59639-118 (9/23/2014 (1/30

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Joseph Powell
Valent USA Corp.
1600 Riviera Ave., Suite 200
Walnut Creek, CA 94596

SEP 23 2014

Subject: Amendment adding a supplemental label for Snap beans into the Master label.
Product name: V-10086 Herbicide
EPA Reg. No: 59639-118
Application Dated: July 18, 2014

Dear Mr. Powell,

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

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3. (emphasis added)

If you have any questions, please contact Grant Rowland at 703-347-0254 or at Rowland.Grant@epa.gov.

Sincerely,

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

VALENT®

GROUP	14	HERBICIDE

V-10086 Herbicide

Active Ingredient	By Wt.
*Lactofen	24%
Other Ingredients	76%
Total	100%

*2-ethoxy-1-methyl-2-oxoethyl 5-[2-chloro-4-(trifluoromethyl)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

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

NET WEIGHT 1 GALLON
2 ½ GALLONS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

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

This product may pose an aspiration pneumonia hazard. Contains petroleum distillate.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical resistant gloves (such as nitrile, butyl, barrier laminate, and/or viton ≥ 14 mils), 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.
- 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.

4/30

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: long-sleeved shirt and long pants, chemical resistant gloves (such as nitrile, butyl, barrier laminate, and/or viton ≥ 14 mils), shoes and socks.

5/30

**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 TO THE FULLEST EXTENT ALLOWED BY LAW, 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. To the extent consistent with applicable law AND 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
To the fullest extent allowed by law, Valent or Seller is not 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. TO THE FULLEST EXTENT ALLOWED BY LAW, 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
To the extent consistent with applicable law allowing such requirements, Valent must be provided prompt 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.

To the extent consistent with applicable law, 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, to the extent allowed by applicable law.

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

6/30

RESISTANCE MANAGEMENT

V-10086 Herbicide is a Group 14 herbicide (PPO inhibitor). Any weed population may contain or develop plants naturally resistant to herbicides in various mode of action classes. Resistant biotypes, such as waterhemp, 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.

TO DELAY HERBICIDE RESISTANCE

- Avoid the use of herbicides that have a similar target site mode of action in consecutive years. Other Group 14 herbicides (PPO inhibitors) include acifluorfen (Ultra Blazer®) and fomesafen (Flexstar®, Reflex®). If resistant weed biotypes such as waterhemp are suspected or known to be present, use a tank mix partner with V-10086 Herbicide to help control these biotypes, or use a planned herbicide rotation program where other residual broadleaf herbicides having different modes of action are used.
- Herbicide use should be based on an 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 USA Corporation at the following toll free number 1-800-682-5368

7/30

TABLE OF CONTENTS

8/30

DIRECTIONS FOR USE IN SOYBEANS

PRODUCT 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.

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 first 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 non-ionic surfactant adjuvant containing a minimum of 80% surfactant is usually required. Refer to the label section on ADJUVANTS AND ADDITIVES for specific recommendations.

When V-10086 is applied postemergence, 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 2 hours after application.

RESTRICTIONS

- 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.
- 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.

PRECAUTIONS

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.

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 weeds are under conditions that do not promote active growth. These conditions include drought, excessive water, extremes in temperature, and low humidity.

Applying V-10086 under conditions that do not promote active weed growth will reduce herbicide effectiveness. 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.

9/30

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 10 to 14 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, 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. V-10086 is a contact herbicide. Therefore, 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 at 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. 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, 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. Higher volume applications generally afford more consistent weed control.

Nozzle and Nozzle Orientation: Use nozzles which produce flat or hollow cone spray patterns. Use nondrip 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 non-ionic surfactant (NIS) adjuvant at the use rate of 0.125 to 0.25 % v/v. When weeds reach the maximum growth stage or as stress conditions increase, the addition of NIS should be added at the rate of 0.25% v/v. Crop oil concentrate(COC) is recommended when weeds are stressed due to hot and dry conditions. Under those conditions COC at 1 pt./A can be added. In place of COC alone the following combination can be added; COC at 0.125 to 0.5% v/v in combination with NIS at 0.125 to 0.25% v/v. The addition of any adjuvant other than NIS to V-10086 Herbicide will result in a significant increase in soybean crop response. Soybeans quickly outgrow all initial herbicide effects.
Air	Add NIS at 0.50% v/v per acre.
Tank Mix Recommendations: Adjuvant recommendations are listed individually for specific tank mix use directions.	

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 the recommended adjuvants (s) 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 measuring the weed height in inches.

Use Table 2S of this label to determine the recommended growth stage before you apply V-10086 for effective weed control of the species desired.

11/30

WEEDS CONTROLLED BY V-10086 HERBICIDE

PRODUCT 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 2S. V-10086 Herbicide - Soybean Rates and Weed Heights

Broadleaf Weeds Controlled	8.0 fl. oz. /Acre Weed Heights (inches)	10.0 fl. oz/Acre Weed Heights (inches)	12.5 fl. oz. /Acre Weed Heights (inches)	12.5 fl. oz. /Acre Weed Heights (inches)
Balloonvine	--	--	--	4
Beggarticks	--	--	--	6
Bristly Starbur	--	--	--	4
Buffalobur	--	--	--	4
Burcucumber	--	--	--	4
Carpetweed	6 in. diameter	6 in. diameter	8 in. diameter	8 in. diameter
Common Cocklebur	--	--	2	4
Common Purslane	6 in. diameter	6 in. diameter	8 in. diameter	8 in. diameter
Copperleaf				
Hophornbeam	--	--	2	4
Virginia	--	--	2	4
Croton				
Tropic	--	--	4	4
Woolly	--	--	4	4
Devilsclaw	--	--	--	4
Eclipta	--	--	2	2
Florida Beggarweed	--	--	--	2
Florida Pusley	--	--	--	6
Groundcherry				
Cutleaf	--	--	2	3
Lanceleaf	--	--	2	3
Hairy Galinsoga	--	--	--	2
Hemp Sesbania	2	4	6	6
Jimsonweed	2	2	4	4
Kochia	--	--	--	2
Lanceleaf Sage	--	--	--	2
Mexicanweed	--	--	--	4
Morninglories				
Cypressvine	--	--	--	4
Entireleaf	--	--	--	2
Ivyleaf	--	--	--	2
Palmleaf	--	--	--	4
Pitted	--	--	--	4
Purple Moonflower	--	--	--	4
Smallflower	--	--	--	4
Tall	--	--	--	4
Nightshades				
Black	2	3	3	4
Eastern Black	2	2	3	4
Hairy	--	--	2	4
Pigweeds				
Palmer Amaranth*	--	--	2	3
Prostrate	--	--	4	5
Redroot	3	4	4	5
Smooth	3	4	4	5
Spiny Amaranth	--	--	4	4
Poorjoe	--	--	6	6

12/30

Table 2S. V-10086 Herbicide - Soybean Rates and Weed Heights

Broadleaf Weeds Controlled	8.0 fl. oz. /Acre Weed Heights (inches)	10.0 fl. oz/Acre Weed Heights (inches)	12.5 fl. oz. /Acre Weed Heights (inches)	12.5 fl. oz. /Acre Weed Heights (inches)
Prickly Sida (Teaweed)	--	--	2	2
Punturevine	--	--	--	1.5 in. diameter
Ragweed				
Common	4	5	6	6
Giant	3	4	4	4
Showy Crotolaria	--	--	--	4
Smell Melon	--	--	--	6
Spurge				
Prostrate			1 in. diameter	1 in. diameter
Spotted	--	--	4	4
Toothed	--	--	4	4
Venice Mallow	--	2	2	4
Waterhemp**				
Common	4	5	6	6
Tall	4	5	6	6
Wild Mustard	2	2	4	4
Wild Poinsettia	--	--	--	4
Wild Sunflower	--	--	--	2
Witchweed	--	--	--	6 to 8 in. prior to bloom
Adjuvants and Rates* **	Nonionic Surfactant (1-2 pts./100 gals.)	Nonionic Surfactant (1-2 pts./100 gals.)	Nonionic Surfactant (1-2 pts./100 gals.)	Crop Oil Concentrate (1 pt./A)

*When Palmer Amaranth pressure is severe, a preemergence program with activity on Palmer Amaranth, such as Valor Herbicide, is recommended. Applications of V-10086 Herbicide should be made 14 days after planting to less than 2 inch Palmer Amaranth. A second application of V-10086 Herbicide is required 14 to 21 days after the initial application if regrowth occurs.

**When Waterhemp pressure is severe, a preemergence herbicide with activity on Waterhemp species, such as Valor Herbicide, is recommended followed by V-10086 Herbicide to control escaped weeds is a Valent recommended program.

***Crop oil concentrate is recommended when weeds are stressed due to hot and dry conditions. Under those conditions COC at 1 pt./A can be added. In place of COC alone the following combination can be added; COC at 0.125 to 0.5% v/v in combination with NIS at 0.125 to 0.25% v/v.

BROADLEAF HERBICIDE TANK MIXES WITH V-10086 HERBICIDE

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.**

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 non-ionic surfactant, or crop oil concentrate, and the remaining water. Maintain agitation during filling and spraying to ensure a uniform spray mixture.

Table 3S INDIVIDUAL TANK MIX RECOMMENDATIONS AND WEEDS CONTROLLED
(Refer to Individual Product Labels for Specific Weeds controlled and recommended weed sizes at application)

Products	Rates /Acre	Specific Use Directions
V-10086 + FirstRate®	8 - 12.5 fl. oz. + 0.3 oz.	**Key Weeds Controlled**: Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed, Velvetleaf, Pigweed, Sunflower, Annual Morninglories, Jimsonweed, Smartweed and Venice Mallow **Adjuvant Recommendations**: Add NIS at the rate of 0.125 to 0.25 % v/v.
For broadleaf weed control and annual grass control, V-10086 Herbicide + FirstRate can be tank mixed with Select 2 EC Herbicide. The minimum use rate for Select 2 EC Herbicide is 8 fl. oz./A The adjuvant recommendation for this 3-way mixture is NIS at 0.125 - 0.25 % v/v. NOTE: AMS* at 2 lbs./A may be added to this 3-way mixture to aid in control of difficult to control grass species such as vol. corn, yellow foxtail and woolly cupgrass.		
V-10086 + Classic®	8 - 12.5 fl. oz. + 0.5 - 0.66 oz.	**Key Weeds Controlled**: Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed, Pigweed, Sunflower, Annual Morninglories, Jimsonweed and Yellow Nutsedge **Adjuvant Recommendations**: Add NIS at the rate of 0.125 to 0.25 % v/v.
For broadleaf weed control and annual grass control, V-10086 Herbicide + Classic can be tank mixed with Select 2 EC Herbicide. The minimum use rate for Select 2 EC Herbicide is 10 fl. oz./A The adjuvant recommendation for this 3-way mixture is NIS at 0.125 - 0.25 % v/v. NOTE: AMS* at 2 lbs/A may be added to this 3-way mixture to aid in control of difficult to control grass species such as vol. corn, yellow foxtail and woolly cupgrass.		
V-10086 + Resource® Herbicide	8 - 12.5 fl. oz. + 4 - 8 fl. oz.	**Key Weeds Controlled:** Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed, Pigweed and Velvetleaf. **Adjuvant Recommendations:** Add NIS at the rate of 0.125 - 0.25 % v/v.
For broadleaf weed control and annual grass control, V-10086 Herbicide + Resource Herbicide can be tank mixed with Select 2 EC Herbicide. The minimum use rate for Select 2 EC Herbicide is 8 fl. oz./A. The adjuvant recommendation for this 3-way mixture is NIS at 0.125 - 0.25 % v/v. NOTE: AMS* at 2 lbs./A maybe added to this 3-way mixture to aid in control of difficult to control grass species such as vol. corn, yellow foxtail and woolly cupgrass.		
V-10086 + Synchrony® STS™	8-12.5 fl. oz. + 0.5 oz.	**Key Weeds Controlled**: Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed, Velvetleaf, Pigweed, Lambsquarters, Jimsonweed, Sunflower,

Table 3S INDIVIDUAL TANK MIX RECOMMENDATIONS AND WEEDS CONTROLLED
(Refer to Individual Product Labels for Specific Weeds controlled and recommended weed sizes at application)

Products	Rates /Acre	Specific Use Directions
	NOTE: For use on STS soybeans only	Smartweed, Annual Morningglories and Yellow Nutsedge **Adjuvant Recommendations:** Add NIS at the rate of 0.125 to 0.25 % v/v.
For broadleaf weed control and annual grass control, V-10086 Herbicide+ Synchrony STS can be tank mixed with Select 2 EC Herbicide. The minimum use rate for Select 2 EC Herbicide is 8 fl. oz./A. The adjuvant recommendation for this 3-way mixture is NIS at 0.125 - 0.25 % v/v. NOTE: AMS* at 2 lbs./A maybe added to this 3-way mixture to aid in control of difficult to control grass species such as vol. corn, yellow foxtail and woolly cupgrass.		
V-10086 + Synchrony STS	8 - 12.5 fl. oz. + 0.25 oz.	**Key Weeds Controlled:** Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed, Velvetleaf, Pigweed, Lambsquarters, Jimsonweed, Sunflower, and Smartweed **Adjuvant Recommendations:** Add NIS at the rate of 0.125 to 0.25 % v/v.
For broadleaf weed control and annual grass control, V-10086 Herbicide + Synchrony STS can be tank mixed with Select 2 EC Herbicide. The minimum use rate for Select 2 EC Herbicide is 8 fl. oz./A. The adjuvant recommendation for this 3-way mixture is NIS at 0.125 - 0.25 % v/v. NOTE: AMS* at 2 lbs./A maybe added to this 3-way mixture to aid in control of difficult to control grass species such as vol. corn, yellow foxtail and woolly cupgrass.		
V-10086 + Raptor®	8 - 12.5 fl. oz. + 4 - 5 fl. oz.	**Key Weeds Controlled:** Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed, Velvetleaf, Pigweed, Lambsquarter, Jimsonweed, Sunflower and Smartweed **Adjuvant Recommendations**: Add NIS at the rate of 0.25 % v/v.
For broadleaf weed control and annual grass control, V-10086 Herbicide + Raptor can be tank mixed with Select 2 EC Herbicide. The minimum use rate for Select 2 EC Herbicide is 8 fl. oz./A. The adjuvant recommendation for this 3-way mixture is NIS at 0.25 % v/v. NOTE: AMS* at 2 lbs./A maybe added to this 3-way mixture to aid in control of difficult to control grass species yellow foxtail and woolly cupgrass.		
V-10086 + Select 2 EC Herbicide	8 - 12.5 fl. oz. + 6 - 8 fl. oz	**Key Weeds Controlled:** Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed, Pigweed, Jimsonweed and annual grasses claimed on the Select 2 EC Herbicide label. **Adjuvant Recommendations:** Add NIS at the rate of 0.125 - 0.25% v/v.
NOTE: AMS at 2 lbs./A maybe added to this 2-way mixture to aid in control of difficult to control grass species such as vol. corn, yellow foxtail and woolly cupgrass.		
V-10086 + 2,4-DB	12.5 fl. oz. + 1 fl. oz.	**Key Weeds Controlled or Suppressed:** Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed and Annual Morningglories **Adjuvant Recommendations:** Add NIS at the rate of 0.125 % v/v.
NOTE: Apply only to soybeans with greater than or equal to 4 trifoliates		
V-10086 +	8 - 12.5 fl. oz. +	**Key Weeds Controlled:** Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed, Velvetleaf, Pigweed,

Table 3S INDIVIDUAL TANK MIX RECOMMENDATIONS AND WEEDS CONTROLLED
(Refer to Individual Product Labels for Specific Weeds controlled and recommended weed sizes at application)

Products	Rates /Acre	Specific Use Directions
Pursuit® DG	1.08 - 1.44 oz.	Jimsonweed, Sunflower and Smartweed **Adjuvant Recommendations**: Add NIS at the rate of 0.25 % v/v.
For broadleaf weed control and annual grass control, V-10086 Herbicide + Pursuit can be tank mixed with Select 2 EC Herbicide. The minimum use rate for Select 2 EC Herbicide is 8 fl. oz./A The adjuvant recommendation for this 3-way mixture is NIS at 0.25 % v/v. **NOTE: AMS* at 2 lbs./A may be added to this 3-way mixture to aid in control of difficult to control grass species such as vol. corn, yellow foxtail and woolly cupgrass.**		
V-10086 + Sceptor® DG	8 - 12.5 fl. oz. + 1.44 oz.	**Key Weeds Controlled**: Waterhemp, Black Nightshade, Cocklebur, Common Ragweed, Giant Ragweed, Pigweed, Sunflower **Adjuvant Recommendations**: Add NIS at the rate of 0.25 % v/v.
NOTE: Do not add Select 2 EC Herbicide to this tankmix.		
V-10086 + Harmony® GT	8 - 12.5 fl. oz. + $^{1}/_{24}$ oz.	**Key Weeds Controlled**: Waterhemp, Black Nightshade, Common Ragweed, Giant Ragweed, Lambsquarters **Adjuvant Recommendations**: Add NIS at the rate of 0.125 % v/v.
NOTE: Apply only to soybeans with greater than or equal to 2 trifoliates. **For broadleaf weed control and annual grass control, V-10086 Herbicide + Harmony GT can be tank mixed with Select 2 EC Herbicide. The minimum use rate for Select 2 EC Herbicide is 8 fl. oz./A The adjuvant recommendation for this 3-way mixture is NIS at 0.125 % v/v.** **NOTE: AMS* at 2 lbs./A may be added to this 3-way mixture to aid in control of difficult to control grass species such as vol. corn, yellow foxtail and woolly cupgrass.**		
V-10086 + Basagran®	8-12.5 fl.oz. + 1-2 pt.	**Key Weeds Controlled**: Waterhemp, Black Nightshade, Common Ragweed, Giant Ragweed, Lambsquarters **Adjuvant Recommendations**: Add NIS at the rate of 0.125 % v/v.
For broadleaf weed control and annual grass control, V-10086 Herbicide + Basagran can be tank mixed with Select 2 EC Herbicide. The minimum use rate for Select 2 EC Herbicide is 10 fl. oz./A The adjuvant recommendation for this 3-way mixture is NIS at 0.125 - 0.25 % v/v. **NOTE: the addition of AMS at 2 lbs./A may be added to this 3-way mixture to aid in control of difficult to control grass species such as vol. corn, yellow foxtail and woolly cupgrass.**		

*The addition of AMS to the above mentioned tank mixtures may result in additional crop injury.

ROUNDUP READY® SOYBEAN TANK MIXES

V-10086 + Roundup Ultramax™	6-8 fl.oz. + 0.75-1.5 lb.	**Key Weeds Controlled:** Waterhemp, Black Nightshade, Common Ragweed, Giant Ragweed, Pigweed, Annual Morninglories as well as numerous other broadleaf weeds and grasses controlled by Roundup Ultramax. **Adjuvant Recommendations:** AMS at the rate of 2.5-4.0 lbs./A is required. Refer to the Roundup Ultramax label for additional information.
V-10086 at the above rates and adjuvant recommendations is also labeled for tank mixing with other glyphosate products; including Roundup®, Roundup Ultra®, Touchdown® and Glyphomax. Refer to these product labels for specific use rates and weeds claimed. A temporary crop response should be expected following a postemergence application of V-10086 Herbicide when tank mixed with glyphosate products. Soybean leaves which are open at the time of application will show some burn, bronzing and speckling.		

Table 4S WHITE MOLD* SUPPRESSION BY V-10086 HERBICIDE SOYBEAN GROWTH STAGE 6 - 12.5 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.	Non-Ionic Surfactant 0.125% v/v

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

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).

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

Table 5S WEEDS SUPPRESSED BY V-10086 HERBICIDE WEED HEIGHT (INCHES) 12.5 FL. OZ. PER ACRE

Common Name	MaximumWeed Height
Coffee Senna*	2 - 6
Common Cocklebur	5 - 10
Kochia	2 - 6
Morningglories	
Cypressvine	5 - 8
Entireleaf*	3 - 6
Ivyleaf*	3 - 6
Palmleaf*	5 - 8
Pitted*	5 - 8
Purple Moonflower*	5 - 8
Smallflower*	5 - 8
Tall	5 - 8
Pennsylvania Smartweed	4 - 8
Pigweeds	
Palmer Amaranth	8 - 10
Prostrate	8 - 10
Redroot	8 - 10
Smooth	8 - 10
Sicklepod*	2 - 4
Spurred Anoda	2 - 6
Velvetleaf	4 - 8
Waterhemp	
Common	8 - 10
Tall	8 - 10
Wild Sunflower	3 - 6

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

The addition of crop oil concentrate at 1.0 pt./A is required for suppression of these weeds. Cultivation 7 to 10 days after treatment will usually aid in obtaining satisfactory suppression of these weeds.

17/30

Table 6S PERENNIAL WEEDS SUPPRESSED BY V-10086 HERBICIDE WEED HEIGHT (INCHES) 12.5 FL. OZ. PER ACRE

Common Name	Maximum Weed Height
Canada Thistle	6
Milkweeds	
Climbing	6(Vine Length)
Common	6(Vine Length)
Morningglory	
Bigroot (Wild Sweet Potato)	6(Vine Length)
Redvine	6(Vine Length)
Swamp Smartweed	6
Trumpetcreeper	6(Vine Length)

The addition of crop oil concentrate at 1.0 pt./A is required to burn back existing above-ground vegetation and may retard the growth of new foliage.

Table 7S TALL WEEDS SUPPRESSED BY V-10086 HERBICIDE WEED HEIGHT (INCHES) 12.5 FL. OZ. PER ACRE

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

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

The addition of crop oil concentrate at 1.0 pt./A is required for suppression of these weeds.

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

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

PRODUCT 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. ai) of V-10086 Herbicide preemergence per acre per season.

Table 8S 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 - 15 fl. oz./A	Black Nightshade	None
		Pigweed Smooth Redroot	
V-10086	15 - 19 fl. oz./A	Copperleaf	None
		Jimsonweed	
		Common Lambsquarter	
		Common Ragweed	
		Prickly Sida (Teaweed)	
		Tall Waterhemp	
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	Refer to Table 1S
		Postemergence Control of	
		Escaped Weeds.	
V-10086	8 - 12.5 fl. oz./A	Refer to Table 3S	See Tables 1S
		when tank mixing with other broadleaf herbicides.	

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 an 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 2 hours 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.

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. ai) per acre, and not later than 90 days before harvest.

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

DIRECTIONS FOR USE

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

PRODUCT INFORMATION

V-10086 Herbicide may be utilized as a preemergence soil applied herbicide for control of the annual broadleaf weeds listed in the table below. 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 RATES	WEEDS CONTROLLED
Oregon	12 to 14 fl oz/A (0.19 to 0.22 lb ai/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 ai/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.
8. Do not apply to Lima Beans.

DIRECTIONS FOR OUTDOOR USE IN CONIFER SEEDLINGS AND CONIFER NURSERIES

PRODUCT 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	**Scientific Name**
Eastern	*Tsuga canadensis*
Western	*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	**Scientific Name**
Blue	*Picea pungens*
Dwarf Alberta	*Picea glauca conica*
Norway	*Picea abies*
Sitka	*Picea sitchensis*

PREEMERGENT APPLICATIONS TO CONIFER SEEDLINGS

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 - 16 fl. oz./A (0.125 - 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 TO CONIFER SEEDLINGS

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 - 16 fl. oz./A* 0.10 - 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

PRODUCT INFORMATION

V-10086 Herbicide is a broad-spectrum 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 2 hours before rainfall without reducing weed control.

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 0.50 – 1.0% v/v non-ionic surfactant	Refer to Table 2S.	Reduce broadcast rate in proportion (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	*Acanthospernum 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 Virginia	 *Acalypha ostryifolia* *Acalypha virginica*
Cottonwood	*Populus spp.*
Croton Tropic Woolly	 *Croton glandulosus* *Croton capitatus*
Dayflower	*Commelina spp.*
Devilsclaw	*Proboscidea louisianica*
Dogfennel	*Eupatorium capillifolium*
Eclipta	*Eclipta prostrata*
Florida Beggarweed	*Desmodium tortuosum*
Florida Pusley	*Richardia scabra*
Groundcherry Cutleaf Lanceleaf	 *Physalis angulata* *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 Common	 *Sarcostemma cynanchoides* *Asclepias syriaca*
Morningglories Bigroot (Wild Sweet Potato) Cypressvine Entireleaf Ivyleaf Palmleaf Pitted Purple Moonflower Smallflower Tall	 *Ipomoea pandurata* *Ipomoea quamoclit* *Ipomoea hederacea var. integriuscula* *Ipomoea hederacea* *Ipomoea wrightii* *Ipomoea lacunosa* *Ipomoea turbinata* *Jacquemontia tamnifolia* *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 Poinsettia	*Euphorbia heterophylla*
Willow	*Salix spp.*
Wirestem Muhly	*Muhlenbergia frondosa*
Witchweed	*Striga asiatica*
Yellow Nutsedge	*Cyperus esculentus*
Yellow Woodsorrel	*Oxalis stricta*

STORAGE AND DISPOSAL

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

Nonrefillable container. Do not reuse container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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.

Manufactured for:
Valent U.S.A. Corporation
P.O. Box 8025
Walnut Creek CA 94596-8025
www.valent.com
Made in U.S.A.
EPA Reg. No. 59639-118
EPA Est. No. 5905-GA-1; 58996-MO-01; 407-IA-02

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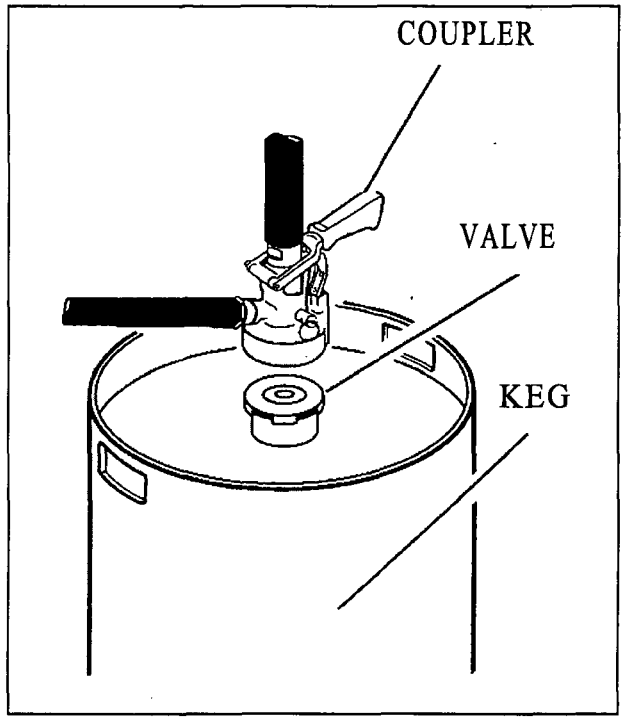
THE VALENT RETURNABLE KEG

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.