to ensure a uniform spray mixture.

WEEDS CONTROLLED BY V-10086 HERBICIDE

Identify your weed species as early as possible and determine the stage of growth by counting the true leaves. Ignore the cotyledon (seed leaves) when you count.
Use Table 2S of this label to determine the maximum weed leaf stage before which you must apply V-10086 for effective weed control of the species desired.

Table 2S.

WEEDS CONTROLLED BY V-10086 HERBICIDE IN SOYBEANS
WEED GROWTH STAGES
12.5 FL. OZ. PER ACRE

Common Name	Maximum Leaf Stages
Balloonvine	4
Beggarticks	6
Bristly Starbur	4
Buffalobur	4
Burcucumber	4
Carpetweed	8 in. diameter
Common Cocklebur	6
Common Purslane	8 in. diameter
Copperleaf	
Hophornbeam	6
Virginia	4

Common Name	Maximum Leaf Stages
Croton	
Tropic	4
Woolly	4
Devilsclaw	4
Eclipta	6
Florida Beggarweed	2
Florida Pusley	6
Groundcherry	
Cutleaf	6
Lanceleaf	6
Hairy Galinsoga	4
Hemp Sesbania	6
Jimsonweed	4
Kochia	8
Lanceleaf Sage	4
Mexicanweed	4
Morningglories	
Cypressvine	4
Entireleaf*	2
Ivyleaf*	2
Palmleaf*	4
Pitted*	4
Purple Moonflower*	4
Smallflower*	4
Tall*	4
Nightshades	
Black	6
Eastern Black	6
Hairy	4
Pigweeds	
Palmer Amaranth**	6
Prostrate	6
Redroot	6
Smooth	6
Spiny Amaranth	6
Poorjoe	6
Prickly Sida (Teaweed)	4
Puncturevine	1.5 in. diameter
Ragweeds	
Common	8
Giant	6
Showy Crotalaria	4
Smell Melon	6
Spurge	
Prostrate	1 in. diameter
Spotted	4
Toothed	4
Venice Mallow	4
Waterhemp**	
Common	6
Tall	6
Wild Mustard	6
Wild Poinsettia	4
Wild Sunflower*	2
Witchweed	6 to 8 in. prior to bloom

* Non-ionic surfactant is required at the rate of 0.125% v/v for control.

** When Palmer Amaranth or Waterhemp pressure is severe, a preemergence program with activity on Amaranthus species is recommended to control the early flush. Follow with V-10086 to control the escaped weeds.

Table 3S.

WEEDS SUPPRESSED BY V-10086 HERBICIDE
WEED GROWTH STAGES
12.5 FL. OZ. PER ACRE

Common Name	Maximum Leaf Stages
Coffee Senna*	2
Pennsylvania Smartweed	4
Sicklepod*	2
Spurred Anoda	2
Velvetleaf	4

* Suppression may be improved when V-10086 is applied following a preemergence application of LASSO® or DUAL® at the recommended rates.
Suppression of growth, not acceptable commercial control, may be expected when these weeds are treated with V-10086.

The addition of crop oil concentrate at 0.5% v/v is required for suppression of these weeds. Cultivation 1 week to 10 days after treatment will usually aid in obtaining satisfactory suppression of these weeds.

Table 4S.

PERENNIAL WEEDS SUPPRESSED BY V-10086 HERBICIDE
WEED GROWTH STAGES
12.5 FL. OZ. PER ACRE

Common Name	Maximum Leaf Stages
Canada Thistle	6
Milkweeds	
Climbing	6
Common	6
Morningglory	
Bigroot (Wild Sweet Potato)	6
Redvine	6
Swamp Smartweed	6
Trumpetcreeper	6

The addition of crop oil concentrate at 0.5% v/v is required to burn back existing above-ground vegetation and may retard the growth of new foliage.

Table 5S.

TALL WEEDS SUPPRESSED BY V-10086 HERBICIDE
WEED GROWTH STAGES
12.5 FL. OZ. PER ACRE

Common Name	Weed Height-Inches*
Burcucumber	15 to 36
Jimsonweed	15 to 36
Ragweed	
Common	15 to 36
Giant	15 to 36
Velvetleaf	15 to 36

*When V-10086 is applied at this height, complete control should not be expected.

The addition of crop oil concentrate at 0.5% v/v is required for suppression of these weeds.

DO NOT APPLY LATER THAN 45 DAYS BEFORE HARVEST OR AFTER GROWTH STAGE R6 (FULL SEED).

Table 6S.

WHITE MOLD* SUPPRESSION BY V-10086 HERBICIDE
SOYBEAN GROWTH STAGE
6 TO 8 FL. OZ. PER ACRE**

Common Name	Soybean Growth Stage	Adjuvant Recommendation
White Mold (Sclerotinia stem rot) Suppression	Applications of V-10086 for white mold suppression in soybeans must be made at or just before 1st bloom. Generally this occurs after the 4th trifoliate is fully expanded.	Water Based Spray Adjuvant 0.5 to 1.0 pt./A Non-Ionic Surfactant 0.125% v/v

* The soybean disease white mold is caused by Sclerotinia sclerotiorum.

** Rates higher than 8 oz./A will not increase the level of white mold suppression. In cases where rates higher than 8 oz./A are desired for weed control please refer to Table 8S or Table 2S.

NOTE: It has been shown that the effects of V-10086 on white mold is not a fungicidal response but one that may involve Systemic Acquired Resistance (SAR).

PRECAUTION: DO NOT APPLY V-10086 AFTER WHITE MOLD INFECTION HAS OCCURRED.

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V-10086 HERBICIDE PREEMERGENCE FOLLOWED BY REDUCED RATES OF V-10086 HERBICIDE POSTEMERGENCE

GENERAL INFORMATION

V-10086 may be utilized as a preemergence soil applied herbicide for control of annual broadleaf weeds in soybeans. Following a preemergence application of V-10086, a postemergence application of V-10086 may be applied in combination with other broadleaf herbicides for the control of escaped weeds.

Best results will be obtained when soybeans are planted and preemergence applications of V-10086 are made in warm, moist soils which promote rapid emergence of target weeds.

Do not apply V-10086 during periods when soybeans and the weeds are under stress or when conditions do not favor active weed growth.

Do not apply more than 19 fl.oz. (0.3 lb. a.i.) preemergence per acre per season.

Table 7S.

V-10086 Herbicide Preemergence Control Followed by Postemergence Application to Control Escaped Weeds - Soybean - Rates and Time of Application.

PREEMERGENCE APPLICATION OF V-10086 HERBICIDE

Product	Product Rate	Weeds Controlled	Adjuvant
V-10086	12.5 to 15 fl. oz./A	Black Nightshade Pigweed Smooth Redroot	None
V-10086	15 to 19 fl. oz./A	Copperleaf Jimson Weed Common Lambsquarter Common Ragweed Prickly Sida (Teaweed) Tall Waterhemp	None

FOLLOWED BY POSTEMERGENCE APPLICATION OF V-10086 HERBICIDE

Product	Product Rate	Weeds Controlled	Adjuvant
V-10086	12.5 fl. oz./A	Refer to Table 2S for Postemergence Control of Escaped Weeds.	Refer to Table 1S
V-10086	6 to 12.5 fl. oz./A	Refer to Tables 8S & 9S when tank mixing with other broadleaf herbicides.	See Tables 1S

Use Restrictions for V-10086 Herbicide Applied Preemergence Followed by V-10086 Herbicide Applied Postemergence:

1. Always read and follow all label directions when using any pesticide alone or sequentially. The most restrictive labeling applies when using a tank mix.
2. For preemergence control of grasses, tank mix V-10086 with appropriate grass herbicide.
3. Do not apply V-10086 less than 45 days before harvesting soybeans or after growth stage R6 (full seed).
4. Do not graze treated fields or harvest forage or hay.
5. Do not apply V-10086 postemergence if rain is expected within 60 minutes of application or unsatisfactory weed control may result.
6. Do not apply more than 25 fl. oz./A of V-10086 per season.

7. Do not apply to soils containing more than 3.5% organic matter.
8. New York State Only - Apply V-10086 only as a postemergence herbicide once per growing season, at a maximum seasonal application rate not to exceed 12.5 fl. oz (0.2 lb. a.i.) per acre, and not later than 90 days before harvest.

V-10086 HERBICIDE
REDUCED RATES TO CONTROL SMALL BROADLEAF WEEDS IN SOYBEANS

GENERAL INFORMATION

For best results, V-10086 should be applied to actively growing weeds. Do not apply V-10086 during periods when the soybeans and the weeds are under stress or when conditions do not favor active weed growth. Refer to the V-10086 soybean label for application timing.

Table 8S.

V-10086 Herbicide - Soybeans - Reduced Rates and Time of Application Table.

Product	Rate/Acre	Broadleaf Weeds Controlled	Leaf Stage
V-10086	6 fl. oz.	Nightshade, Black	up to 3
		Ragweed, Common	up to 4
		Waterhemp	up to 4
	8 fl. oz.	Cocklebur, Common	up to 4
		Jimsonweed	up to 4
		Nightshade, Black	up to 4
		Pigweeds	
		Redroot	up to 6
		Smooth	up to 6
		Ragweeds	
		Common	up to 6
		Giant	up to 4
		Waterhemp	up to 6
	10 fl. oz.	Cocklebur, Common	up to 5
		Jimsonweed	up to 4
		Nightshade, Black	up to 5
		Pigweeds	
		Redroot	up to 6
		Smooth	up to 6
		Ragweeds	
		Common	up to 6
		Giant	up to 6
		Waterhemp	up to 6

Adjuvant: V-10086 must be applied with 1 pt./A water based spray adjuvant. The addition of liquid nitrogen (28, 30, or 32%) up to 4% v/v or ammonium sulfate at 2 to 4 lbs./A in combination with COC may enhance weed control.

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BROADLEAF HERBICIDE TANK MIXES WITH V-10086 HERBICIDE

Table 9S.

For weeds not listed for postemergence control with V-10086, the herbicides listed below may be used per label use instructions. When applied in tank mix combinations with other herbicides, follow all use instructions for all products, including application rates, precautions and restrictions for each product used in the tank mixture, including use of adjuvants. The most restrictive labeling applies when using a tank mixture. This product cannot be mixed with any product containing a label prohibition against mixing.

For tank mixtures the maximum spray volume to be used is 15 gallons per acre. At this spray volume the adjuvant/surfactant use rate contained in V-10086 ranges from 0.17 to 0.35% v/v per acre, when the V-10086 use rate is 6 to 12.5 fl.oz./A, respectively. When tank mixing V-10086 at the 12.5 fl. oz./A rate the weeds claimed are shown in Table 2S. When tank mixing V-10086 at use rates less than 12.5 fl. oz./A refer to Table 8S for weeds claimed.

Broadleaf Herbicides	Grass Herbicides
Basagran Classic 2,4-DB FirstRate Pursuit Scepter Raptor Roundup Ultra Max(1) Reliance STS(2) Synchrony STS	Select

(1) Use in RR soybeans only
(2) For use in STS soybeans only)

MIXING INSTRUCTIONS

Add about l/2 of the required amount of water to the spray tank and begin agitation. Add the required amount of tank mix partner (if applicable) and mix thoroughly. Add the required amount of V-10086 Herbicide and continue mixing. Finally, add the correct amount of crop oil concentrate, non-ionic surfactant and/or ammonium sulfate, and the remaining water. Maintain agitation during filling and spraying to ensure a uniform spray mixture.

DIRECTIONS FOR OUTDOOR USE IN CONIFER SEEDLINGS AND CONIFER NURSERIES

GENERAL INFORMATION

V-10086 Herbicide is a selective herbicide for outdoor use on and around conifer seedlings when used according to this label. V-10086 Herbicide works primarily through contact activity. V-10086 Herbicide may be used on the tolerant conifer species listed below.

V-10086 Herbicide may be applied for preemergence and/or postemergence broadleaf weed control in conifer seedbeds, container-grown conifers, seedling transplants and conifer plantations (but not in forests).

IMPORTANT: Occasionally slight needle burn may be observed on the youngest growth following

application. New growth will be normal and the seedlings will continue vigorous growth under favorable environmental conditions.

IMPORTANT
Plant tolerance to V-10086 Herbicide at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of V-10086 Herbicide have investigated the safety factor to plants not listed on the label.

CONIFER SPECIES

V-10086 Herbicide may be applied to conifer seedbeds of numerous species including the following:

Fir	**Scientific Name**
Douglas	*Pseudotsuga menzesii*
Fraser	*Abies fraseri*
Grand	*Abies grandis*
Noble	*Abies procera*
Hemlock	
Eastern Hemlock	*Tsuga canadensis*
Western Hemlock	*Tsuga heterophylla*
Pine	**Scientific Name**
Eastern White	*Pinus strobus*
Jack	*Pinus banksiana*
Loblolly	*Pinus taeda*
Lodgepole	*Pinus contorta*
Longleaf	*Pinus palustris*
Ponderosa	*Pinus ponderosa*
Sand	*Pinus clausa*
Scotch	*Pinus sylvestris*
Shortleaf	*Pinus echinata*
Slash	*Pinus elliottii*
Virginia	*Pinus virginiana*
Spruce	
Blue	*Picea pungens*
Dwarf Alberta	*Picea glauca conica*
Norway	*Picea abies*
Sitka	*Picea sitchensis*

PREEMERGENT APPLICATIONS

Preemergent applications of V-10086 Herbicide should be made to tilled, weed free, planted seedbeds or to weed-free container-grown seedlings after sowing but prior to seedling emergence. V-10086 Herbicide may be incorporated with 0.25 to 0.5 inch water following application and before conifer seedling emergence. A preemergent (to weeds) application of V-10086 Herbicide may be sprayed directly over conifers recently transplanted providing bud break has not yet occurred. Do not mechanically incorporate V-10086 Herbicide. After preemergent application of V-10086 Herbicide to seedbeds, soil should not be disturbed because herbicidal effectiveness will be decreased. V-10086 Herbicide may be used as a preemergent application to conifers, when used as directed in **Table A**.

TABLE A. PREEMERGENT APPLICATIONS

V-10086 Herbicide Rate	Adjuvant	Weeds Controlled
8 to 16 fl. oz./A (0.125 to 0.250 lb. a.i./A)	None	Clover (*Trifolium spp.*) Common Chickweed Common Groundsel Common Purslane Common Ragweed Cottonwood *(Populus spp.)* Lambsquarter Mustard species Nightshade species Pearlwort Pigweed species Pineapple Weed Sowthistle Spurge Prostrate Spotted Willow (*Salix spp.)*

POSTEMERGENT APPLICATIONS

Postemergent applications of V-10086 Herbicide should be made when weeds are actively growing and no larger than 4 inches in height. V-10086 Herbicide works primarily through contact activity. Conifer seedlings will tolerate postemergent treatments when applications are made following complete stand emergence and when the primary shoot growth is complete and has hardened off. Some forking and stunting of seedling may result if V-10086 Herbicide is applied to newly emerged seedlings. Conifer transplants will tolerate postemergent treatments when applications are made before bud break or after foliage has had an opportunity to harden off. Occasionally slight needle burn will be observed on the youngest conifer growth following application. New growth will not be adversely affected and conifers will continue vigorous growth under favorable environmental conditions. V-10086 Herbicide may be used in postemergent applications to conifers, when used as directed in **Table B**.

TABLE B. POSTEMERGENT APPLICATIONS

V-10086 Herbicide Rate	Adjuvant	Weeds Controlled (up to 4 inches)
6.5 to 16 fl. oz./A* (0.10 to 0.25 lb. a.i./A)	0.25% v/v non-ionic surfactant or 0.125% v/v crop oil concentrate**	Carpetweed Clover (*Trifolium spp.)* Common Chickweed Common Dayflower Common Groundsel Common Purslane Common Ragweed Cottonwood (*Populus spp.)* Dogfennel Eclipta Florida Beggerweed Florida Pusley Hairy Galinsoga Mayweed Morningglory species Mustard species Nightshade species Pearlwort Pigweed species Pineapple Weed Poorjoe Prickly Sida Showy Crotalaria Sowthistle Spurge Prostrate Spotted Tropic Croton Willow (*Salix spp.*) Witchweed Yellow Woodsorrel

* Four applications at weekly intervals of 6.5 fl. oz./A or two applications at two week intervals of 13 fl. oz./A are recommended for Southern pine species only.

** Crop oil concentrate has been proven safe only in Southern pine conifer species (after primary shoot growth has begun).

APPLICATION INSTRUCTIONS

Thoroughly mix V-10086 Herbicide with clean water and apply at 30 to 50 PSI in 20 to 40 gals. per acre. Flat fan or hollow cone nozzles are recommended. Applications made at less than 20 gals. per acre or less than 30 PSI will not provide complete coverage of the weeds and will result in incomplete weed control.

Care should be taken to ensure your nursery species are tolerant to V-10086 Herbicide applications. In each nursery it is suggested that V-10086 Herbicide be tested on each species in limited areas prior to an operational application.

Use Restrictions for V-10086 Herbicide in Conifer Seedlings:

1. Do not apply V-10086 Herbicide when conifers are under stress from diseases, animal or winter injury, planting shock or other stresses.
2. The total amount of V-10086 Herbicide used per season must not exceed 26 fl. oz./A.
3. **Do not apply V-10086 Herbicide with spray adjuvants while conifer shoot growth is young and has not hardened off.**

V-10086 HERBICIDE FOR POST-DIRECTED APPLICATION IN KENAF

GENERAL INFORMATION

V-10086 Herbicide is a broadspectrum contact herbicide for postemergence directed control of broadleaf weeds in kenaf. Apply V-10086 Herbicide postemergence as a directed spray application following a preplant incorporated or preemergence herbicide(s) for early season control of grasses and broadleaf weeds. Use V-10086 Herbicide as a postemergence directed application when the kenaf plant has reached a minimum height of 10 inches and a height difference of 3 to 5 inches has been established between the lower leaves of the kenaf plant and the top of the broadleaf weeds. Make one (1) application per season.

Misapplication resulting in V-10086 Herbicide coming into contact with the kenaf plant may result in injury of kenaf plants.

The postemergence directed applications of V-10086 Herbicide or V-10086 Herbicide tank mixes should use equipment designed to minimize spray solution contacting the kenaf plant. This equipment would include spray nozzles positioned a minimum of 3 inches above the soil surface and angled backward so that the spray solution discharges to the rear and underneath the row canopy, nozzles as described above with leaf lifters or shields and/or plastic preformed hooded sprayers positioned to run between the kenaf rows, all of which are designed to help reduce spray contact with the kenaf plant.

Under conditions of normal weed growth, V-10086 Herbicide may be applied up to 60 minutes before rainfall without reducing weed control.

~~This chemical (lactofen) has properties and characteristics associated with chemicals detected in groundwater. Acifluorfen, a degradate of this chemical, is known to leach through soil into groundwater under certain conditions as a result of labeled use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.~~

KENAF TOLERANCE

Apply V-10086 Herbicide to kenaf **ONLY** as a **DIRECTED SPRAY** application with nozzles set to deliver the spray mixture toward the base of the kenaf plant, as specified in the "Timing" and "Application" sections of this label. Lower leaves which are contacted by the spray mixture will appear spotted or light brown to bronze in color. This response will have no effect on the growth or development of the kenaf crop, and all growth following application will be normal.

It is essential to establish a height differential of 3 to 5 inches between the crop and the target weeds prior to application to ensure full coverage of the weed leaf surfaces while minimizing direct contact of the spray mixture with the upper leaves and terminal area of the kenaf plant.

V-10086 Herbicide is a contact herbicide. It does not move throughout the kenaf plant and it will not vaporize off the soil surface.

DO NOT apply V-10086 Herbicide **OVER-THE-TOP** of kenaf.

TIMING

Post-Directed: KENAF 10" or More	For best results, V-10086 Herbicide should be applied to small, actively growing weeds. Nozzles should be set to spray no higher than the bottom 2 to 3 inches of the kenaf stalk and still fully cover the target weeds. A properly timed directed spray application will provide control of labeled weeds not larger than indicated in Table 2S.

Apply V-10086 Herbicide under conditions that promote active weed growth. **DO NOT** apply V-10086 Herbicide when weeds are under stress. Weeds under stress tend to "harden off" and become less susceptible to herbicide activity. **DO NOT** apply V-10086 Herbicide under conditions of drought or when rainfall has been less than 1 inch in a consecutive 2-week period, when excessive water has saturated the field for 3 or more consecutive days or when high temperatures are in combination with low soil moisture or in combination with low humidity. Applying V-10086 Herbicide under these conditions may result in unsatisfactory weed control.

Conditions such as those described above which precede or immediately follow a V-10086 Herbicide application may adversely affect the performance of the herbicide.

DIRECTED BAND APPLICATION

Directed row banding is required for use of V-10086 Herbicide in kenaf. Two nozzles per row, one on each side, are required for postemergence directed application. Tractor ground speed should not exceed 5 mph. The spray equipment used should accurately direct the spray pattern to the base of the kenaf plant to minimize contact with the kenaf plant and provide good coverage of the target weeds. Spray nozzles should be positioned a minimum of 3 inches above the soil surface and angled backward so that the spray solution discharges to the rear and under the row canopy. The use of leaf lifters or shields on application equipment is recommended to help reduce spray contact with the kenaf plant. Row banding equipment should be adjusted to provide maximum coverage of weeds in the banding area.

SPRAYER CALIBRATION

FIELD CALIBRATE YOUR SPRAYER: Improper calibration will adversely affect the spray pattern and reduce weed control. Delivery rates shown in equipment catalogs may not accurately reflect your actual delivery rate. When calibrating, spray pressure should be measured at the spray nozzle to assure accurate delivery rates. Refer to manufacturer's chart for recommended spray volume, spray pressure, and ground speed for the nozzles and the directed spray system you are using.
HERBICIDE RATES, ADJUVANT RATES AND SPRAY VOLUME RECOMMENDATIONS are presented as BROADCAST EQUIVALENTS, and must be reduced in proportion to the area actually treated. Use the following formulas to calculate the correct rate and volume per planted (field) acre:

$$\frac{\text{BandWidth (inches)}}{\text{Row Width (inches)}} \times \text{Broadcast Rate/Acre} = \text{Amount of Herbicide Needed per Field Acre}$$

$$\frac{\text{BandWidth (inches)}}{\text{Row Width (inches)}} \times \text{Broadcast Volume/Acre} = \text{Amount of Water Needed per Field Acre}$$

CULTIVATION

When postemergence directing V-10086 Herbicide at the same time as cultivation, the spray nozzles must be positioned in front of the cultivation equipment. Applying V-10086 Herbicide at the time of cultivation under dry soil conditions will cause excessive dust which will prevent proper contact between V-10086 Herbicide and the weed surface. This reduced contact will decrease weed control activity. In addition, applying V-10086 Herbicide while cultivating at ground speeds greater than 5 mph will prevent good coverage of the weed surface by the spray solution and reduce weed control activity.

APPLICATION RATES

Apply V-10086 Herbicide at a rate of 12.5 fl. oz. per acre on a broadcast basis. The sprayer must be equipped with flat fan or off-center fan nozzles designed to deliver 10 to 30 gals. of water per acre when operated at a spray pressure of 20 to 30 PSI measured at the nozzle. Pressures greater than 30 PSI may cause the spray mist to move upward into the kenaf canopy resulting in severe crop injury.

Table 1K.

APPLICATION RATES
POST-DIRECTED: KENAF 10" OR MORE
V-10086 HERBICIDE

Application Timing	Broadcast Rate/Acre	Adjuvant*	Weeds	Comments
Post-directed: KENAF 10" or more	12.5 fl. oz.	1% v/v crop oil concentrate or 0.25 to 0.5% v/v non-ionic surfactant	Refer to Table 2S.	Reduce broadcast rate in proportion to band area actually treated (See SPRAYER CALIBRATION).

* The use of spray adjuvants will provide enhanced control of broadleaf weeds.

APPENDIX

The following are scientific names for the weeds listed on this label:

COMMON NAME	SCIENTIFIC NAME
Balloonvine	*Cardiospermum halicacabum*
Beggarticks	*Bidens frondosa*
Bristly Starbur	*Acanthospermum hispidum*
Buffalobur	*Solanum rostratum*
Burcucumber	*Sicyos angulatur*
Canada Thistle	*Cirsium arvense*
Carpetweed	*Mollugo verticillata*
Clover	*Trifolium spp.*
Coffee Senna	*Cassia occidentalis*
Common Chickweed	*Stellaria media*
Common Cocklebur	*Xanthium strumarium*
Common Groundsel	*Senecio valgaris*
Common Lambsquarters	*Chenopodium album*
Common Purslane	*Portulaca oleracea*
Copperleaf	
Hophornbeam	*Acalypha ostryifolia*
Virginia	*Acalypha virginica*
Cottonwood	*Populus spp.*
Croton	
Tropic	*Croton glandulosus*
Woolly	*Croton capitatus*
Dayflower	*Commelina spp.*
Devilsclaw	*Proboscidea louisianica*
Dogfennel	*Eupatorium capillifolium*
Eclipta	*Eclipta prostrata*
Florida Beggarweed	*Desmodium tortuosum*
Florida Pusley	*Richardia scabra*
Galinsoga	*Galinsoga spp.*
Goosegrass	*Eleusine indica*
Groundcherry	
Cutleaf	*Physalis angulata*
Lanceleaf	*Physalis lanceifolia*
Hairy Galinsoga	*Galinsoga ciliata*
Hemp Sesbania	*Sesbania exaltata*
Jimsonweed	*Datura stramonium*
Kochia	*Kochia scroparia*
Lanceleaf Sage	*Salvia reflexa*
Mayweed	*Anthemis cotula*
Mexicanweed	*Caperonia castaniifolia*
Milkweeds	
Climbing	*Sarcostemma cynanchoides*
Common	*Asclepias syriaca*
Morninglories	
Bigroot (Wild Sweet Potato)	*Ipomoea pandurata*
Cypressvine	*Ipomoea quamoclit*
Entireleaf	*Ipomoea hederacea var. integriuscula*
Ivyleaf	*Ipomoea hederacea*
Palmleaf	*Ipomoea wrightii*
Pitted	*Ipomoea lacunosa*
Purple Moonflower	*Ipomoea turbinata*
Smallflower	*Jacquemontia tamnifolia*
Tall	*Ipomoea purpurea*
Mustard species	*Descurainia, Sinopis*

COMMON NAME	SCIENTIFIC NAME
Nightshades	
Black	*Solanum nigrum*
Eastern Black	*Solanum ptycanthum*
Hairy	*Solanum sarrachoides*
Pearlwort	*Sagina spp.*
Pigweeds	
Palmer Amaranth	*Amaranthus palmeri*
Prostrate	*Amaranthus blitoides*
Redroot	*Amaranthus retroflexus*
Smooth	*Amaranthus hybridus*
Spiny Amaranth	*Amaranthus spinosus*
Pineapple Weed	*Matricaria matricarioides*
Poorjoe	*Diodia teres*
Prickly Sida (Teaweed)	*Sida spinosa*
Puncturevine	*Tribulus terrestris*
Ragweeds	
Common	*Ambrosia artemisiifolia*
Giant	*Ambrosia trifida*
Redvine	*Brunnichia ovata*
Showy Crotalaria	*Crotalaria spectabilis*
Sicklepod	*Cassia obtusifolia*
Pennsylvania	
Smartweed	*Polygonum pennsylvanium*
Swamp	*Polygonum coccineum*
Smell Melon	*Cucumis melo*
Spurge	
Prostrate	*Euphorbia humistrata*
Spotted	*Euphorbia maculata*
Toothed	*Euphorbia serrata*
Spurred Anoda	*Anoda cristata*
Sowthistle	*Sonchus spp.*
Sunflower	
Common	*Helianthus annuus*
Wild	*Helianthus spp.*
Waterhemp	
Common	*Amaranthus rudis*
Tall	*Amaranthus tuberculatos*
Trumpetcreeper	*Campsis radicans*
Velvetleaf	*Abutilon theophrasti*
Venice Mallow	*Hibiscus trionum*
Wild Mustard	*Sinapis arvensis*
Wild Oats	*Avena fatua*
Wild Poinsettia	*Euphorbia heterophylla*
Willow	*Salix spp.*
Wirestem Muhly	*Muhlenbergia frondosa*
Witchweed	*Striga asiatica*
Yellow Nutsedge	*Cyperus esculentus*
Yellow Woodsorrel	*Oxalis stricta*

STORAGE AND DISPOSAL

PROHIBITIONS

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

STORAGE

Store in cool, dry place.
Keep pesticide in original container.
Do not put concentrate or dilute into food or drink containers.
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 1-800-892-0099.

PESTICIDE DISPOSAL

This product is acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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.

BASAGRAN® — Reg. TM of BASF AG.
CLASSIC® — Reg. TM of E.I. duPont de Nemours & Co., Inc. for chlorimuron ethyl herbicide.
DUAL® — Reg. TM of Novartis for metolachlor herbicide.
FIRSTRATE® — Reg. TM of Dow AgroSciences LLC
LASSO® — Reg. TM of Monsanto Agri. Co. for alachlor herbicide.
PURSUIT® — Reg. TM of American Cyanamid Co. for imazethapyr herbicide.
RAPTOR® — Reg. TM of American Cyanamid Co. for imazamox herbicide.
RELIANCE® STS™ — Reg. TM and TM of E.I. duPont de Nemours & Co., Inc.
ROUNDUP READY® — Reg.TM of Monsanto Company
ROUNDUP ULTRAMAX® — Reg. TM of Monsanto Company
SCEPTER® — Reg. TM of American Cyanamid Co. for imazaquin herbicide.
SELECT® — Reg. TM of Valent U.S.A. Corporation for clethodim herbicide.
SYNCHRONY® STS™ — Reg. TM and TM of E.I. duPont de Nemours & Co., Inc.

Manufactured for:
Valent U.S.A. Corporation
P.O. Box 8025
Walnut Creek CA 94596-8025

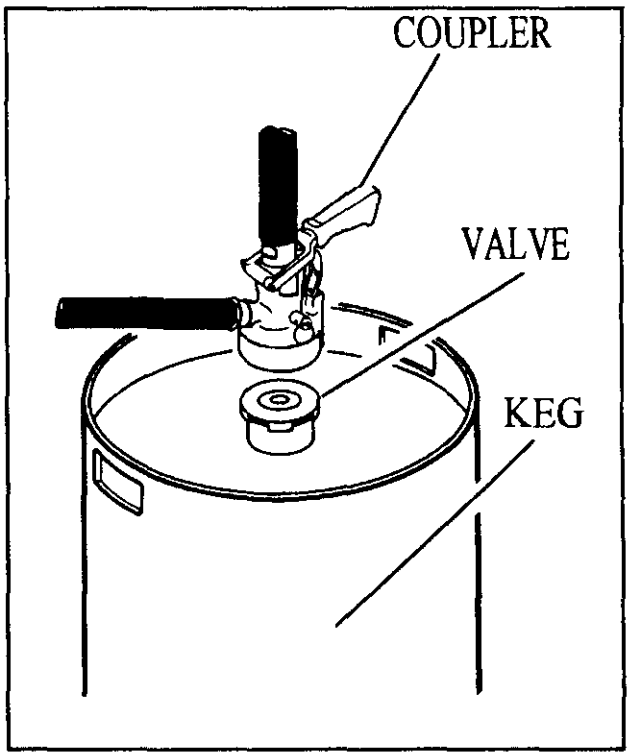
Made in U.S.A.

~~Form 091004-V-10086b.PND~~

EPA Reg. No. 59639-XX
EPA Est. No. 5905-GA-1; 58996-MO-01; 407-IA-02

THE VALENT RETURNABLE KEG

Description: This keg is a closed-system, refillable container designed for easy handling and convenient dispensing of product with no container disposal.
Construction: The keg is made of all stainless steel. Both the gaskets and seals are Viton and are compatible with the Valent product.
Pump System: With the versatility of the keg, either a mechanical pump or an air pressure system may be used to dispense the product.
Coupler: A specific dry-disconnect coupler is required for dispensing product from the keg. This coupler is available through local agricultural equipment suppliers.
Container Capacity: 15 gallons or 56.7 liters (by weight)



ATTENTION!

This is a closed-system container. Do not try to remove the valve from the keg. The coupler required for removal of product is available from local agricultural equipment suppliers. The keg contains tamper evident seals that, if broken, will incur a fee for the user of the keg. Both the coupler and the valve are designed for one-way operation only. Never try to pump any type of material back into the keg.

DIRECTIONS FOR USE

The proper coupler must be attached and engaged before removing any product from the keg. Either a mechanical pump or an air pressure system may be used and connected to the 1-inch NPT thread on the top of the coupler.

IMPORTANT! Attach a hose or pump to the coupler before engaging coupler. This will prevent the user from being splashed in the event that pressure build-up in the keg forces liquid up through the coupler.

To attach and engage the coupler:

1. Pull top of black dust cover back to expose head of valve. The bottom ring of the black dust cover will still be attached to the neck of the valve. Save the dust cover for reuse when returning keg.
2. Before engaging the coupler, securely attach a hose or pump to the threaded connection.
3. Twist coupler onto valve on keg.
4. Secure and engage coupler by pulling handle straight out to unlock and then pushing handle down into lower position to open internal valve. Handle will automatically lock in place.
5. You are now ready to begin the pumping operation.

To remove coupler from container:

1. Release coupler by pulling handle straight out to unlock and then lifting handle into upper position. Handle will automatically lock in place.
2. Lift coupler from keg. As coupler clears top of valve, pull coupler sideways and lift it off the valve.
3. Wipe valve off and replace dust cover.
4. Flush coupler with water.
5. Wipe coupler and store in a clean place.
6. Properly dispose of cleaning towels and rinsate.

RETURNING KEGS

Clean the outside of the keg with water or soap before returning the keg to the distributor. Leave all Valent product labels and stickers securely attached. All Valent product labels, stickers and other information must remain on the keg in order to comply with both State and Federal regulations.

All Valent kegs are tracked using the individual keg serial number stamped in the top of the keg. Distributors are responsible for these kegs that have been assigned to them. Return this keg to the distributor from which it was purchased. Notify the distributor if the keg cannot be returned by the specific time.

Supplemental Label

29/29

Valent U.S.A. Corporation
1333 N. California Blvd., Ste. 600
Walnut Creek, CA 94596-8025

PREEMERGENCE APPLICATION OF V-10086 HERBICIDE IN SNAP BEANS IN OREGON AND TENNESSEE

EPA Reg. No.: 59639-XX

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 through any type of irrigation system.

GENERAL INFORMATION

V-10086 Herbicide may be utilized as a preemergence soil applied herbicide for control of the annual broadleaf weeds listed below in snap beans. Make a single preemergence application of V-10086 Herbicide at the rates shown below depending on soil texture. Use the higher V-10086 Herbicide rate on clay loam and finer soil texture and the lower rate on silt loams and coarser textured soils. Apply V-10086 Herbicide after planting, but no later than 48 hours following planting. Make one (1) application per season.

V-10086 HERBICIDE PREEMERGENCE CONTROL FOR SNAP BEANS

PREEMERGENCE APPLICATION RATES FOR V-10086 HERBICIDE IN SNAP BEANS

State	Product Rate	Weeds Controlled
Oregon	12 to 14 fl. oz./A (0.19 to 0.22 lb. a.i./A)	Hairy Nightshade (*Solanum sarrachoides*) Black Nightshade (*Solanum nigrum*) Redroot Pigweed (*Amaranthus retroflexus*)
Tennessee	10 to 16 fl. oz./A (0.16 to 0.25 lb. a.i./A)	Hairy Nightshade (*Solanum sarrachoides*) Black Nightshade (*Solanum nigrum*) Redroot Pigweed (*Amaranthus retroflexus*)

Use Restrictions for V-10086 Herbicide Applied Preemergence to Snap Beans:

1. Always read and follow all label directions when using any pesticide alone or sequentially. **The most restrictive labeling applies when using a tank mix.**
2. Applications of V-10086 Herbicide at ground cracking or later will result in injury (necrosis) to snap beans and may result in a yield reduction and should, therefore, be avoided. **Apply no later than 48 hours after planting.**
3. Do not apply V-10086 Herbicide preemergent to snap beans planted in soils with high sand content, specifically sandy loams, loamy sands and gravely sandy loams.
4. Incorporate V-10086 Herbicide with 1/4 to 1/2 inch of water following application before soil cracking occurs.
5. V-10086 Herbicide should not be soil incorporated with mechanical incorporation equipment.
6. Do not harvest snap beans sooner than 55 days after application of V-10086 Herbicide.
7. For preemergence control of grasses, tank mix V-10086 Herbicide with appropriate grass herbicide.

~~**Groundwater Advisory**~~

~~This chemical (lactofen) has properties and characteristics associated with chemicals detected in groundwater. Acifluorfen, a degradate of this chemical, is known to leach through soil into groundwater under certain conditions as a result of labeled use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.~~

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION. PLEASE REFER TO CONTAINER LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.