

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

November 7, 2022

Robert L. Hamilton Sr. Regulatory Manager Registration and Regulatory Affairs Valent U.S.A. LLC 4600 Norris Canyon Rd. San Ramon, CA 94583

Subject: PRIA Label Amendment – Add New Outdoor Ornamental Uses

Product Name: V-10452 3.04 SC Herbicide EPA Registration Number: 59639-237 Application Date: April 15, 2021

Decision Number: 573386

Dear Dr. Hamilton:

The application referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable under FIFRA section 3(c)(5).

You must submit and/or cite all data required for registration/registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

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.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims

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substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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

If you have any questions, please contact Ernest Kraka at (202)-566-2811 or at kraka.ernest@epa.gov.

Sincerely,

Shaja B. Joyner, Product Manager 20

Fungicide-Herbicide Branch Registration Division 7505P

Enclosure



FLUMIOXAZIN	GROUP	14	HERBICIDE
PYROXASULFONE	GROUP	15	HERBICIDE

[MASTER LABEL]

[Bracketed text is optional]
[Bracketed Italicized text is information for the reviewer]

V-10452 3.04 SC Herbicide

FOR RESIDUAL CONTROL AND/OR SUPPRESSION OF LISTED WEEDS IN COTTON, FIELD CORN, GRASS GROWN FOR SEED, SOYBEAN, WHEAT, FALLOW LAND AND NON CROP AREAS

FOR CONTROL AND/OR SUPPRESSION OF LISTED WEEDS TO MAINTAIN BARE GROUND ON NON-CROP AREAS.

FOR USE IN CONTAINER AND FIELD GROWN CONIFERS AND DECIDUOUS TREES (INCLUDING CHRISTMAS TREES), AROUND ESTABLISHED WOODY ORNAMENTALS IN LANDSCAPES, AND TO MAINTAIN BARE GROUND IN NURSERIES AND LANDCAPES.

Active Ingredient	By Wt
Flumioxazin*	14.04%
Pyroxasulfone**	17.81%
Other Ingredients	68.15%
Total	100.00%

^{*}N-[7-fluoro-3,4-dihydro-3-oxo-4-(prop-2-ynyl)-2*H*-1,4-benzoxazin-6-yl]cyclohex-1-ene-1,2-dicarboximide

V-10452 3.04 SC Herbicide is a suspension concentrate containing 1.34 lb flumioxazin and 1.70 lb pyroxasulfone per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT [PAGE][PANEL][BOOKLET] FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA Reg. No. 59639-237 EPA Est.

NET CONTENTS

[Always Mix Product Thoroughly Before Use] [Shake Well Before Using]

ACCEPTED 11/07/2022

^{**[5-(}difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1*H*-pyrazol-4-yl]methyl 4,5-dihydro-5,5-dimethylisoxazol-3-yl sulfone

[Sub Label 1]

V-10452 3.04 SC Herbicide

For residual control and/or suppression of listed weeds use in cotton, field corn, grass grown for seed, soybean, wheat, fallow land, and non-crop areas.



FLUMIOXAZIN	GROUP	14	HERBICIDE
PYROXASULFONE	GROUP	15	HERBICIDE

[Bracketed information is optional text] [Bracketed Italicized text is information for the reviewer]

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EPA Reg. No. 59	9639-237
EPA Est.	

NET	CONTENT	

[Always Mix Product Thoroughly Before Use] [Shake Well Before Using]

^{**[5-(}difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1*H*-pyrazol-4-yl]methyl 4,5-dihydro-5,5-dimethylisoxazol-3-yl sulfone

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. 	

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 800-892-0099 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt, long pants, shoes, socks and chemical-resistant gloves made of any waterproof material for example barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene \geq 14 mils, natural rubber \geq 14 mils, polyethylene, polyvinyl chloride or Viton \geq 14 mils.

User Safety Requirements

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

Engineering Controls

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

USER SAFETY RECOMMENDATIONS

- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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 product is toxic to non-target plants and aquatic invertebrates. **DO NOT** apply when weather conditions favor drift from treated areas. **DO NOT** contaminate water when disposing of equipment washwaters.

This pesticide is toxic to plants and must be used in strict accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

NON-TARGET ORGANISM ADVISORY

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

Groundwater Advisory: This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisories: DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** contaminate water when disposing of equipment wash waters or rinsate.

The product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams and springs will reduce potential loading of pyroxasulfone and its degradation product, 5-difluoromethoxy-1H-pyrazol-4-yl) methanesulfonic acid (M1), from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

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, including plants, soil or water is: coveralls, chemical-resistant gloves made of any waterproof material, for example barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene \geq 14 mils, natural rubber \geq 14 mils, polyethylene, polyvinyl chloride or Viton \geq 14 mils, shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift.

DO NOT enter or allow others to enter treated areas until sprays have dried.

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

IMPORTANT: Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, 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. 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. If the Buyer chooses not to accept 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.

The Directions for Use of this product must be followed carefully. 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. To the extent consistent with applicable law, 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 AND DISCLAIMER

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, 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. 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 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 later, 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 **Risks of Using This Product**, **Limited Warranty and Disclaimer**, 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. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Weed Resistance Management

For resistance management, please note that V-10452 3.04 SC Herbicide contains both a Group 14 /flumioxazin and a Group 15/pyroxasulfone herbicide. Any weed population may contain plants naturally resistant to Group 14 and/or Group 15 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of V-10452 3.04 SC Herbicide or other Group 14 and Group 15 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where
 information on resistance in target weed species is available, use the less resistanceprone partner at a rate that will control the target weed(s) equally as well as the more
 resistance-prone partner. Consult your local extension service or certified crop advisor if
 you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting
 and uses historical information related to herbicide use and crop rotation, and that
 considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding
 rates; precision fertilizer application method and timing to favor the crop and not the
 weeds), biological (weed-competitive crops or varieties) and other management
 practices.
- Fields should be scouted prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective. Fields should be scouted after application to verify that the treatment was effective. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method, for example hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management strategies for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Valent U.S.A. LLC at 800-6-VALENT (682-5368).

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PRODUCT INFORMATION

V-10452 3.04 SC Herbicide provides residual control of susceptible weeds in labeled crops and provides additional burndown activity when used as part of a burndown program. In addition, V-10452 3.04 SC Herbicide can be applied as part of a fall burndown program for control of susceptible winter annuals.

Weeds controlled by V-10452 3.04 SC Herbicide are listed in Table 2, *Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide*. [Application rates of V-10452 3.04 SC Herbicide vary depending on soil type and organic matter; refer to individual crop use instructions.]

Moisture is necessary to activate V-10452 3.04 SC Herbicide in soil for residual weed control. Dry weather following applications of V-10452 3.04 SC Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, V-10452 3.04 SC Herbicide will control susceptible germinating weeds. When adequate moisture is not received after soil applied treatments of V-10452 3.04 SC Herbicide application, weed control may be improved by shallow cultivation or irrigation with at least 1/2 inch of water. If weeds begin to emerge, irrigate (1/4 inch of water) or cultivate uniformly with shallow-tillage equipment including a rotary hoe that will not damage the crop. Deep cultivation reduces the effectiveness of V-10452 3.04 SC Herbicide.

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

Rainfastness

V-10452 3.04 SC Herbicide is rainfast one hour after application. **DO NOT** apply V-10452 3.04 SC Herbicide if rain is expected within one hour of application or postemergence efficacy may be reduced.

Soil Characteristics

Application of V-10452 3.04 SC Herbicide to soils with high organic matter and/or high clay content may require higher dosages than soils with low organic matter and/or low clay content. Application to cloddy seedbeds can result in reduced weed control.

Tank Mixes

Read tank mix product label for rates and weeds controlled. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Table 1. V-10452 3.04 SC Herbicide Rate Summary

fl oz of V-10452 3.04 SC Herbicide	Pounds of flumioxazin	Pounds of pyroxasulfone
3.0	0.032	0.040
4.0	0.042	0.053
6.0	0.064	0.080
7.5	0.079	0.100
9.0	0.094	0.120
12.0	0.128	0.160

USE RESTRICTION

DO NOT apply to frozen or snow covered soil.

USE PRECAUTION

 Any tillage operation after the application or mechanical incorporation into the soil will reduce residual weed control.

APPLICATION INFORMATION

BURNDOWN PROGRAM

Apply V-10452 3.04 SC Herbicide as part of a burndown program to actively growing weeds. Applying V-10452 3.04 SC Herbicide under conditions that do not promote active weed growth will reduce herbicide effectiveness. Weeds under stress due to drought, excessive water, extremes in temperature, disease or low humidity tend to become less susceptible to herbicidal action. V-10452 3.04 SC Herbicide is most effective when applied under warm sunny conditions. To ensure thorough coverage in burndown applications, use 15 to 60 gallons spray solution per acre. Use 20 to 60 gallons per acre if dense vegetation or heavy crop residue is present. **DO NOT** use flood jet nozzles.

GROUND APPLICATION

Preemergence Application (Conventional Tillage): To ensure uniform coverage, use 10 to 30 gallons of spray solution per acre for conventional tillage applications.

AERIAL APPLICATION

Spray drift away from the site of application may cause damage to non-target vegetation.

When used as part of a burndown weed control program, apply V-10452 3.04 SC Herbicide in 7 to 10 gallons of water per acre. Application at less than 7 gallons per acre may provide inadequate control. When used for preemergence weed control, apply V-10452 3.04 SC Herbicide in 5 to 10 gallons of water per acre. The higher gallonage applications afford more consistent weed control. **DO NOT** exceed the nozzle manufacturer's specified pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Adjuvants and Drift Control Additives

When an adjuvant is to be used with V-10452 3.04 SC Herbicide, use a Chemical Producers and Distributors Association certified adjuvant. Either a crop oil concentrate (COC) or methylated seed oil (MSO) which contains at least 15% emulsifiers and 80% oil or a non-ionic surfactant (NIS) at 0.25% v/v, may be used when applying V-10452 3.04 SC Herbicide as part of a burndown program. Some tank mix partners, including Roundup PowerMAX®, are formulated with sufficient adjuvants and do not require the addition of a crop oil concentrate, methylated seed oil or non-ionic surfactant when tank mixed with V-10452 3.04 SC Herbicide. When tank mixing, refer to tank mix partner's label for adjuvant selection. The addition of a crop oil concentrate or methylated seed oil may increase the burndown activity on certain weeds including cutleaf evening-primrose and Carolina geranium. Verify mixing compatibility qualities by a jar test.

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

When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND V-10452 3.04 SC HERBICIDE

When using V-10452 3.04 SC Herbicide and an adjuvant, including in stale seed bed or reduced tillage situations, perform a jar test before mixing commercial quantities of V-10452 3.04 SC Herbicide, when using V-10452 3.04 SC Herbicide for the first time, when using new adjuvants or when a new water source is being used.

- 1. Add 1 pt of the water to a quart jar. Use water from the same source and temperature as which will be used in the spray tank mixing operation.
- 2. Add 1 ml of V-10452 3.04 SC Herbicide to the quart jar for every 6 fl oz of V-10452 3.04 SC Herbicide per acre being applied (1 g if 6 fl oz/A is the desired V-10452 3.04 SC Herbicide rate), gently mix until product goes into suspension.
- 3. Add 60 ml (4 Tbsp or 2 fl oz) of the crop oil or methylated seed oil to the quart jar or 1 ml of non-ionic surfactant if it is being used in place of oil, gently mix.
- 4. If nitrogen is being used, add 16 ml (1 Tbsp or 0.5 oz) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 g AMS to the quart jar in place of the 28 to 32% nitrogen.
- 5. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
- 6. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed, question the choice of adjuvant:
 - a) Layer of oil or globules on the mixture's surface.
 - b) Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
 - c) Clabbering: thickening texture (coagulated) like gelatin.

SPRAYER PREPARATION

Before applying V-10452 3.04 SC Herbicide, start with clean, well maintained application equipment. The spray tank, as well as all hoses and booms, must be cleaned to ensure no residue from the previous spraying operation remains in the sprayer. Some pesticides, including but not limited to, the sulfonylurea and phenoxy herbicides, (i.e., Classic® and 2,4-D respectively) are active at very small amounts and can cause crop injury when applied to susceptible crops. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply V-10452 3.04 SC Herbicide. If two or more products were tank mixed prior to V-10452 3.04 SC Herbicide application, follow the most restrictive cleanup procedure.

MIXING INSTRUCTIONS

- 1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
- 2. If a drift retardant is to be used, add 10 lb of spray grade ammonium sulfate per 100 gallons of spray solution, unless prohibited by the tank mix partner.
- 3. While agitating, slowly add V-10452 3.04 SC Herbicide to the spray tank. Agitation creates a rippling or rolling action on the water surface.
- 4. If tank mixing V-10452 3.04 SC Herbicide with other labeled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
- 5. Add any required adjuvants.
- 6. Fill spray tank to desired level with water. Continue agitation until all spray solution has been applied.
- 7. Mix only the amount of spray solution that can be applied the day of mixing. Apply V-10452 3.04 SC Herbicide within 6 hours of mixing.

SPRAYER CLEANUP

Spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following V-10452 3.04 SC Herbicide application. After V-10452 3.04 SC Herbicide is applied, the following steps must be used to clean the spray equipment:

- 1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
- 2. Fill the spray tank with clean water and flush all hoses, booms, screens, and nozzles.
- 3. Top off tank, add 1 gallon of 3% household ammonia (or equivalent) for every 100 gallons of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, screens, and nozzles for a minimum of 15 minutes. If diaphragms are being used on the spray boom, loosen diaphragms before flushing the spray system, allowing cleaning solution to spray through the open diaphragm. If spray lines have any end caps, they must be loosened before flushing the system, allowing cleaning solution to spray though the loosened caps. To enhance removal of V-10452 3.04 SC Herbicide from the spray system, add a tank cleaner including "Valent Tank Cleaner", in place of ammonia and allow the cleaning solution to remain in the pressurized spray system (spray tank, hoses and boom) for 8 hours before flushing the system for a minimum of 15 minutes.
- 4. Drain tank completely.
- 5. Add enough clean water to the spray tank to allow all hoses, booms, screens, and nozzles to be flushed for 2 minutes.
- 6. Remove all nozzles and screens and rinse them in clean water.

Thoroughly clean spray equipment, including all tanks, hoses, booms, screens, and nozzles, before it is used to apply postemergence pesticides. Equipment with V-10452 3.04 SC Herbicide residue remaining in the system may result in crop injury to the subsequently treated crop.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Application

- **DO NOT** release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators must select nozzle and pressure that deliver Medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 641 (ASABE S641).
- If the windspeed is 10 miles per hour or less, applicators must us 1/2 swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use 3/4 swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- DO NOT apply during temperature inversions.

Ground Boom Applications

- Apply with the nozzle height specified by the manufacturer, but no more than 3 feet above the ground or crop canopy. For all other ground applications, the nozzle must be no more than 3 feet from the target vegetation.
- Applicators must elect nozzle and pressure that deliver Medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- DO NOT apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure specified for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

 Adjust Nozzles – Follow nozzle manufacturer's directions for setting up nozzles. To reduce fine droplets, orient nozzles parallel with the airflow in flight.

BOOM HEIGHT - Ground Boom

For ground equipment, the boom must remain level with the crop and have minimal bounce.

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Boom-less Ground Applications: Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications: Take precautions to minimize spray drift.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Adjuvants and Drift Control Additives: Refer to tank mix partner's label for adjuvant specifications. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

BUFFER RESTRICTIONS

DO NOT apply this product by air within 40 ft of non-target plants including non-target crops.

DO NOT apply this product by air within 100 ft of emerged cotton crops.

DO NOT apply this product by air within 40 ft of streams, wetlands, marshes, ponds, lakes and reservoirs.

Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

		V-10452 3.04 SC Herbicide Rates			
		6.0 fl oz/A	7.5 fl oz/A	9.0 fl oz/A	
		[All soil textures Organic Matter <3%]	[Coarse and medium textured soil Organic Matter 3 to 5%]	[Fine textured soils Organic Matter 3 to 5%]	
		[Preemergence followed by postemergence program - no glyphosate or ALS resistant weeds.]	[Preemergence followed by postemergence program - glyphosate or ALS resistant weeds or heavy weed pressure.]	[Non GMO program - or heavy weed pressure.]	
Common Name	Scientific Name	C = Ce	ontrol or S = Suppre	ssion	
BROADLEAF WEED S	PECIES				
Bristly Starbur	Acanthospermum Hispidum	S	S	S	
Carpetweed	Mollugo verticillata	С	С	С	
Chickweeds		T	T		
Common	Stellaria media	С	С	С	
Mouseear	Cerastium vulgatum	С	С	С	
Coffee Senna	Cassia occidentalis	S	С	С	
Copperleaf, Hophornbeam	Acalypha ostryifolia	S	S	S	
Dandelion	Taraxacum officinale	С	С	С	
Eclipta	Eclipta prostrate	С	С	С	
Evening-primrose, Cutleaf	Oenothera laciniata	С	С	С	
Florida Beggarweed	Desmodium tortuosum	S	С	С	
Florida Pusley	Richardia scabra	С	С	С	
Golden Crownbeard	Verbesina encelioides	S	С	С	
Hairy Indigo	Indigofera hirsute	S	С	С	
Hemp Sesbania	Sesbania exaltata	С	С	С	
Henbit	Lamium amplexicaule	С	С	С	
Jimsonweed	Datura stramonium	С	С	С	
Kochia	Kochia scoparia	С	С	С	
Lambsquarters, Common	Chenopodium album	С	С	С	
Little Mallow	Malva parviflora	С	С	С	
Marestail/Horseweed	Conyza canadensis	С	С	С	
Morningglories ¹					
Entireleaf	Ipomoea hederacea var. Integriuscula	S	С	С	
lvyleaf	Ipomoea hederacea	S	С	С	
Red/Scarlet	Ipomoea coccinea	S	С	С	
Tall	Ipomoea purpurea	S	С	С	
Mustard, Wild	Brassica kaber	С	С	С	
			1	continued	

continued

Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

2.5 2. 110000 0011ti	JJu J. Juppi Goodd Dj	by Residual Activity of V-10452 3.04 SC Herbicide V-10452 3.04 SC Herbicide Rates			
		6.0 fl oz/A [All soil textures Organic Matter <3%]	7.5 fl oz/A [Coarse and medium textured soil Organic Matter 3 to 5%]	9.0 fl oz/A [Fine textured soils Organic Matter 3 to 5%]	
		[Preemergence followed by postemergence program - no glyphosate or ALS resistant weeds.]	[Preemergence followed by postemergence program glyphosate or ALS resistant weeds or heavy weed pressure.]	[Non GMO program or heavy weed pressure.]	
Common Name	Scientific Name	C = C	ontrol or S = Suppre	ssion	
BROADLEAF WEED SE	PECIES				
Nightshades					
Black	Solanum nigrum	С	С	С	
Eastern Black	Solanum ptycanthum	С	С	С	
Hairy	Solanum sarrachoides	С	С	С	
Palmer Amaranth	Amaranthus palmeri	С	С	С	
Pigweeds		1		I	
Redroot	Amaranthus retroflexus	С	С	С	
Smooth	Amaranthus hybridus	С	С	С	
Spiny Amaranth	Amaranthus spinosus	С	С	С	
Tumble	Amaranthus albus	С	С	С	
Prickly Sida (Teaweed)	Sida spinosa	С	С	С	
Puncturevine	Tribulus terrestris	С	С	С	
Purslane, Common	Portulaca oleracea	С	С	С	
Radish, Wild	Raphanus raphanistrum	С	С	С	
Ragweeds ²		T	T	T	
Common	Ambrosia artemisiifolia	S	С	С	
Giant	Ambrosia trifida Calandrinia ciliata var	S	S	S	
Redmaids	Menziessii	С	С	С	
Russian Thistle	Salsola iberica	S	С	С	
Shepherd's-purse	Capsella bursa-pastoris	С	С	С	
Smallflower Morningglory	Jacquemontia tamnifolia	С	С	С	
Spotted Spurge	Euphorbia maculata	С	С	С	
Smartweeds	T	T	T	T	
Ladysthumb	Polygonum persicaria	S	S	S	
Pennsylvania	Polygonum Pensylvanicum	S	S	S	
Spurred Anoda	Anoda cristata	S	С	С	
Tropic Croton	Croton glandulosus	S	С	С	
Velvetleaf	Abutilon theophrasti	С	С	С	
Venice Mallow	Hibiscus trionum	С	С	С	
Waterhemps ²					
Common	Amaranthus rudis	С	С	С	
Tall	Amaranthus tuberculatus	С	С	С	

continued

Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

	ntrolled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide			
	V-10452 3.04 SC Herbicide Rates			
		6.0 fl oz/A [All soil textures Organic Matter <3%]	7.5 fl oz/A [Coarse and medium textured soil Organic Matter 3 to 5%]	9.0 fl oz/A [Fine textured soils Organic Matter 3 to 5%]
		[Preemergence followed by postemergence program - no glyphosate or ALS resistant weeds.]	[Preemergence followed by postemergence program glyphosate or ALS resistant weeds or heavy weed pressure.]	[Non GMO program or heavy weed pressure.]
Common Name	Scientific Name	C = C	ontrol or S = Suppres	sion
BROADLEAF WEED	SPECIES			
Wild Buckwheat	Polygonum convolvulus	S	S	S
Wild Poinsettia	Euphorbia heterophylla	S	С	С
Wormwood, Biennial	Artemisia biennis	S	S	S
GRASS WEED SPEC	IES			
Barnyardgrass	Echinochloa crus-galli	С	С	С
Bluegrass, Annual	Poa annua	С	С	С
Cheat	Bromus secalinus	С	С	С
Crabgrass				
Large	Digitaria sanguinalis	С	С	С
Smooth	Digitaria ischaemum	С	С	С
Cupgrass, Southwestern	Eriochloa gracilis	С	С	С
Downy Brome	Bromus tectorum	С	С	С
Foxtails				
Giant	Setaria faberi	С	С	С
Green	Setaria viridis	С	С	С
Yellow	Setaria glauca	С	С	С
Goosegrass	Eleusine indica	С	С	С
Johnsongrass (seedling)	Sorghum halepense	С	С	С
Lovegrass, California	Eragrostis diffusa	С	С	С
Panicums	T	,	1	
Fall	Panicum dichotomiflorum	С	С	С
Texas	Panicum texanum	С	С	С
Red Rice	Oryza sativa	С	С	С
Ryegrass				
Italian	Lolium multiflorum	С	С	С
Rigid	Lolium rigidum	С	С	С
Signalgrass, Broadleaf	Brachiaria platyphylla	С	С	С

¹ Morningglory species are not adequately controlled on fine soils or soils with greater than 3% organic matter.

² A postemergence herbicide, including Cobra[®], Phoenix[®] or glyphosate (Roundup Ready[®] soybeans only) may be needed following a preemergence application of V-10452 3.04 SC Herbicide to adequately control common ragweed or waterhemp in soybean fields with heavy pressure.

SOIL TEXTURES

[Application rates of V-10452 3.04 SC Herbicide vary depending on soil type and organic matter, soil textures are defined as:

Coarse and Medium	Fine
[sandy loam,] loamy sand, loamy, silt-loam, silt, sandy	silty clay, silty clay loam, clay, clay loam]
clay, sandy clay loam	one, realing

DIRECTIONS FOR COTTON (NO-TILL AND MINIMUM TILL)

USE RESTRICTIONS

- **DO NOT** apply more than 6 fl oz (0.064 lb flumioxazin and 0.080 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per application.
- **DO NOT** apply more than 2 applications per acre per year.
- **DO NOT** apply more than 12 fl oz (0.128 lb flumioxazin and 0.160 pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per year.
- Minimum retreatment is 30 days.
- DO NOT apply within 60 days of harvest.

SPRING BURNDOWN USE DIRECTIONS – For Pre-plant Applications in Cotton

Use V-10452 3.04 SC Herbicide as part of a burndown program for residual weed control and to assist in postemergence burndown of many weeds where cotton will be planted directly into the residue of the previous year. For control of emerged weeds, apply V-10452 3.04 SC Herbicide with an appropriate burndown tank mix partner. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre.

- [For no-till cotton, a minimum of 14 days must pass, and 1 inch of rainfall/irrigation must occur, between V-10452 3.04 SC Herbicide application and planting when a V-10452 3.04 SC Herbicide rate of 3 fl oz/A is used and 21 days when a V-10452 3.04 SC Herbicide rate of 4 to 6 fl oz/A is used. The field must contain the stubble from the previous crop or cover crop including rye or wheat.]
- [For strip-till cotton, V-10452 3.04 SC Herbicide may be applied up to 7 days prior to planting. Conduct strip-till operation anytime between application and planting.]
- [For fallow bed applications, cotton may be planted 7 days following application if the top 2 inches are dragged off the beds prior to planting.]
- Refer to most restrictive label for minimum interval between application and planting.

[V-10452 3.04 SC Herbicide must be applied under the following conditions for acceptable crop tolerance:

- Rate: 6 fl oz/A
- Timing: minimum of 30 days prior to planting.
- Moisture: minimum of 1" rainfall and/or irrigation must occur between application and planting.
- Residue: minimum of 25% of the soil surface covered with residue from the prior crop at the time of V-10452 3.04 SC Herbicide application.
- Soil Texture:
 - **DO NOT** use on soils classified as "Sand" in AR, AZ, LA, MS, NC, OK, SC, TX.
 - **DO NOT** use on soils classified as "Sand" or "Loamy Sand" or soils with over 80% sand in AL, FL, GA unless greater than 50% of the soil surface is covered with the previous crop's residue.
- Tillage: Perform a strip till operation that inverts the soil after V-10452 3.04 SC Herbicide application in AL, FL, GA.]

TANK MIXES

For control of emerged weeds, apply V-10452 3.04 SC Herbicide with an appropriate burndown tank mix partner.

POST DIRECTED AND LAYBY USE DIRECTIONS

For postemergence weed control, apply V-10452 3.04 SC Herbicide through a hooded or shielded sprayer or at layby, at 6 fl oz/A, in combinations with MSMA, diuron or glyphosate, to assist in the control of weeds listed in Table 3, Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of V-10452 3.04 SC Herbicide Tank Mixes with Glyphosate or MSMA in Cotton.

For best results, apply V-10452 3.04 SC Herbicide to actively growing weeds within the growth stages indicated in this label. Applying V-10452 3.04 SC Herbicide under conditions that do not promote active weed growth will reduce herbicide effectiveness. **DO NOT** apply V-10452 3.04 SC Herbicide when the crop or weeds are under stress due to drought, excessive water, extremes in temperature, disease, or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. V-10452 3.04 SC Herbicide is most effective when applied under sunny conditions at temperatures above 65° F.

V-10452 3.04 SC Herbicide also provides residual weed control as listed in Table 2, *Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide* when applied through hooded, shielded and layby application methods.

CARRIER VOLUME AND SPRAY PRESSURE

To ensure thorough coverage in hooded, shielded and layby applications, use a minimum of 15 gallons spray solution per treated acre. Use a minimum of 20 gallons per treated acre under heavy weed pressure. Nozzle selection must meet manufacturer's gallonage and pressure guidelines for application method being used. **DO NOT** use "Flood Jet" nozzles, as they tend to increase the chance of crop injury.

ADDITIVES

Weed control from hooded, shielded or layby application of V-10452 3.04 SC Herbicide in cotton requires the addition of an agronomically approved non-ionic surfactant to the spray mixture. Non-ionic surfactant must contain at least 80% active ingredient. Verify mixing compatibility qualities by a jar test. The use of crop oil concentrates, methylated seed oils, organo-silicant surfactants or products containing these ingredients, may result in severe crop injury.

APPLICATION EQUIPMENT

Apply V-10452 3.04 SC Herbicide tank mixes, with ground equipment using standard commercial sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. All nozzles must be under the hood or behind the shield to ensure no spray solution comes in contact with the cotton. Application equipment must be clean and in good repair. Nozzles must meet manufacturer's guidelines for spray pattern and placement on spray boom and checked frequently for accuracy.

TIMING TO COTTON

Hooded and Shielded Application

V-10452 3.04 SC Herbicide tank mixes may be applied with a hooded or shielded sprayer after cotton has reached a minimum of 6 inches in height. Care must be taken to ensure the spray solution or drift does not come in contact with the cotton or severe crop injury can occur.

Layby Application

Layby application of V-10452 3.04 SC Herbicide tank mixes may be made once cotton has reached a minimum of 16 inches in height. Cotton that is smaller than 16 inches in height may be injured by V-10452 3.04 SC Herbicide applications. V-10452 3.04 SC Herbicide application must be directed to the lower 2 inches of the cotton stem to avoid crop injury.

TIMING TO WEEDS

V-10452 3.04 SC Herbicide tank mix applications must be made to weeds within the height range given in Table 3, *Emerged Broadleaf Weeds Controlled by, Hooded, Shielded and Layby Application of V-10452 3.04 SC Herbicide Tank Mixes with Glyphosate or MSMA in Cotton.*

TANK MIXES

V-10452 3.04 SC Herbicide must be tank mixed with glyphosate in Roundup Ready cotton, glufosinate in Liberty Link® cotton, and/or diuron and MSMA.

Table 3. Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of V-10452 3.04 SC Herbicide Tank Mixes With Glyphosate or MSMA in Cotton

FOR STATE OF THE STATE OF THE STATE OF THE STATE OF MISSES OF STATE OF THE STATE OF		WEED HEIGHT (inches)	
COMMON NAME	SCIENTIFIC NAME	6 fl oz/A	
Bindweed, Field ¹	Convolvulus arvensis	4	
Carpetweed	Mollugo verticillata	4	
Chickweed, Common	Stellaria media	4	
Cocklebur, Common	Xanthium strumarium	4	
Florida Beggarweed	Desmodium tortuosum	2	
Hemp Sesbania	Sesbania exaltata	6	
Jimsonweed	Datura stramonium	4	
Lambsquarters, Common	Chenopodium album	4	
Morningglories			
Entireleaf	Ipomoea hederacea var. integriuscula	4	
lvyleaf	Ipomoea hederacea	4	
Pitted	Ipomoea lacunose	4	
Red	Ipomoea coccinea	4	
Tall	Ipomoea purpurea	2	
Mustard, Wild	Brassica kaber	6	
Nightshades			
Black	Solanum nigrum	4	
Eastern Black	Solanum ptycanthum	4	
Hairy	Solanum sarrachoides	4	
Pigweeds			
Palmer Amaranth	Amaranthus palmeri	4	
Redroot	Amaranthus retroflexus	4	
Smooth	Amaranthus hybridus	4	
Plaintain, Broadleaf	Plantago major	6	
Prickly Sida (Teaweed)	Sida spinosa	4	
Purslane, Common	Portulaca oleracea	2	
Ragweeds			
Common	Ambrosia artemisiifolia	2	
Giant	Ambrosia trifida	4	
Rice Flatsedge	Cyperus iria	2	
Sicklepod	Senna obtusifolia	4	
Smartweeds	•		
Ladysthumb	Polygonum persicaria	4	
Pale	Polygonum lapathifolium	4	
Pennsylvania	Polygonum pensylvanicum	4	
Spotted Spurge	Euphorbia maculat	4	
Velvetleaf	Abutilon theophrasti	4	
Venice Mallow	Hibiscus trionum	2	
Waterhemps			
Common	Amaranthus rudis	2	
Tall	Amaranthus tuberculatus	2	

¹V-10452 3.04 SC Herbicide tank mixes will control the above ground portion of field bindweed. Repeated applications will be needed to control regrowth.

DIRECTIONS FOR FIELD CORN (NO-TILL AND MINIMUM TILL)

USE RESTRICTIONS

- **DO NOT** apply more than 6 fl oz (0.064 lb flumioxazin and 0.080 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per application.
- DO NOT apply more than 1 application per acre per year.
- **DO NOT** apply more than 6 fl oz (0.064 lb flumioxazin and 0.080 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per year.
- **DO NOT** use on popcorn, sweet corn or corn grown for seed.
- DO NOT apply after crop has emerged.

USE PRECAUTIONS

- Use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil.
- Use on soils with less than 1% organic matter only after an activation rainfall or irrigation of 1/2 inch or more water has occurred between application and planting.
- In the states of AR, LA, MS, OK or TX, corn may be planted within 30 days of V-10452 3.04 SC Herbicide application if planting on raised beds. If not planting on raised beds, plant 30 days after V-10452 3.04 SC Herbicide application.
- In the states of AL, FL and GA, corn may be planted within 30 days of V-10452 3.04 SC Herbicide application if strip tillage has occurred between application and planting. If strip tillage has not occurred, plant 30 days.

SPRING BURNDOWN USE DIRECTIONS – For Pre-plant Applications in Field Corn

Use V-10452 3.04 SC Herbicide as part of a burndown program for residual weed control and to assist in postemergence burndown of many weeds where field corn will be planted directly into the residue of the previous year. For control of emerged weeds, apply V-10452 3.04 SC Herbicide with an appropriate burndown tank mix partner. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre.

Apply V-10452 3.04 SC Herbicide at 6 fl oz/A early pre-plant. Plant corn between 7 and 30 days after application unless the application is made as part of a fall burndown program.

TANK MIXES

V-10452 3.04 SC Herbicide may be tank mixed with 2,4-D LVE, atrazine, Basis®, dicamba, Express®, glyphosate, Hornet®, paraquat, Python® WDG, or simazine for pre-plant burndown applications. Refer to tank mix product labels for specific directions and weeds controlled.

DIRECTIONS FOR USE IN GRASS GROWN FOR SEED (Fine Fescue, Perennial Ryegrass, Tall Fescue and Orchardgrass) (For Use in Idaho, Oregon and Washington Only)

V-10452 3.04 SC Herbicide applied in the fall, preemergence to the weeds, in newly carbon-banded plantings, spring planted (at least 8 tillers) and established stands, for residual weed control (at beginning of fall rains) of many annual grasses, volunteer sprouts and winter annual broadleaf weeds (see Table 2. *Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide*). Complete applications by January 31. V-10452 3.04 SC Herbicide may be applied as a broadcast application. V-10452 3.04 SC Herbicide must be incorporated with 1/4 inch of rainfall or evenly applied irrigation. Use V-10452 3.04 SC Herbicide in a sufficient volume of water (at least 20 gallons per acre) for adequate coverage. V-10452 3.04 SC Herbicide can be tank mixed with metribuzin at 0.28 lb ai/A, Goal® 2XL at 4 oz/A (0.063 lb ai/A) or Kerb® SC at 5 oz/A (0.13 lb ai/A).

Grass Weeds Controlled by V-10452 3.04 SC Herbicide

Annual Bluegrass (*Poa annua*) and Roughstalk Bluegrass (*Poa trivialis*); Rattail Fescue and Annual Fescue (*Vulpia myuros*); *Brome* spp.; Italian Ryegrass and Annual Ryegrass (*Lolium perenne* L. subsp. *multiflorum*).

New Plantings

V-10452 3.04 SC Herbicide may be applied at 3.0 fl oz/A as a broadcast treatment over the seed rows that have the activated carbon band above them. The activated carbon over the seed row will adsorb V-10452 3.04 SC Herbicide and allow the seed beneath to germinate. Seed germination is dependent on the quality of the carbon band above the seed. Apply activated carbon at 25 lb/A in a 1 inch band (equal to a 300 lb/A broadcast application) at planting. Apply to smooth, crop residue-free seedbeds. A spray unit on a 12 inch drill applying a slurry band 1 inch wide directly over the seeded rows works well. Use proper agitation to keep the carbon in suspension. Mix activated carbon with water at 0.5 lb/gallon. This band may be compromised due to poor seed bed preparation, heavy rainfall, standing water, steep slopes and other possible disturbances allowing the herbicide to move into the seed row and inhibit crop germination. The grower utilizing this system assumes all risks of crop injury and/or stand loss associated with the application.

Spring Planted Grass Seed Crops

Apply V-10452 3.04 SC Herbicide at 3.0 to 6.0 fl oz/A in the fall following a spring planting if the crop has attained a growth stage of at least eight tillers and depending on stand vigor.

Established Grass Seed Crops (at least one seed harvest)

Apply V-10452 3.04 SC Herbicide following seed harvest at 3.0 to 6.0 fl oz/A depending on stand vigor.

USE RESTRICTIONS

- **DO NOT** apply more than 6.0 fl oz (0.064 lb flumioxazin and 0.080 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per application.
- **DO NOT** make more than 1 application of V-10452 3.04 SC Herbicide per acre per year.
- **DO NOT** apply more than 6.0 fl oz (0.064 lb flumioxazin and 0.080 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per year.
- **DO NOT** apply within 60 days of harvest.
- DO NOT graze treated fields or feed treated hay to livestock sooner than 60 days after application.

DIRECTIONS FOR SOYBEAN (NO-TILL, MINIMUM TILL AND CONVENTIONAL TILL)

USE RESTRICTIONS

- **DO NOT** apply more than 9 fl oz (0.094 lb flumioxazin and 0.120 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per application.
- **DO NOT** apply more than 1 application per acre per year.
- **DO NOT** apply more than 9 fl oz (0.094 lb flumioxazin and 0.120 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per year.
- **DO NOT** graze treated soybean fields or feed treated hay to livestock sooner than 21 days after application.
- DO NOT irrigate when soybeans are cracking.

USE PRECAUTIONS

- Soybean injury may occur if V-10452 3.04 SC Herbicide is used in the same field that flufenacet (Axiom[®], Domain[®]), alachlor (Micro-Tech[®]), metolachlor (Dual[®] products or Boundary[®]) or dimethenamid (Frontier[®] or Outlook[®]) will be used preemergence.
- Severe injury will occur if V-10452 3.04 SC Herbicide is applied when soybeans have begun to crack.

SPRING BURNDOWN USE DIRECTIONS – For Pre-plant Applications in Soybean

Use V-10452 3.04 SC Herbicide as part of a burndown program, for residual weed control and to assist in postemergence burndown of many annual and perennial weeds where soybeans will be planted directly into the residue of the previous year. For control of emerged weeds, apply V-10452 3.04 SC Herbicide with an appropriate burndown tank mix partner. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre.

PREEMERGENCE USE DIRECTIONS

Apply V-10452 3.04 SC Herbicide to soybeans early pre-plant, prior to planting or preemergence. Preemergence application of V-10452 3.04 SC Herbicide must be made within 3 days after planting and prior to soybean emergence.

Apply V-10452 3.04 SC Herbicide at 6 to 9 fl oz per acre per year.

TANK MIXES

V-10452 3.04 SC Herbicide may be tank mixed with chlorimuron, pendimethalin, clomazone, Extreme®, metribuzin, Firstrate®, Lorox®, pendimethalin, Python® WDG, Scepter®, Valor® SX, or Valor XLT. Refer to tank mix product labels for specific directions and weeds controlled.

DIRECTIONS FOR WHEAT (NO-TILL AND MINIMUM TILL FOR PREPLANT APPLICATIONS) (NO-TILL, MINIMUM-TILL AND CONVENTIONAL TILL FOR POSTEMERGENCE APPLICATIONS)

[For use in the states of DE, ID, KY, MD, MN, MS, MT, NC, ND, NJ, OR, SC, SD, TN, VA and WA Only]

USE RESTRICTIONS

- **DO NOT** apply more than 6 fl oz of (0.064 lb flumioxazin and 0.080 lb pyroxasulfone) V-10452 3.04 SC Herbicide per acre per application.
- DO NOT apply more than 1 application per acre per year.
- **DO NOT** apply more than 6 fl oz (0.064 lb flumioxazin and 0.080 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per year.
- For preplant in the states of DE, ID, MD, MN, MO ND, NJ, OR, SD, and WA, apply V-10452 3.04 SC Herbicide a minimum of 30 days prior to planting wheat.
- For preplant in the states of AL, GA, KY, MS, NC, SC, TN and VA apply V-10452 3.04 SC Herbicide a minimum of 14 days prior to planting wheat.
- For post-emergence in the states of AL, GA, KY, MS, NC, SC, TN and VA, apply V-10452 3.04 SC Herbicide in the spike to 2-leaf stage of growth.
- DO NOT irrigate between emergence and spike.
- DO NOT graze until wheat has reached 5 inches in height.

USE PRECAUTIONS

- For preplant applications, use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil.
- Plant wheat a minimum of 1" deep.
- Application to fields where wheat seed has been broadcast and shallow incorporated will result in substantial crop damage.
- Application of lime within 30 days before or after application of this product may result in decreased weed control.
- Rainfall or irrigation of at least ½ inch within 10 days after herbicide application is necessary for herbicide activation and good weed control.

BURNDOWN USE DIRECTIONS - For Pre-plant Applications in Wheat (Refer to restrictions section for specific state use)

Use V-10452 3.04 SC Herbicide as part of a burndown program for residual weed control and to assist in postemergence burndown of many weeds where wheat will be planted directly into the residue of the previous year. For control of emerged weeds, apply V-10452 3.04 SC Herbicide with an appropriate burndown tank mix partner. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre.

Apply V-10452 3.04 SC Herbicide at 6 fl oz per acre per year.

TANK MIXES

For control of emerged weeds, apply V-10452 3.04 SC Herbicide with an appropriate burndown tank mix partner.

POSTEMERGENCE USE DIRECTIONS (Refer to restrictions section for specific state use) Application Restrictions

Apply V-10452 3.04 SC herbicide at 1.5 fl oz/acre in 10-20 GPA to wheat between the spike and 2-leaf stage to ensure adequate coverage of emerged weeds. **DO NOT** tank mix V-10452 3.04 SC Herbicide with any adjuvant, fertilizer or pest control product or severe injury to wheat will occur. Avoid applications to heavy sand and low organic matter areas. Applications to these areas along with heavy rain may cause excessive injury.

DIRECTIONS FOR USE IN FALL BURNDOWN AND FALLOW LAND

Apply V-10452 3.04 SC Herbicide at 6 to 9 fl oz/A in the fall to provide residual weed control in fields that will be planted the following spring as identified in the crop rotational interval table. Weeds controlled or suppressed by residual activity are listed in Table 2, *Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide*. If weeds have emerged at the time of application, use V-10452 3.04 SC Herbicide in combination with a labeled burndown herbicide. Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

TANK MIXES

V-10452 3.04 SC Herbicide, applied as part of a burndown program, may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where crops will be planted directly into a stale seedbed, cover crop or in previous crop residues. Choose the most appropriate tank mix partner for control of emerged weeds. To ensure thorough coverage, use a minimum of 15 gals of spray solution per acre. Refer to tank mix partner's label.

DIRECTIONS FOR USE TO MAINTAIN BARE GROUND ON NON-CROP AREAS

Use V-10452 3.04 SC Herbicide to maintain bare ground on non-crop areas for non-selective vegetation control in areas including around farm buildings, along ungrazed fence rows, wind breaks and shelter belts. Follow all directions as outlined in "Use Information" section of this label.

V-10452 3.04 SC Herbicide offers residual and postemergence control of susceptible broadleaf and grass weeds. V-10452 3.04 SC Herbicide can be tank mixed for increased residual or postemergence control. The length of residual control is dependent on the rate applied as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase. V-10452 3.04 SC Herbicide rates of 6 to 9 fl oz/A are required to provide residual control of the weeds listed in Table 2, *Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide*.

USE RESTRICTIONS

- **DO NOT** apply more than 9 fl oz (0.094 lb flumioxazin and 0.120 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per application.
- **DO NOT** apply more than 1 application per acre per year.
- **DO NOT** apply more than 9 fl oz (0.094 lb flumioxazin and 0.120 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per year.
- **DO NOT** apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- **DO NOT** apply to ditch banks.

PREEMERGENCE APPLICATION

Apply V-10452 3.04 SC Herbicide at 6 to 9 fl oz/A per broadcast acre as a preemergence application. Make the preemergence (to weed emergence) applications of V-10452 3.04 SC Herbicide to a weed-free soil surface. Preemergence applications of V-10452 3.04 SC Herbicide must be completed prior to weed emergence. Moisture is necessary to activate V-10452 3.04 SC Herbicide on soil for residual weed control. Dry weather following application of V-10452 3.04 SC Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, V-10452 3.04 SC Herbicide will control susceptible germinating weeds.

POSTEMERGENCE APPLICATION

Apply V-10452 3.04 SC Herbicide at 6 to 9 fl oz/A per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate). The addition of an adjuvant enhances V-10452 3.04 SC Herbicide activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of V-10452 3.04 SC Herbicide. Emerged weeds are controlled postemergence with V-10452 3.04 SC Herbicide, however, translocation of V-10452 3.04 SC Herbicide within a weed is limited, and control is affected by spray coverage and by the addition of an adjuvant. The most effective postemergence weed control with V-10452 3.04 SC Herbicide occurs when applied in combination with a surfactant to weeds less than 2 inches in height. A tank mix partner must not be used in combination with V-10452 3.04 SC Herbicide for the postemergence control of weeds larger than 2 inches.

TANK MIXES

For control of emerged weeds, apply V-10452 3.04 SC Herbicide with an appropriate burndown tank mix partner. Completely read and follow the label of any potential tank mix partner with V-10452 3.04 SC Herbicide. When using tank mixtures, use conditions must be in accordance with the most restrictive of the label limitations and precautions on either herbicide label.

CROP ROTATIONAL INTERVAL

The following rotational crops may be planted after applying V-10452 3.04 SC Herbicide at the listed rate. Planting earlier than the directed rotational interval may result in crop injury.

Crops	V-10452 3.04 SC Herbicide Use Rates Interval Months		
-	6 fl oz/A	7.5 fl oz/A	9 fl oz/A
Alfalfa	10	10	10
Canola	12	12	15
Clover	18	18	18
Corn, Field (conventional till)	1	1	1
Corn, Field (reduced till)	7 days	1	1
Corn, Sweet	3	4	4
Cotton (conventional till)	1½	2	2
Cotton (reduced till)	1	2	2
Dry Beans (edible)	10½	10½	10½
Edible Peas and other edible beans (except field peas)	9	9	11
Grass grown for seed	18	18	18
Grass grown for seed with Charcoal band	0	2	2
Lentils	6	7	7
Peanuts	2	2	2
Peas, Field	2	2	4
Potato	4	4	4
Rice	10	10	12
Small Grains (other than wheat)	11	12	12
Sorghum, Grain	6	6	10
Soybean	0	0	0
Sugar Beet	12	12	12
Sunflower	4	4	4
Sweet Potato	9	9	9
Tobacco	12	12	12
Wheat	1	2	2
Other crops not listed above	18	18	18

CROP FAILURE

If the crop treated with V-10452 3.04 SC Herbicide is lost due to a catastrophe, including hail or other forms of inclement weather refer to Crop Rotational Interval Table for re-plant intervals.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage, disposal or cleaning of equipment.

STORAGE

Keep pesticide in original container.

Store in a cool, dry, secure place.

DO NOT put formulation or dilute spray solution into food or drink containers.

DO NOT contaminate food or foodstuffs.

DO NOT store or transport near feed or food.

Not for use or storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night (800) 892-0099.

PESTICIDE DISPOSAL

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

CONTAINER HANDLING

[Use the following statement for containers equal to or less than 5 gallons]

[Nonrefillable container. **DO NOT** reuse or refill this container. Clean container promptly after emptying. Triple rinse container (or equivalent) 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or other procedures allowed by State and local authorities.]

[Vse the following statement for rigid nonrefillable containers greater than 5 gallons] [Nonrefillable 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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or other procedures allowed by State and local authorities.]

[Wee the following statement for all formulation types/all refillable container types]
[Refillable container. Refill this container with pesticide only. DO NOT reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or other procedures allowed by state and local authorities.]

[NOTE TO REVIEWER:]

[Making the product more restrictive than Federally accepted by incorporating the optional statement "Not registered for use in California." may be undertaken on the container label for any use, weed or crop as determined to be necessary to procure CADPR registration.]
[If this product is marketed or distributed by a third party, their logo and Warranty statement will be included on the label.]

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Axiom, Domain and Liberty Link are registered trademarks of Bayer

Boundary and Dual are registered trademarks of Syngenta

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Firstrate (EPA Reg. No. 62719-275 - cloransulam-methyl), Goal (EPA Reg. No. 62719-424 - oxyfluorfen), Hornet (EPA Reg. No. 62719-315 - flumetsulam/clopyralid), Kerb (EPA Reg. No. 62719-578 - pronamide) and Python (EPA Reg. No. 62719-277 - flumetsulam) are registered trademarks of Dow AgroSciences LLC

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Manufactured for: Valent U.S.A. LLC P.O. Box 5075 San Ramon CA 94583

Made in U.S.A.

EPA Reg. No. 59639-237 EPA Est.

059639-00237.20221103.V10452 3.04SC.Amend.Clean

[Sub Label 2]

V-10452 3.04 SC Herbicide

For control and/or suppression of listed weeds to maintain bare ground on non-crop areas.



FLUMIOXAZIN	GROUP	14	HERBICIDE
PYROXASULFONE	GROUP	15	HERBICIDE

[Bracketed text is optional]
[Bracketed Italicized text is information for the reviewer]

V-10452 3.04 SC Herbicide

FOR CONTROL AND/OR SUPPRESSION OF LISTED WEEDS TO MAINTAIN BARE GROUND ON NON-CROP AREAS.

Active Ingredient	By Wt
Flumioxazin*	14.04%
Pyroxasulfone**	17.81%
Other Ingredients	68.15%
Total	100.00%

^{*}N-[7-fluoro-3,4-dihydro-3-oxo-4-(prop-2-ynyl)-2*H*-1,4-benzoxazin-6-yl]cyclohex-1-ene-1,2-dicarboximide

V-10452 3.04 SC Herbicide is suspension concentrate containing 1.34 lb flumioxazin and 1.70 lb pyroxasulfone per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT [PAGE][PANEL] [BOOKLET] FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA Reg. No. 59639-237 EPA Est.

NET CONTENTS

[Always Mix Product Thoroughly Before Use] [Shake Well Before Using]

^{**[5-(}difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1*H*-pyrazol-4-yl]methyl 4,5-dihydro-5,5-dimethylisoxazol-3-yl sulfone

	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.

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 800-892-0099 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, for example barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride or Viton ≥ 14 mils, shoes and socks.

User Safety Requirements

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

Engineering Controls

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

USER SAFETY RECOMMENDATIONS

- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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 product is toxic to non-target plants and aquatic invertebrates. **DO NOT** apply when weather conditions favor drift from treated areas. **DO NOT** contaminate water when disposing of equipment washwaters.

This pesticide is toxic to plants and must be used in strict accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

NON-TARGET ORGANISM ADVISORY

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

Ground Water Advisory: This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisories: DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** contaminate water when disposing of equipment wash waters or rinsate.

The product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams and springs will reduce potential loading of pyroxasulfone and its degradation product, 5-difluoromethoxy-1H-pyrazol-4-yl) methanesulfonic acid (M1), from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

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.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift.

DO NOT enter or allow others to enter treated areas until sprays have dried.

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

IMPORTANT: Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, 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. 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. If the Buyer chooses not to accept 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.

The Directions for Use of this product must be followed carefully. 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. To the extent consistent with applicable law, 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 AND DISCLAIMER

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, 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. 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 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 later, 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 **Risks of Using This Product**, **Limited Warranty and Disclaimer**, 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. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Weed Resistance Management

For resistance management, please note that V-10452 3.04 SC Herbicide contains both a Group 14 /flumioxazin and a Group 15/pyroxasulfone herbicide. Any weed population may contain plants naturally resistant to Group 14 and/or Group 15 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of V-10452 3.04 SC Herbicide or other Group 14 and Group 15 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where
 information on resistance in target weed species is available, use the less resistanceprone partner at a rate that will control the target weed(s) equally as well as the more
 resistance-prone partner. Consult your local extension service or certified crop advisor if
 you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting
 and uses historical information related to herbicide use and crop rotation, and that
 considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding
 rates; precision fertilizer application method and timing to favor the crop and not the
 weeds), biological (weed-competitive crops or varieties) and other management
 practices.
- Fields should be scouted prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective. Fields should be scouted after application to verify that the treatment was effective. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method, for example hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management strategies for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Valent U.S.A. LLC at 800-89-VALENT (898-2536).

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PRODUCT INFORMATION

V-10452 3.04 SC Herbicide is a preemergence and early postemergence herbicide for control of selected grass and broadleaf weeds to maintain bare ground and certain perennial grasses in non-crop areas.

Weeds controlled or suppressed by V-10452 3.04 SC Herbicide are listed in Table 2, Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide.

Preemergence weed control with V-10452 3.04 SC Herbicide is most effective when applied to clean, weed free soil surfaces. The most effective postemergence weed control with V-10452 3.04 SC Herbicide occurs when applied in combination with a surfactant to weeds less than 2 inches in height. Follow specific site use directions prior to using surfactant as certain over the top applications restrict the use of the surfactants.

Table 1. V-10452 3.04 SC Herbicide Rate Summary

fl oz of V-10452 3.04 SC Herbicide	Pounds of flumioxazin	Pounds of pyroxasulfone
9.0	0.094	0.120
12.0	0.128	0.160
16.0	0.167	0.213
20.0	0.209	0.267

USE RESTRICTIONS (Applicable to all uses [on this [sub-]label])

- **DO NOT** apply more than 20 fl oz (0.209 lb flumioxazin and 0.267 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per year by ground application.
- **DO NOT** apply more than 9 fl oz (0.094 lb flumioxazin and 0.120 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per year by aerial application.
- DO NOT apply more than 1 application per acre per year.
- DO NOT rotate to food or feed crops after application to bare ground on non-crop areas.
- DO NOT apply in enclosed greenhouse structures.
- **DO NOT** apply when weather conditions favor spray drift from treated areas.
- **DO NOT** incorporate into soil after application.
- DO NOT apply this product through any type of irrigation system.
- DO NOT apply to residential lawns, golf courses, sod farms or production and landscape ornamentals.
- **DO NOT** apply to areas with adjacent non-dormant pome or stone fruit crops.

USE PRECAUTION

 Treatment of powdery, dry soil or light sandy soil, when there is little to no likelihood of rainfall soon after may result in off target movement and possible damage to actively growing susceptible crops when soil particles are moved by wind or water.

APPLICATION INFORMATION

SPRAYER PREPARATION

Before applying V-10452 3.04 SC Herbicide, start with clean, well maintained application equipment. The spray tank, as well as all hoses and booms, must be cleaned to ensure no residue from the previous spraying operation remains in the sprayer. Some pesticides, including but not limited to, the sulfonylurea and phenoxy herbicides, are active at very small amounts and can cause crop injury when applied to susceptible crops. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply V-10452 3.04 SC Herbicide. Follow the most restrictive cleanup procedure if two or more products were tank mixed prior to V-10452 3.04 SC Herbicide application.

MIXING INSTRUCTIONS

- 1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
- 2. If a drift retardant is to be used, add 10 lb of spray grade ammonium sulfate per 100 gallons of spray solution, unless prohibited by the tank mix partner.
- 3. While agitating, slowly add V-10452 3.04 SC Herbicide to the spray tank. Agitation creates a rippling or rolling action on the water surface.
- 4. If tank mixing V-10452 3.04 SC Herbicide with other labeled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
- 5. Add any required adjuvants.
- 6. Fill spray tank to desired level with water. **Continue agitation until all spray solution has been applied**.
- 7. Mix only the amount of spray solution that can be applied the day of mixing.

APPLICATION METHOD

Apply V-10452 3.04 SC Herbicide by ground or by air.

1. GROUND APPLICATION

Apply V-10452 3.04 SC Herbicide, and V-10452 3.04 SC Herbicide tank mixes, with ground equipment using standard commercial sprayers equipped with flat fan (pre-plant or preemergence applications only) designed to deliver the desired spray pressure and spray volume.

2. AERIAL APPLICATION

Spray drift away from the site of application may cause damage to non-target vegetation.

CARRIER VOLUME AND SPRAY PRESSURE

When used as part of a burndown or preemergence weed control program, apply V-10452 3.04 SC Herbicide in a minimum of 7 gallons of water per acre. Application at less than 7 gallons per acre may provide inadequate control.

JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND V-10452 3.04 SC HERBICIDE

When using V-10452 3.04 SC Herbicide and an adjuvant, perform a jar test before mixing commercial quantities of V-10452 3.04 SC Herbicide, when using V-10452 3.04 SC Herbicide for the first time, when using new adjuvants or when a new water source is being used.

- 1. Add 1 pt of the water to a quart jar. Use water from the same source and temperature as which will be used in the spray tank mixing operation.
- 2. Add 2 ml of V-10452 3.04 SC Herbicide to the quart jar for every 6 fl oz of V-10452 3.04 SC Herbicide per acre being applied (1 ml if 6 fl oz/A is the desired V-10452 3.04 SC Herbicide rate), gently mix until product goes into suspension.
- 3. Add 60 ml (4 Tbsp or 2 fl oz) of the crop oil or methylated seed oil to the quart jar or 1 ml of non-ionic surfactant if it is being used in place of oil, gently mix.
- 4. If nitrogen is being used, add 16 ml (1 Tbsp or 0.5 oz) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 g AMS to the quart jar in place of the 28 to 32% nitrogen.
- 5. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
- 6. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed question the choice of adjuvant:
 - a) Layer of oil or globules on the mixture's surface.
 - b) Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
 - c) Clabbering: thickening texture (coagulated) like gelatin.

SPRAYER CLEANUP

Spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following V-10452 3.04 SC Herbicide application. After V-10452 3.04 SC Herbicide is applied, the following steps must be used to clean the spray equipment:

- Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside
 of the tank and all in-line screens.
- Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
- Top off tank, add 1 gallon of 3% household ammonia (or equivalent) for every 100 gallons of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes. If diaphragms are being used on the spray boom, loosen diaphragms before flushing the spray system, allowing cleaning solution to spray through the open diaphragm. If spray lines have any end caps, they must be loosened before flushing the system, allowing cleaning solution to spray though the loosened caps. To enhance removal of V-10452 3.04 SC Herbicide from the spray system, add a tank cleaner including "Valent Tank Cleaner", in place of ammonia and allow the cleaning solution to remain in the pressurized spray system (spray tank, hoses and boom) for 8 hours before flushing the system for a minimum of 15 minutes.
- Drain tank completely.
- Add enough clean water to the spray tank to allow all hoses, booms, screens and nozzles to be flushed for 2 minutes.
- Remove all nozzles and screens and rinse them in clean water.

Thoroughly clean the spray equipment, including all tanks, hoses, booms, screens and nozzles, before it is used to apply postemergence pesticides. Equipment with V-10452 3.04 SC Herbicide residue remaining in the system may result in crop injury to the subsequently treated crop.

ADDITIVES

When an adjuvant is to be used with this product, use a Chemical Producers and Distributors Association certified adjuvant. Mix V-10452 3.04 SC Herbicide with a crop oil concentrate that contains at least 15% emulsifiers and 80% oil or a non-ionic surfactant containing at least 80% active ingredient when applying V-10452 3.04 SC Herbicide as part of a postemergence weed control program. Verify the mixing compatibility by a jar test before using.

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

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Application

- **DO NOT** release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators must select nozzle and pressure that deliver Medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 641 (ASABE S641).
- If the windspeed is 10 miles per hour or less, applicators must us 1/2 swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use 3/4 swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- DO NOT apply during temperature inversions.

Ground Boom Applications

- Apply with the nozzle height specified by the manufacturer, but no more than 3 feet above the ground or crop canopy. For all other ground applications, the nozzle must be no more than 3 feet from the target vegetation.
- Applicators must elect nozzle and pressure that deliver Medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- DO NOT apply when wind speeds exceed 15 miles per hour at the application site.
- DO NOT apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray
 drift. Use the highest practical spray volume for the application. If a greater spray volume is
 needed, consider using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure specified for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

• Adjust Nozzles – Follow nozzle manufacturer's directions for setting up nozzles. To reduce fine droplets, orient nozzles parallel with the airflow in flight.

BOOM HEIGHT - Ground Boom

For ground equipment, the boom must remain level with the crop and have minimal bounce.

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Boom-less Ground Applications: Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications: Take precautions to minimize spray drift.

Adjuvants and Drift Control Additives: Refer to tank mix partner's label for adjuvant specifications. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

BUFFER RESTRICTIONS

DO NOT apply this product by air within 40 ft of non-target plants including non-target crops.

DO NOT apply this product by air within 100 ft of emerged cotton crops.

DO NOT apply this product by air within 40 ft of streams, wetlands, marshes, ponds, lakes and reservoirs.

Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

Common Name	Scientific Name	C = Control S = Suppression
BROADLEAF WEED SPECIES		
Bristly Starbur	Acanthospermum hispidum	S
Carpetweed	·	
Chickweeds	<u> </u>	С
Common	Stellaria media	С
Mouseear	Cerastium vulgatum	С
Coffee Senna	Cassia occidentalis	С
Common Ragweed	Ambrosia artemisiifolia	С
Copperleaf, Hophornbeam	Acalypha ostryifolia	S
Dandelion	Taraxacum officinale	С
Eclipta	Eclipta prostrata	С
Evening-primrose, Cutleaf	Oenothera laciniata	С
False Chamomile	Tripleurospermum maritima	С
Fleabane, Hairy	Conyza bonarieniss	С
Flixweed	Descurainia Sophia	S
Florida Beggarweed	Desmodium tortuosum	С
Florida Pusley	Richardia scabra	С
Golden Crownbeard	Verbesina encelioides	С
Groundsel, Common	Senecio vulgaris	С
Hairy Indigo	Indigofera hirsute	С
Hemp Sesbania	Sesbania exaltata	С
Henbit	Lamium amplexicaule	С
Jimsonweed	Datura stramonium	С
Kochia	Kochia scoparia	С
Lambsquarters, Common	Chenopodium album	С
Little Mallow	Malva parviflora	С
Marestail/Horseweed	Conyza canadensis	С
Morningglories		
Entireleaf	Ipomoea hederacea var. integriuscula	С
lvyleaf	Ipomoea hederacea	С
Red/Scarlet	Ipomoea coccinea	С
Smallflower	Jacquemontia tamnifolia	С
Tall	Ipomoea purpurea	С
Mustard		
Tansy	Descurainia pinnata	С
Tumble	Sisymbrium altissimum	С
Wild	Brassica kaber	С
Nightshades		T
Black	Solanum nigrum	С
Eastern Black	Solanum ptycanthum C	
Hairy	Solanum sarrachoides Amaranthus palmeri	С
Palmer Amaranth	С	

Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

Common Name	Scientific Name	C = Control S = Suppression	
BROADLEAF WEED SPECIES			
Pigweeds			
Redroot	Amaranthus retroflexus	С	
Smooth	Amaranthus hybridus	C	
Spiny Amaranth	Amaranthus spinosus	C	
Tumble	Amaranthus albus	С	
Prickly Lettuce	Lactuca serriola	С	
Prickly Sida (Teaweed)	Sida spinosa	С	
Puncturevine	Tribulus terrestris	С	
Purslane			
Common	Portulaca oleracea	С	
Horse	Trianthema portulacastrum	С	
Radish, Wild	Raphanus raphanistrum	С	
Ragweed			
Common	Ambrosia arteminifolia	С	
Giant	Ambrosia trifida	S	
Redmaid	Calandrinia ciliata var menziessii	С	
Russian Thistle	Salsola iberica	С	
Shepherd's-purse	Capsella bursa-pastoris	С	
Smartweeds			
Ladysthumb	Polygonum persicaria	S	
Pennsylvania	Polygonum pensylvanicum	S	
Spotted Spurge	Euphorbia maculata	С	
Spurred Anoda	Anoda cristata	С	
Tropic Croton	Croton glandulosus	С	
Velvetleaf	Abutilon theophrasti	С	
Venice Mallow	Hibiscus trionum	С	
Waterhemps			
Common	Amaranthus rudis	С	
Tall	Amaranthus tuberculatus	С	
Wild Buckwheat	Polygonum convolvulus	S	
Wild Poinsettia	Euphorbia heterophylla	С	
Wormwood, Biennial	Artemisia biennis	S	
GRASS WEED SPECIES			
Barnyardgrass	Echinochloa crus-galli	С	
Bluegrass, Annual	Poa annua	С	
Cheat	Bromus secalinus	С	
Crabgrass			
Large	Digitaria sanguinalis	С	
Smooth	Digitaria ischaemum	С	
Cupgrass, Southwestern	Eriochloa gracilis	С	
Downy Brome	Bromus tectorum	С	

Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

Common Name	Scientific Name	C = Control S = Suppression		
GRASS WEED SPECIES				
Foxtails				
Giant	Setaria faberi	С		
Green	Setaria viridis	С		
Yellow	Setaria glauca	С		
Goosegrass	Eleusine indica	С		
Johnsongrass (seedling)	Sorghum halepense	С		
Lovegrass, California	Eragrostis diffusa	С		
Panicums				
Fall	Panicum dichotomiflorum	С		
Texas	Panicum texanum	С		
Red Rice	Oryza sativa	С		
Ryegrass				
Italian	Lolium multiflorum	С		
Rigid	Lolium rigidum C			
Signalgrass, Broadleaf	Brachiaria platyphylla C			
Sprangletop	Leptochloa spp. C			

DIRECTIONS FOR USE TO MAINTAIN BARE GROUND IN NON-CROP AREAS

V-10452 3.04 SC Herbicide, when used as directed, can be used for non-selective vegetation control to maintain bare ground in non-crop areas that must be kept weed-free. Apply V-10452 3.04 SC Herbicide only to:

- Bare ground under guardrails, pipelines, railroad beds, railroad yards and surrounding areas.
- Bare ground in parking and storage areas, plant sites, substations, pumping stations, and tank farms.
- Bare ground areas of airports, brickyards, industrial plant sites, lumber yards and military installations, and storage areas.
- Bare ground around farm buildings and along ungrazed fencerows, wind breaks, and shelter belts.
- Road surfaces, improved roadside areas and gravel shoulders.

V-10452 3.04 SC Herbicide offers residual and postemergence control of susceptible broadleaf and grass weeds listed in Table 2, *Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide*. V-10452 3.04 SC Herbicide can be tank mixed with the herbicides listed in Table 3, *Tank Mix Combinations for Non-Selective Vegetation*. Control for increased residual or postemergence control. The length of residual control is dependent on the rate applied as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase.

PREEMERGENCE APPLICATION

Apply V-10452 3.04 SC Herbicide 16 to 20 fl oz/A by ground or 9 fl oz/A by air as a preemergence application on all soil types (up to 5% organic matter). Make the preemergence (to weed emergence) applications of V-10452 3.04 SC Herbicide to a weed-free soil surface. Preemergence applications of V-10452 3.04 SC Herbicide must be completed prior to weed emergence. Moisture is necessary to activate V-10452 3.04 SC Herbicide on soil for residual weed control. Dry weather following application of V-10452 3.04 SC Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, V-10452 3.04 SC Herbicide will control susceptible germinating weeds.

POSTEMERGENCE APPLICATION

Apply V-10452 3.04 SC Herbicide at 16 to 20 fl oz/A by ground or 9 fl oz/A by air plus an adjuvant (0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate). The addition of an adjuvant enhances V-10452 3.04 SC Herbicide activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of V-10452 3.04 SC Herbicide. Small, emerged weeds are controlled or suppressed with V-10452 3.04 SC Herbicide, however, translocation of V-10452 3.04 SC Herbicide within a weed is limited, and optimal control requires thorough spray coverage and by the addition of an adjuvant. The most effective postemergence weed control with V-10452 3.04 SC Herbicide occurs when applied in combination with a surfactant to weeds less than 2 inches in height. Use a tank mix partner in combination with V-10452 3.04 SC Herbicide for the postemergence control of weeds larger than 2 inches. Some tank mix partners are listed in Table 3, *Tank Mix Combinations for Non-Selective Vegetation*.

V-10452 3.04 SC Herbicide is rainfast one hour after application. Postemergent activity may be reduced if rainfall occurs within one hour after application.

IMPORTANT: Completely read and follow the label of any potential tank mix partner with V-10452 3.04 SC Herbicide. When using tank mixtures, use conditions must be in accordance with the most restrictive of the label limitations and precautions on either herbicide label.

Table 3. Tank Mix Combinations For Non-Selective Vegetation Control

2,4-D	hexazinone	prodiamine
aminocyclopyrachlor	imazapic	rimsulfuron
aminopyralid	imazapyr	saflufenacil
bromacil	metsulfuron methyl	simazine
chlorsulfuron	norfurazon	sulfentrazone
chlorpyralid	oryzalin	sulfometuron methyl
dicamba	pendimethalin	tebuthiuron
diuron	picloram	topramezone
glyphosate	pramitol	triclopyr

DIRECTIONS FOR USE ON BAHIAGRASS AND BERMUDAGRASS IN NON-CROP AREAS

V-10452 3.04 SC Herbicide may be used to promote the growth of (release of) bermudagrass and bahiagrass in non-crop sites where V-10452 3.04 SC Herbicide is labeled for bare ground weed control and low maintenance vegetation and erosion control is desired. These sites include roadsides, utility rights-of-way, railroad crossings, airports, and other non-crop sites. Application of V-10452 3.04 SC Herbicide may result in unacceptable injury to other grasses. **DO NOT** apply V-10452 3.04 SC Herbicide in residential and commercial landscapes, golf courses or sod farms.

APPLICATION TIMING

Apply V-10452 3.04 SC Herbicide during the fall, winter, or spring when bahiagrass and bermudagrass are dormant or semi dormant (not actively growing). Optimal application timing is before germination of target weeds, but V-10452 3.04 SC Herbicide will also provide early postemergent control of small, emerged weeds. Application of V-10452 3.04 SC Herbicide to actively growing bahiagrass and bermudagrass may injure foliage and temporarily suppress growth, but V-10452 3.04 SC Herbicide has limited systemic activity and bahiagrass and bermudagrass will typically outgrow injury.

PREEMERGENCE APPLICATION

Apply V-10452 3.04 SC Herbicide at 12 to 20 fl oz/A as a preemergence application. Moisture is necessary to activate V-10452 3.04 SC Herbicide on soil for residual weed control. Dry weather following application of V-10452 3.04 SC Herbicide may reduce effectiveness.

POSTEMERGENCE APPLICATION

Apply V-10452 3.04 SC Herbicide at 12 to 20 fl oz/A plus an adjuvant (0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate). The addition of an adjuvant enhances V-10452 3.04 SC Herbicide activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of V-10452 3.04 SC Herbicide. Small, emerged weeds are suppressed or controlled with V-10452 3.04 SC Herbicide; however, translocation of V-10452 3.04 SC Herbicide within a weed is limited, and optimal control requires thorough spray coverage and the addition of an adjuvant. The most effective postemergence weed control with V-10452 3.04 SC Herbicide occurs when applied in combination with a surfactant to weeds less than 2 inches in height. Use a tank mix partner in combination with V-10452 3.04 SC Herbicide for the postemergence control of weeds larger than 2 inches. Tank mixing V-10452 3.04 SC Herbicide with other herbicides may increase the potential for bahiagrass and bermudagrass injury or growth suppression.

IMPORTANT: Read and follow label directions for all tank mix products before using. Confirm that the tank mix partners are registered for use on bahiagrass and bermudagrass. Always follow the most restrictive labeling of any tank mix product.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage, disposal, or cleaning of equipment.

STORAGE

Keep pesticide in original container.

Store in a cool, dry, secure place.

DO NOT put formulation or dilute spray solution into food or drink containers.

DO NOT contaminate food or foodstuffs.

DO NOT store or transport near feed or food.

Not for use or storage in or around the home.

For help with any spill, leak, fire, or exposure involving this material, call day or night (800) 892-0099.

PESTICIDE DISPOSAL

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

CONTAINER HANDLING

[Use the following statement for containers equal to or less than 5 gallons]

[Nonrefillable container. **DO NOT** reuse or refill this container. Clean container promptly after emptying. Triple rinse container (or equivalent) 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or other procedures allowed by State and local authorities.]

[Vse the following statement for rigid nonrefillable containers greater than 5 gallons] [Nonrefillable 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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or other procedures allowed by State and local authorities.]

[Use the following statement for all formulation types/all refillable container types] [Refillable container. Refill this container with pesticide only. DO NOT reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or other procedures allowed by state and local authorities.]

[NOTE TO REVIEWER:]

[Making the product more restrictive than Federally accepted by incorporating the optional statement "Not registered for use in California." may be undertaken on the container label for any use, weed or crop as determined to be necessary to procure CADPR registration.]
[If this product is marketed or distributed by a third party, their logo and Warranty statement will be included on the label.]

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Valent Tank Cleaner is a product of Valent U.S.A. LLC

Manufactured for: Valent U.S.A. LLC P.O. Box 5075 San Ramon CA 94583

Made in U.S.A.

EPA Reg. No. 59639-237 EPA Est.

059639-00237.20221103.V10452_3.04SC.Amend.Clean

[Sub Label 3]

V-10452 3.04 SC Herbicide

For use in container and field grown conifers and deciduous trees (including Christmas trees), around established woody ornamentals in landscapes, and to maintain bare ground in nurseries and landscapes.



FLUMIOXAZIN	GROUP	14	HERBICIDE
PYROXASULFONE	GROUP	15	HERBICIDE

[Bracketed text is optional text]
[Bracketed Italicized text is information for the reviewer]

V-10452 3.04 SC Herbicide

FOR USE IN CONTAINER AND FIELD GROWN CONIFERS AND DECIDUOUS TREES (INCLUDING CHRISTMAS TREES), AROUND ESTABLISHED WOODY ORNAMENTALS IN LANDSCAPES, AND TO MAINTAIN BARE GROUND IN NURSERIES AND LANDCAPES.

Active Ingredient	By Wt
Flumioxazin*	14.04%
Pyroxasulfone**	17.81%
Other Ingredients	68.15%
Total	100.00%

^{*}N-[7-fluoro-3,4-dihydro-3-oxo-4-(prop-2-ynyl)-2H-1,4-benzoxazin-6-yl]cyclohex-1-ene-1,2-dicarboximide
**[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl 4,5-dihydro-5,5-dimethylisoxazol-3-yl sulfone

V-10452 3.04 SC Herbicide is suspension concentrate containing 1.34 lb flumioxazin and 1.70 lb pyroxasulfone per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT [PAGE][PANEL] [BOOKLET] FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA Reg. No. 59639-237 EPA Est.

NET CONTENTS

[Always Mix Product Thoroughly Before Use] [Shake Well Before Using]

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. 	

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 800-892-0099 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material for example barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride or Viton ≥ 14 mils, shoes and socks.

User Safety Requirements

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

Engineering Controls

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

USER SAFETY RECOMMENDATIONS

- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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 product is toxic to non-target plants and aquatic invertebrates. **DO NOT** apply when weather conditions favor drift from treated areas. **DO NOT** contaminate water when disposing of equipment washwaters.

This pesticide is toxic to plants and must be used in strict accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

NON-TARGET ORGANISM ADVISORY

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

Ground Water Advisory: This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisories: DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** contaminate water when disposing of equipment wash waters or rinsate.

The product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams and springs will reduce potential loading of pyroxasulfone and its degradation product, 5-difluoromethoxy-1H-pyrazol-4-yl) methanesulfonic acid (M1), from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

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, including plants, soil or water is: coveralls, chemical resistant gloves made of waterproof material, example barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride or Viton ≥ 14 mils, shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift.

DO NOT enter or allow others to enter treated areas until sprays have dried.

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

IMPORTANT: Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, 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. 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. 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.

The Directions for Use of this product must be followed carefully. 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. To the extent consistent with applicable law, 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 AND DISCLAIMER

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, 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. 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 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 later, 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 **Risks of Using This Product**, **Limited Warranty and Disclaimer**, 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. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Weed Resistance Management

For resistance management, please note that V-10452 3.04 SC Herbicide contains both a Group 14/flumioxazin and a Group 15/pyroxasulfone herbicide. Any weed population may contain plants naturally resistant to Group 14 and/or Group 15 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of V-10452 3.04 SC Herbicide or other Group 14 and Group 15 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where
 information on resistance in target weed species is available, use the less resistanceprone partner at a rate that will control the target weed(s) equally as well as the more
 resistance-prone partner. Consult your local extension service or certified crop advisor if
 you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting
 and uses historical information related to herbicide use and crop rotation, and that
 considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding
 rates; precision fertilizer application method and timing to favor the crop and not the
 weeds), biological (weed-competitive crops or varieties) and other management
 practices.
- Fields should be scouted prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective. Fields should be scouted after application to verify that the treatment was effective. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method, for example hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management strategies for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Valent U.S.A. LLC at 800-89-VALENT (898-2536).

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PRODUCT INFORMATION

V-10452 3.04 SC Herbicide is a preemergence and early postemergence herbicide for control of selected grass and broadleaf weeds in and around ornamental woody shrubs, deciduous trees and conifers (including Christmas trees) grown outdoors in field nurseries or ornamental landscapes, and to maintain bare ground in ornamental use sites.

V-10452 3.04 SC Herbicide may cause defoliation or leaf spotting if the spray solution directly contacts actively growing plant foliage or green bark. Leaves that receive indirect (drift) spray contact may be affected in a similar manner. Translocation of V-10452 3.04 SC Herbicide is limited, and under most conditions established and vigorously growing woody ornamentals will rapidly outgrow any injury symptoms. However, direct application to actively growing foliage can cause severe injury or death with sensitive ornamental plant species, especially in herbaceous bedding plants and flowers.

Rainfastness

V-10452 3.04 SC Herbicide is rainfast one hour after application. **DO NOT** apply V-10452 3.04 SC Herbicide if rain is expected within one hour of application or postemergence efficacy may be reduced.

Soil Characteristics

Application of V-10452 3.04 SC Herbicide to soils with high organic matter and/or high clay content may require higher dosages than soils with low organic matter and/or low clay content. Application to cloddy seedbeds can result in reduced weed control.

Tank Mixes

Read tank mix product label for rates and weeds controlled. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

IMPORTANT: When applied as directed, plants listed on this label have shown tolerance to V-10452 3.04 SC Herbicide. However, V-10452 3.04 SC Herbicide is an active herbicide and the user must exercise responsible judgment and caution until familiarity is gained with this product. Due to variability within species, crop growth stage, environmental conditions, cultural practices and application techniques, it is advised that users test this product under local growing conditions on a small number of plants and evaluate for 4 to 6 weeks for phytotoxicity. Testing V-10452 3.04 SC Herbicide on a small number of plants will help determine if the herbicide can be used safely for commercial scale application.

Weeds controlled or suppressed by V-10452 3.04 SC Herbicide are listed in Table 2, Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide.

Table 1, V-10452 3.04 SC Herbicide Rate Summary

fl oz of V-10452 3.04 SC Herbicide	Pounds of flumioxazin	Pounds of pyroxasulfone	
9.0	0.094	0.120	
12.0	0.128	0.160	
16.0	0.167	0.213	
20.0	0.209	0.267	

USE RESTRICTIONS (Applicable to all uses [on this [sub-][label])

- **DO NOT** apply more than 20 fl oz (0.209 lb flumioxazin and 0.267 lb pyroxasulfone) of V-10452 3.04 SC Herbicide per acre per year.
- DO NOT apply more than 1 application per acre per year.
- DO NOT apply by air.
- **DO NOT** rotate to food or feed crops after application to bare ground on non-crop areas.
- DO NOT apply in enclosed greenhouse structures.
- DO NOT apply when weather conditions favor spray drift from treated areas.
- DO NOT incorporate into soil after application.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply to turfgrass.
- DO NOT apply to areas with adjacent non-dormant pome or stone fruit crops.
- **DO NOT** apply when plants are under stress from insects, diseases, animals, winter injury, planting shock, or any other stresses.
- DO NOT apply to, or allow drift onto, herbaceous annual or perennial ornamental plants.
- **DO NOT** plant herbaceous or annual or perennial plants in treated area for at least 60 days after application.
- **DO NOT** apply to nursery seed beds, rooted cuttings, or young plants in liners.
- **DO NOT** apply to bulb crops, budded grafts, or graft unions.
- **DO NOT** harvest fruit, nuts, or berries within one year after application.

USE PRECAUTIONS

- Treatment of powdery, dry soil or light sandy soil, when there is little to no likelihood of rainfall soon after may result in off target movement and possible damage to actively growing susceptible crops when soil particles are moved by wind or water.
- Avoid walking through treated areas onto adjacent turfgrass until sprays have dried.

APPLICATION INFORMATION

SPRAYER PREPARATION

Before applying V-10452 3.04 SC Herbicide, start with clean, well maintained application equipment. The spray tank, as well as all hoses and booms, must be cleaned to ensure no residue from the previous spraying operation remains in the sprayer. Some pesticides, including but not limited to, the sulfonylurea and phenoxy herbicides, are active at very small amounts and can cause crop injury when applied to susceptible crops. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply V-10452 3.04 SC Herbicide. Follow the most restrictive cleanup procedure if two or more products were tank mixed prior to V-10452 3.04 SC Herbicide application.

MIXING INSTRUCTIONS

- 1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
- 2. If a drift retardant is to be used, add 10 lb of spray grade ammonium sulfate per 100 gallons of spray solution, unless prohibited by the tank mix partner.
- 3. While agitating, slowly add V-10452 3.04 SC Herbicide to the spray tank. Agitation creates a rippling or rolling action on the water surface.
- 4. If tank mixing V-10452 3.04 SC Herbicide with other labeled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
- 5. Add any required adjuvants.
- 6. Fill spray tank to desired level with water. **Continue agitation until all spray solution has been applied**.
- 7. Mix only the amount of spray solution that can be applied the day of mixing.

APPLICATION METHOD

Apply V-10452 3.04 SC Herbicide by ground using sprayers equipped with spray nozzles designed to deliver the desired spray pressure and spray volume. Application equipment must be clean and in good repair. Ensure nozzles are uniformly spaced on boom and frequently checked for accuracy.

PREEMERGENCE APPLICATION

Preemergence weed control with V-10452 3.04 SC Herbicide is most effective when applied to clean, weed free soil surfaces prior to weed emergence. Moisture is necessary to activate V-10452 3.04 SC Herbicide on soil for residual weed control. Dry weather following application of V-10452 3.04 SC Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, V-10452 3.04 SC Herbicide will control susceptible germinating weeds.

When adequate moisture is not received soon after applying V-10452 3.04 SC Herbicide to soil, weed control may be improved by utilizing shallow cultivation. If weeds begin to emerge, irrigate (0.5" of water) or cultivate uniformly with shallow tillage equipment that will not damage the crop. Deep cultivation reduces the effectiveness of V-10452 3.04 SC Herbicide and must be avoided.

POSTEMERGENCE APPLICATION

The most effective postemergence weed control with V-10452 3.04 SC Herbicide occurs when applied in combination with a surfactant to weeds less than 2 inches in height. Apply V-10452 3.04 SC Herbicide only to actively growing weeds. Applying V-10452 3.04 SC Herbicide under conditions that do not promote active weed growth will reduce effectiveness. V-10452 3.04 SC Herbicide is most effective when applied under sunny conditions at temperatures above 65°F.

BAND APPLICATION

When applying as a banded application, use proportionately less water and V-10452 3.04 SC Herbicide per acre.

BACKPACK APPLICATION

When applying V-10452 3.04 SC Herbicide with a backpack sprayer calibrate sprayer to deliver 1 gallon of spray solution per 500 to 1,000 sq ft.

For Backpack Application of V-10452 3.04 SC Herbicide

Application Volume	Amount of V-10452 3.04 SC Herbicide to mix in 1 gallon of water	Amount of V-10452 3.04 SC Herbicide to mix in 2 gallons of water	Amount of V-10452 3.04 SC Herbicide to mix in 3 gallons of water
1 gallon per 500 sq ft (=87 GPA)	1.4 tsp	2.8 tsp	4.2 tsp
1 gallon per 750 sq ft (=58 GPA)	2.1 tsp	4.2 tsp	6.3 tsp
1 gallon per 1,000 sq ft (=43.5 GPA)	2.8 tsp	5.6 tsp	8.4 tsp

Example: Applicator wants to spray 1 gallon of V-10452 3.04 SC Herbicide solution per 1,000 sq ft of ground and wants to treat 2,000 sq ft of ground. Therefore, use 5.6 teaspoons of V-10452 3.04 SC Herbicide in 2 gallons of water and apply to 2,000 sq ft of ground.

PREEMERGENCE APPLICATION

To ensure uniform coverage when using boom sprayers, apply at least 10 gallons of spray solution per acre. When making backpack applications, apply 1-2 gallons of spray solution per 1,000 sq ft. Select nozzles that meet manufacturer's gallonage and pressure specification for preemergence herbicide application.

POSTEMERGENCE APPLICATION

To ensure uniform coverage when using boom sprayers, apply at least 15 gallons of spray solution per acre. Increase volume to at least 20 gallons per acre if dense vegetation or heavy residue is present on the soil surface. When applying with a backpack sprayer, apply 1-2 gallons of spray solution per 1,000 sq ft. Select nozzles that meet manufacturer's gallonage and pressure specification for postemergence herbicide application.

Higher gallonage applications generally afford more consistent weed control. **DO NOT** exceed the nozzle manufacturer's specified pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

ADJUVANTS AND ADDITIVES

When an adjuvant is to be used with this product, use a Chemical Producers and Distributors Association certified adjuvant. Mix V-10452 3.04 SC Herbicide with a crop oil concentrate that contains at least 15% emulsifiers and 80% oil or a non-ionic surfactant containing at least 80% active ingredient when applying V-10452 3.04 SC Herbicide as part of a postemergence weed control program. Verify the mixing compatibility by a jar test before using.

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

Mix V-10452 3.04 SC Herbicide with a non-ionic surfactant containing at least 80% active ingredient when applying V-10452 3.04 SC Herbicide as part of a postemergence weed control program. Verify the mixing compatibility by a jar test before using.

When tank mixing with other herbicides, refer to tank mix partner's label for adjuvant specification. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements,

JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND V-10452 3.04 SC HERBICIDE

When using V-10452 3.04 SC Herbicide and an adjuvant, perform a jar test before mixing commercial quantities of V-10452 3.04 SC Herbicide, when using V-10452 3.04 SC Herbicide for the first time, when using new adjuvants or when a new water source is being used.

- 1. Add 1 pt of the water to a quart jar. Use water from the same source and temperature as which will be used in the spray tank mixing operation.
- 2. Add 2 ml of V-10452 3.04 SC Herbicide to the quart jar for every 6 fl oz of V-10452 3.04 SC Herbicide per acre being applied (1 ml if 6 fl oz/A is the desired V-10452 3.04 SC Herbicide rate), gently mix until product goes into suspension.
- 3. Add 60 ml (4 Tbsp or 2 fl oz) of the crop oil or methylated seed oil to the quart jar or 1 ml of non-ionic surfactant if it is being used in place of oil, gently mix.
- 4. If nitrogen is being used, add 16 ml (1 Tbsp or 0.5 oz) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 g AMS to the quart jar in place of the 28 to 32% nitrogen.
- 5. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
- 6. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed question the choice of adjuvant:
 - a) Layer of oil or globules on the mixture's surface.
 - b) Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
 - c) Clabbering: thickening texture (coagulated) like gelatin.

MANDATORY SPRAY DRIFT MANAGEMENT

Ground Boom Applications

- Apply with the nozzle height specified by the manufacturer, but no more than 3 feet above the ground or crop canopy. For all other ground applications, the nozzle must be no more than 3 feet from the target vegetation.
- Applicators must elect nozzle and pressure that deliver Medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site unless using a shielded sprayer.
- DO NOT apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray
 drift. Use the highest practical spray volume for the application. If a greater spray volume is
 needed, consider using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure specified for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

BOOM HEIGHT

For ground equipment, the boom must remain level with the crop and have minimal bounce.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Boom-less Ground Applications: Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications: Take precautions to minimize spray drift.

Adjuvants and Drift Control Additives: Refer to tank mix partner's label for adjuvant specifications. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

SPRAYER CLEANUP

unless using dedicated herbicide spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following V-10452 3.04 SC Herbicide application. After V-10452 3.04 SC Herbicide is applied, the following steps must be used to clean the spray equipment:

- Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
- Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
- Top off tank, add 1 gallon of 3% household ammonia (or equivalent) for every 100 gallons of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes. If diaphragms are being used on the spray boom, loosen diaphragms before flushing the spray system, allowing cleaning solution to spray through the open diaphragm. If spray lines have any end caps, they must be loosened before flushing the system, allowing cleaning solution to spray though the loosened caps. To enhance removal of V-10452 3.04 SC Herbicide from the spray system, add a tank cleaner including "Valent Tank Cleaner", in place of ammonia and allow the cleaning solution to remain in the pressurized spray system (spray tank, hoses and boom) for 8 hours before flushing the system for a minimum of 15 minutes.
- Drain tank completely.
- Add enough clean water to the spray tank to allow all hoses, booms, screens and nozzles to be flushed for 2 minutes.
- Remove all nozzles and screens and rinse them in clean water.

Thoroughly clean the spray equipment, including all tanks, hoses, booms, screens, and nozzles, before it is used to apply postemergence pesticides. Equipment with V-10452 3.04 SC Herbicide residue remaining in the system may result in crop injury to the subsequently treated crop.

Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

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BROADLEAF WEED SPECIES			
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Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

Common Name	Scientific Name	C = Control S = Suppression
BROADLEAF WEED SPECIES		
Morningglorry		
Entireleaf	Ipomoea hederacea var. integriuscula	С
lvyleaf	Ipomoea hederacea	C
Red/Scarlet	Ipomoea coccinea	C
Smallflower	Jacquemontia tamnifolia	C
Tall	Ipomoea purpurea	C
Moss		
	Bryum spp.	С
Mustard	Cia wash ni was a ttia sina was	T 0
Tumble	Sisymbrium altissimum	C
Wild	Brassica kaber	С
Nightshade	101	-
Black	Solanum nigrum	C
Eastern Black	Solanum ptycanthum	С
Hairy	Solanum sarrachoides	С
Parsely, Marsh	Apium leptophyllum	С
Parsley-Piert	Alchemilla arvensis	С
Pearlwort, Birdseye*	Sagina procumbens	С
Pennycress, Field	Thlaspi arvense	С
Phyllanthus, Longstalked	Phyllanthus tenellus	С
Pigweed		
Palmer Amaranth	Amaranthus palmeri	С
Redroot	Amaranthus retroflexus	С
Smooth	Amaranthus hybridus	С
Spiny Amaranth	Amaranthus spinosus	С
Tumble	Amaranthus albus	С
Pineapple-weed*	Matricaria matricarioides	S
Plantain		
Broadleaf*	Plantago major	С
Buckhorn*	Plantago lanceolate	С
Prickly Lettuce	Latuca serriola	С
Poinsettia, Wild	Euphorbia heterophylla	C
Puncturevine	Tribulus terrestris	C
Purslane, Common	Portulaca oleracea	C
Pusley, Florida	Richardia scabra	C
Radish, Wild	Raphanus raphanistrum	C
Ragweed	pa apriamos am	<u> </u>
Common	Ambrosia artemisiifolia	С
Giant	Ambrosia arternisirioria Ambrosia trifida	S
Redmaids	Calandrinia ciliata var menziessii	C

Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

Common Name	Scientific Name	C = Control
		S = Suppression
BROADLEAF WEED SPECIE	S	
Redweed	Melochia corchorifolia	С
Rocket, Yellow	Barbarea vulgaris	С
Senna, Coffee	Cassia occidentalis	С
Sesbania, Hemp	Sesbania exaltata	С
Shepherd's-purse	Capsella bursa-pastoris	С
Sida, Prickly (Teaweed)	Sida spinose	С
Smartweed		
Ladysthumb	Polygonum persicaria	S
Pennsylvania	Polygonum pensylvanicum	S
Sowthistle, Annual	Sonchus oleraceus	С
Spiderwort, Tropical	Commelina benghalensis	С
Spurge		•
Petty	Euphorbia peplus	С
Prostrate	Euphorbia humistrata Engelm	С
Spotted	Euphorbia maculate	С
Starbur, Bristly	Acanthospermum hispidum	S
Thistle, Russian	Salsola iberica	С
Tree, Groundsel	Baccharis halimifolia	С
Velvetleaf	Abutilon theophrasti	С
Waterhemp		
Common	Amaranthus rudis	С
Tall	Amaranthus tuberculatus	С
Weed, Mulberry	Fatuoa villosa	С
Willowherb, Northern	Epilobium cillatum	С
Woodsorrel, Yellow*	Oxalis stricta	С
Wormwood, Biennial	Artemisia biennis	S
Yellowcress, Marsh	Rorippa islandica	С
GRASS WEED SPECIES		
Barnyardgrass*	Echinochloa crus-galli	С
Bluegrass, Annual	Poa annua	C
Brome, Downy	Bromus tectorum	C
Cheat*	Bromus secalinus	C
Crabgrass		
Large*	Digitaria sanguinalis	С
Smooth*	Digitaria ischaemum	C
Southern*	Digitaria ciliaris	C

Table 2. Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide

Common Name	Scientific Name	C = Control S = Suppression	
BROADLEAF WEED SPECIES			
Cupgrass, Southwestern*	Eriochloa gracilis	С	
Foxtail			
Bristly*	Setaria verticillate	С	
Giant*	Setaria faberi	С	
Green*	Setaria viridis	С	
Yellow*	Setaria glauca	С	
Goosegrass*	Eleusine indica	С	
Johnsongrass* (seedling)	Sorghum halepense	С	
Lovegrass, California*	Eragrostis diffusa	С	
Panicum			
Fall*	Panicum dichotomiflorum	С	
Texas*	Panicum texanum	С	
Rice, Red*	Oryza sativa	С	
Ryegrass			
Italian*	Lolium multiflorum	С	
Rigid*	Lolium rigidum	С	
Signalgrass, Broadleaf*	Brachiaria platyphylla	С	

^{*}Pre-emergence control only

DIRECTIONS FOR USE IN ESTABLISHED CONTAINER AND FIELD GROWN CONIFERS (INCLUDING CHRISTMAS TREES)

Apply V-10452 3.04 SC Herbicide to established container and field grown conifers, which includes applications to Christmas tree plantations. During periods of cool, cloudy weather, use caution to ensure conifers have hardened off prior to herbicide application. **DO NOT** apply to conifers within 1 year of seedling emergence.

PREEMERGENCE APPLICATION

Apply 20 fl oz of V-10452 3.04 SC Herbicide per broadcast acre before weeds emerge. Apply to weed free, established conifers grown in containers or in the field (in ground). If possible, irrigate treated area with 0.5 to 0.75 inch of water immediately following application. V-10452 3.04 SC Herbicide may be sprayed directly over conifers listed in Table 3, *Tolerant Conifers*, provided bud break has not occurred or plants are hardened off. Needle burn may be observed on new flush if plants are actively growing at time of application. However, V-10452 3.04 SC Herbicide will typically not affect subsequent growth. If conifers are not dormant or hardened off at the time of application, and foliar injury cannot be tolerated, apply V-10452 3.04 SC Herbicide as a directed spray to the soil and minimize direct contact or drift of sprays onto foliage. When applied before weed germination, V-10452 3.04 SC Herbicide will control broadleaf weeds and grasses listed in Table 2, *Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide*.

POSTEMERGENCE APPLICATION

Apply 20 fl oz of V-10452 3.04 SC Herbicide per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant) after weeds have emerged. Spray V-10452 3.04 SC Herbicide directly over conifers listed in Table 3, *Tolerant Conifers*, provided bud break has not occurred or plants are hardened off. Needle burn may be observed on new flush if plants are actively growing at time of application. However, V-10452 3.04 SC Herbicide will typically not affect subsequent growth. If conifers are not dormant or hardened off at the time of application, and foliar injury cannot be tolerated, apply V-10452 3.04 SC Herbicide as a directed spray and minimize direct contact or drift of sprays onto foliage.

If applied when weeds are actively growing and no larger than 2 inches in height, V-10452 3.04 SC Herbicide will provide postemergence control of broadleaf weeds and grasses listed in Table 2, Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide. Postemergence control of V-10452 3.04 SC Herbicide may be more effective with certain weed species, and may not control mature, stressed, or hardened off weeds that are not actively growing at the time of application.

IMPORTANT: Completely read and follow the label of any potential V-10452 3.04 SC Herbicide tank mix partner. When tank mixing V-10452 3.04 SC Herbicide with other herbicides, always follow the most restrictive label limitations and precautions on the label of any tank mix partner.

TOLERANT CONIFERS

Established conifers listed in Table 3, *Tolerant Conifers* have exhibited tolerance to V-10452 3.04 SC Herbicide but tolerance has not been evaluated on all varieties/cultivars or under all possible environmental conditions and cultural practices. The tolerance of conifers listed in Table 3, *Tolerant Conifers* has also not been evaluated with all possible tank mixtures or sequential application of V-10452 3.04 SC Herbicide and other products. Growers must not apply V-10452 3.04 SC Herbicide to conifers at a commercial scale until first testing a small number of representative plants for tolerance to V-10452 3.04 SC Herbicide under local growing practices and environmental conditions. Monitor tested plants for four to six weeks for symptoms of possible injury or other effects. Testing V-10452 3.04 SC Herbicide on a small number of plants will help grower determine if V-10452 3.04 SC Herbicide can be used safely on a commercial scale.

TABLE 3. TOLERANT CONIFERS

COMMON NAME	SCIENTIFIC NAME
Arborvitae	
American	Thuja occidentalis
Oriental	Thuja orientalis
Fir	
Concolor	Abies concolor
Cork Bark	Abies lasiocarpa
Douglas	Pseudotsuga menzesii
Fraser	Abies fraseri
Grand	Abies grandis
Noble	Abies procera
Turkish	Abies bommuelleriana
Hemlock	
Eastern	Tsuga canadensis
Western	Tsuga heterophylla
Juniper	
Blue Star	Juniperus scopularum
Creeping	Juniperus horizontalis
Japanese Garden	Juniperus chinensis
Tamarix	Juniperus sabina
Pine	
Austrian	Pinus nigra
Eastern White	Pinus strobus
Jack	Pinus banksiana
Japanese Black	Pinus thunbergiana
Loblolly	Pinus taeda
Lodgepole	Pinus contorta
Longleaf	Pinus palustris
Mugo	Pinus mugo
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
Yew	
English	Taxus baccata
Japanese	Taxus cuspidata

DIRECTIONS FOR USE IN CONTAINER AND FIELD GROWN DECIDUOUS TREES AND NON-BEARING FRUIT AND NON-BEARING NUT TREES

Apply V-10452 3.04 SC Herbicide as a directed spray at the base of container and field grown deciduous trees with an established root system. The deciduous trees listed in Table 4, *Tolerant Deciduous Tree Species* have exhibited tolerance to V-10452 3.04 SC Herbicide only when applied to the soil and base of plants. Application of V-10452 3.04 SC Herbicide over the top of deciduous foliage or green bark may result in unacceptable injury.

Apply V-10452 3.04 SC Herbicide to established (or transplanted) container and field grown deciduous trees. **DO NOT** apply to trees that are less than 1 year old or have been transplanted less than one year, unless completely protected by non-porous wraps, grow tubes, waxed protectors or other forms of protection to young foliage and/or bark. **DO NOT** harvest fruit or nuts from treated trees within one year of application.

IMPORTANT: Direct application of V-10452 3.04 SC Herbicide to the soil surface and away from plant foliage and bark. Avoid direct spray contact on plant surfaces, foliage and green bark or injury may result. Application of V-10452 3.04 SC Herbicide after bud swell may cause injury if herbicide contacts foliage. Avoid application under environmental conditions that favor drift to non-targeted areas.

PREEMERGENCE APPLICATION

Apply 20 fl oz of V-10452 3.04 SC Herbicide per broadcast acre as a preemergence (to weed emergence) application. Apply V-10452 3.04 SC Herbicide to weed free soil around at base of deciduous trees grown in containers or in the field (in-ground). If possible, irrigate the treated area with 0.5 to 0.75 inch of water immediately following application. V-10452 3.04 SC Herbicide may be applied to the soil surface and base of deciduous trees, provided that direct and indirect (drift) applications to plant foliage, flowers and green bark does not occur. Mechanically incorporating V-10452 3.04 SC Herbicide will disturb soil surfaces, which may reduce herbicidal efficacy. The use of spray shields that limit exposure of foliage and bark to V-10452 3.04 SC Herbicide is suggested. When applied before weed germination, V-10452 3.04 SC Herbicide will control broadleaf and grassy weeds listed in Table 2, Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide.

POSTEMERGENCE APPLICATION

Apply 20 fl oz of V-10452 3.04 SC Herbicide per broadcast acre plus an adjuvant (0.25% v/v nonionic surfactant). Make postemergence (to weed emergence) applications V-10452 3.04 SC Herbicide when weeds are actively growing and are no larger than 2 inches in height. The addition of a surfactant enhances V-10452 3.04 SC Herbicide activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of V-10452 3.04 SC Herbicide. When applied after weed germination, V-10452 3.04 SC Herbicide will provide preemergence and postemergence control of broadleaf weeds and grasses listed in Table 2, Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide. If plant injury is a concern, use a spray shield to limit the exposure of trees to V-10452 3.04 SC Herbicide.

Postemergence control may be more effective with certain weed species, and may not control mature, stressed, or hardened off weeds that are not actively growing at the time of application.

IMPORTANT: Completely read and follow the label of any herbicides mixed with V-10452 3.04 SC Herbicide. When tank mixing V-10452 3.04 SC Herbicide with other herbicides always follow the most restrictive limitations and precautions on the label of any tank mix partner.

TOLERANT DECIDUOUS TREES. NON-BEARING FRUIT AND NON-BEARING NUT TREES

Established deciduous trees listed in Table 4, *Tolerant Deciduous Tree Species* have exhibited tolerance to V-10452 3.04 SC Herbicide but tolerance has not been evaluated on all varieties/cultivars or under all possible environmental conditions or cultural practices. The tolerance of deciduous trees listed in Table 4, *Tolerant Deciduous Tree Species* has also not been evaluated with all possible tank mixtures or sequential application of V-10452 3.04 SC Herbicide and other products. Growers must not apply V-10452 3.04 SC Herbicide to deciduous trees at a commercial scale until first testing a small number of representative plants for tolerance to V-10452 3.04 SC Herbicide under local growing practices and environmental conditions. Monitor tested plants for four to six weeks for symptoms of possible injury or other effects. Testing V-10452 3.04 SC Herbicide on a small number of plants will help grower determine if V-10452 3.04 SC Herbicide can be used safely on a commercial scale.

TABLE 4. TOLERANT DECIDUOUS TREE SPECIES

SCIENTIFIC NAME	
Prunus spp.	
Fraxinus spp.	
Betula spp.	
Aesculus spp.	
Prunus spp.	
Castanea spp.	
Citrus spp.	
Cornus spp.	
Eucalyptus spp.	
Ginkgo spp.	
Crataegus spp	
Gleditsia spp.	
Larix spp.	
Syringa spp.	
Acer spp.	
Lagerstroemia indica	
Quercus spp.	
Populus spp.	
Prunus spp.	
Prunus spp.	
Carya spp.	
Cercis Canadensis	
Liquidambar styraciflua	
Platanus spp.	
Juglans nigra	
Salix spp.	

^{*}Non-bearing trees only.

^{**}Not for use on maple trees used for production of maple sap or syrup.

DIRECTIONS FOR USE AROUND ESTABLISHED WOODY LANDSCAPE ORNAMENTALS

Apply V-10452 3.04 SC Herbicide as a directed spray to control weeds around the base of established woody ornamental plants in residential, commercial, recreational, and municipal landscapes including apartment complexes, condominiums, golf courses, office complexes, parks, parking areas, recreational sites, schools, and similar sites. Application of V-10452 3.04 SC Herbicide to ornamental plants is limited to directed sprays around well-established woody shrubs and trees such as azalea, euonymus, holly, and the conifers and deciduous trees listed in Tables 3 and 4. V-10452 3.04 SC Herbicide must only be applied by commercial licensed applicators. **DO NOT** apply V-10452 3.04 SC Herbicide within any enclosed structure.

V-10452 3.04 SC Herbicide provides residual and early postemergence control of susceptible grasses and broadleaf weeds, as well as additional mode of action to assist in the control of resistant weeds. The length of residual control is dependent on the rate applied, rainfall and temperature. Length of residual control will decrease as temperature and precipitation increase.

IMPORTANT: Contact of actively growing foliage with V-10452 3.04 SC Herbicide spray or spray drift may cause death of new growth, defoliation and/or leaf necrosis in trees and woody shrubs, and may kill herbaceous ornamental plant species including annual bedding plants or direct seeded annuals. Therefore, **DO NOT** apply V-10452 3.04 SC Herbicide over the top of ornamental plants growing in the landscape, and **DO NOT** allow V-10452 3.04 SC Herbicide spray to contact, drift or splash from soil onto the foliage, green stems, exposed roots or fruit of desirable plants. Avoid application of V-10452 3.04 SC Herbicide under conditions that favor drift of sprays onto desired ornamentals or turfgrass. Use spray shields that limit the plant exposure to V-10452 3.04 SC Herbicide when applying V-10452 3.04 SC Herbicide near desirable plants. Note: V-10452 3.04 SC Herbicide is not systemic and if accidentally applied to actively growing foliage of established woody shrubs, plants will typically outgrow injury.

DO NOT apply V-10452 3.04 SC Herbicide to landscape ornamentals until plants have been actively growing for at least 60 days after transplanting, or for at least 60 days before ornamentals will be planted into treated areas.

PREEMERGENCE APPLICATION (NO WEEDS ARE PRESENT)

Apply 20 fl oz of V-10452 3.04 SC Herbicide per broadcast acre. Mix 1.4-2.8 tsp of V-10452 3.04 SC Herbicide per gallon of water, and apply 1 gallon of the resulting spray solution to 500-1,000 sq ft of landscape prior to weed germination (see calibration table for backpack sprayers). Apply V-10452 3.04 SC Herbicide to weed free soil, mulch or gravel surfaces. Moisture is necessary to activate V-10452 3.04 SC Herbicide on soil for residual weed control. When applied before weed germination, V-10452 3.04 SC Herbicide will control the broadleaf weeds and grasses listed in Table 2, Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide.

Established landscape ornamentals have shown tolerance to V-10452 3.04 SC Herbicide **only** when applied to the soil at the base of the plant. For maximum plant safety when using around desirable ornamentals, direct applications of V-10452 3.04 SC Herbicide to the soil and leave a sufficient untreated buffer to ensure spray solution does not contact desired plants.

POSTEMERGENCE APPLICATION (WEEDS ARE PRESENT)

Mix 1.4-2.8 tsp of V-10452 3.04 SC Herbicide per gallon of water, and apply 1 gallon of the resulting spray solution per 500-1,000 sq ft of landscape (see calibration chart for backpack sprayers). Tank mixing V-10452 3.04 SC Herbicide with glyphosate or glufosinate will increase the spectrum of postemergence weed control over V-10452 3.04 SC Herbicide alone, provide faster postemergence weed control than glyphosate or glufosinate alone, and provide pre and postemergence control of the broadleaf weeds and grasses listed in Table 2, *Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide*.

Established landscape ornamentals have shown tolerance to applications of V-10452 3.04 SC Herbicide plus glyphosate or glufosinate **only** when applied to the soil at the base of the plant, and spray does not directly contact or drift onto desirable plants. For maximum plant safety when using around desirable ornamentals, direct applications of V-10452 3.04 SC Herbicide plus glyphosate or glufosinate towards the soil and leave a sufficient non-treated buffer to ensure spray solution does not contact desired plants.

IMPORTANT: When tank mixing V-10452 3.04 SC Herbicide with other products, always follow the most restrictive use conditions on either label.

DIRECTIONS FOR USE TO MAINTAIN BARE GROUND IN NON-CROP AREAS, IN ORNAMENTAL NURSERIES AND ORNAMENTAL LANDSCAPES

V-10452 3.04 SC Herbicide, when used as directed, can be used for non-selective vegetation control to maintain bare ground non-crop areas that must be kept weed-free. Apply V-10452 3.04 SC Herbicide to sites including:

- Bare ground areas in and around buildings and other structures
- Bare ground areas along fence rows
- Gravel surfaces and driveways
- Ground matting and gravel pads prior to the addition of containerized plants

IMPORTANT: Follow all applicable directions as outlined above under General Information. See Table 2, *Weeds Controlled or Suppressed by Residual Activity of V-10452 3.04 SC Herbicide* for a list of grasses and broadleaf weeds controlled by V-10452 3.04 SC Herbicide.

V-10452 3.04 SC Herbicide offers residual and early postemergence control of susceptible broadleaf and grass weeds as well as an additional mode of action to assist in the control of weeds resistant to other modes of action. V-10452 3.04 SC Herbicide can be tank mixed with the herbicides listed in Table 4, *Tolerant Deciduous Trees Species* for increased residual or postemergence control. The length of residual control is dependent on the rate applied as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase.

PREEMERGENCE APPLICATION

Apply 20 fl oz of V-10452 3.04 SC Herbicide per broadcast acre as a preemergence application. Make the preemergence (to weed emergence) applications of V-10452 3.04 SC Herbicide to a weed-free soil surface. Preemergence applications of V-10452 3.04 SC Herbicide must be completed prior to weed emergence. Moisture is necessary to activate V-10452 3.04 SC Herbicide on soil for residual weed control. Dry weather following application of V-10452 3.04 SC Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, V-10452 3.04 SC Herbicide will control susceptible germinating weeds.

POSTEMERGENCE APPLICATION

Apply 20 fl oz of V-10452 3.04 SC Herbicide per broadcast acre plus an adjuvant (0.25% v/v nonionic surfactant). The addition of an adjuvant enhances V-10452 3.04 SC Herbicide activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of V-10452 3.04 SC Herbicide. Emerged weeds are controlled postemergence with V-10452 3.04 SC Herbicide, however, translocation of V-10452 3.04 SC Herbicide within a weed is limited, and control is affected by spray coverage and by the addition of an adjuvant. The most effective postemergence weed control with V-10452 3.04 SC Herbicide occurs when applied in combination with a surfactant to weeds less than 2 inches in height. Use a tank mix partner in combination with V-10452 3.04 SC Herbicide for the postemergence control of weeds larger than 2 inches. Some tank mix partners are listed in Table 5, Suggested Tank Mix Combinations for Non-Selective Vegetation Control.

IMPORTANT: Completely read and follow the label of any potential tank mix partner with V-10452 3.04 SC Herbicide. When using tank mixtures, use conditions must be in accordance with the most restrictive of the label limitations and precautions on either herbicide label.

Table 5 Tank Mix Combinations For Non-Selective Vegetation Control

clethodim	glufosinate	prodiamine
glyphosate	pendimethalin	simazine

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage, disposal, or cleaning of equipment.

STORAGE

Keep pesticide in original container.

Store in a cool, dry, secure place.

DO NOT put formulation or dilute spray solution into food or drink containers.

DO NOT contaminate food or foodstuffs.

DO NOT store or transport near feed or food.

Not for use or storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night (800) 892-0099.

PESTICIDE DISPOSAL

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

CONTAINER HANDLING

[Use the following statement for containers equal to or less than 5 gallons]

[Nonrefillable container. **DO NOT** reuse or refill this container. Clean container promptly after emptying. Triple rinse container (or equivalent) 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or other procedures allowed by State and local authorities.]

[Use the following statement for rigid nonrefillable containers greater than 5 gallons] [Nonrefillable 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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or other procedures allowed by State and local authorities.]

[Use the following statement for all formulation types/all refillable container types] [Refillable container. Refill this container with pesticide only. DO NOT reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or other procedures allowed by state and local authorities.]

[NOTES TO REVIEWER:]

[Making the product more restrictive than Federally accepted by incorporating the optional statement "Not registered for use in California." may be undertaken on the container label for any use, weed or crop as determined to be necessary to procure CADPR registration.]
[If this product is marketed or distributed by a third party, their logo and Warranty statement will be included on the label.]

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Valent Tank Cleaner is a product of Valent U.S.A. LLC

Manufactured for: Valent U.S.A. LLC P.O. Box 5075 San Ramon CA 94583

Made in U.S.A.

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