

This bulletin provides insights into the most effective and efficient ways to use the Velpar[®] product line in your herbicide program.

VELPAR is a Group 5 pre-emergence herbicide used in alfalfa, blueberry and sugarcane.

Active Ingredients

Velpar [®]	75% hexazinone (Group 5)
Velpar [®] AlfaMax [™]	35.3% hexazinone (Group 5) + 42.4% diruon (Group 7)
Velpar [®] AlfaMax [™] Gold	23.1% hexazinone (Group 5) + 55.4% diruon (Group 7)

VELPAR provides Long-lasting weed control —

Easy on the Plant and Provides Broad-Spectrum Control with Versatile Timing.

Herbicidal efficacy with VELPAR is linked to weed size, pre-application soil moisture, post application rain events, temperatures and sunlight.

A two-year crop rotation is required on most crops. Corn or root crops can follow in 12 months with 18 inches of moisture and 2 pints or less of VELPAR applied.

To download the label, the SDS or for more information, visit our website at novasource.com.

VELPAR Frequently Asked Questions

Q: I've missed the optimal timing for applying VELPAR to control weeds and grasses and my new alfalfa growth exceeds two inches. What can I do to manage this situation?

A: You can increase rates, tank mix with other labeled herbicides, add NIS or MSO, or irrigate, if necessary, to incorporate the product.

The addition of paraquat to the tank mix, per label instructions, will do two things:

- 1) burn back new growth of alfalfa and prevent the translocation of VELPAR, and
- 2) aid in control of large downy brome or other difficult to control weeds.

Q: What is the minimum taproot size for safe and effective use of VELPAR?

A: Taproot size should be a minimum of 8 inches, or the length and girth of a pencil, throughout the entire field.

Q: What is minimum amount of water necessary to incorporate VELPAR?

A: Incorporation by irrigation or rain is critical to the success of the product. Ideally, incorporation is effective with a minimum of one-half inch of water, preferably at one time.

Generally, 1-2 larger accumulations will be more effective than many small, widely spaced incorporation events.

Q: When is VELPAR most effective?

A: VELPAR is most effective under conditions of high light intensity and moist soil.

Q: What are the key weeds that VELPAR controls?

A: VELPAR performs well on weeds such as: Tansy Mustard, Shepherd's Purse, downy brome, common groundsel, redroot pigweed and dandelion.

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Agricultural Herbicide

Velpar[®] AlfaMax[™] Gold
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Q: Are there weeds that are becoming more difficult to control regionally?

A: Yes. In some regions, higher rates and/or the addition of paraquat or other labeled products may be necessary to extend control.

Examples:

- Shepherd's Purse (PNW) may require higher rates or the addition of a tank mix partner.
- Large downy brome may require the addition of paraquat.
- Henbit may require the addition of 4-5 ounces of Sinbar[®] to improve control.
- Groundsel in California is better controlled in full sunlight.

Q: What are the advantages of VELPAR AlfaMax and VELPAR AlfaMax Gold?

A: VELPAR ALFAMAX and VELPAR ALFAMAX GOLD contain different rates of less soluble diuron, which extends control and provides longer protection.

Q: How do I minimize damage while maximizing control of my alfalfa crop with VELPAR?

A: Variables that maximize control and minimize crop injury include crop stage of growth, soil type (OM, CEC), correct use rate, taproot size, temperature and sunlight. Application in sandy soil (low CEC) and hot weather will increase phytotoxicity potential.

Q: Can I chemigate VELPAR?

A: Yes. Chemigating VELPAR is effective. Application can be made after a cutting, prior to new growth.

Avoid high temperatures when making application. Making an application when daily temperatures are forecast to be in the mid-to-high 90 degree temperature range within 3 to 5 days after treatment may increase the potential for crop injury.

Q: Can VELPAR be impregnated on dry bulk fertilizer?

A: Yes, but only in states other than California and Arizona. Please see the label for specific guidelines for impregnating bulk fertilizer.

Q: When is the best time to apply VELPAR?

A: In the fall, after a frost or before the ground is frozen. In the spring, after the ground thaws but before there are 2 inches of new growth.

Q: What about dormant and non-dormant varieties?

A: For non-dormant varieties, make a single application of VELPAR during the winter months when alfalfa is in the least active state of growth.

For dormant varieties, make a single application of VELPAR during the winter months after alfalfa becomes dormant and before new growth exceeds 2 inches in height in the spring.

Q: How soon after application should VELPAR be incorporated?

A: Ideally, VELPAR should be properly incorporated with water within two weeks.

Q: How important is my soil type in my application?

A: Low organic matter (OM) or low cationic exchange capacity (CEC) increases the risk of phytotoxicity, especially in hot weather or stress conditions.

Q: Are there any other important considerations?

A: When mixing with cold water, combinations of VELPAR and paraquat have been known to form hard sludge in the spray tank.

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Use Rates for VELPAR L CU Pints/Acre

Soil Texture Description	<1% Organic Matter in Soil	1 - 5% Organic Matter in Soil	>5% Organic Matter in Soil
Coarse loamy sand, sandy loam	2 to 3	2 to 3	4 to 6
Medium loam, silt loam, silt clay loam, sandy clay loam	2 to 3	3 to 6	4 to 6
Fine silty clay loam, sandy clay, silty clay, clay	3 to 6	3 to 6	4 to 6

Label Restrictions	<ul style="list-style-type: none"> Do not apply within 30 days of harvest (cutting for hay), or feeding of forage or grazing. Do not exceed 6 pints per acre per application. Do not exceed 6 pints (1.5 pounds active ingredient hexazinone) per acre per year.
Crop Rotation Directions	<ul style="list-style-type: none"> Do not replant treated areas to any crop except corn, root crops or sugarcane within two years after treatment, as crop injury may result. Corn may be planted 12 months after the last treatment in areas of moderate to high rainfall (greater than 20 inches), provided the use rate did not exceed 3 pints per acre. Root crops such as potatoes, sugarbeets, radish and carrots may be planted 12 months after last treatment, provided the use rate does not exceed 2 pints per acre. Sites with use rates higher than 2 pints per acre must not be replanted to any root crop within 2 years after application of VELPAR, or unacceptable crop injury may occur. In areas where irrigation is needed to produce the crop, the crop rotation intervals listed may need to be extended if the normal irrigation amount is reduced for any reason. In California, do not replant seed alfalfa areas to any crop within 2 years after treatment, as crop injury may result.
Re-Entry Interval (REI)	<ul style="list-style-type: none"> REI: 24 hours. Do not enter or allow worker entry into treated areas during the restricted entry interval.
Environmental Conditions and Biological Activity	<ul style="list-style-type: none"> VELPAR herbicide is absorbed through the roots and foliage. Moisture is required to activate VELPAR in the soil. Best results are obtained when the soil is moist at the time of application and 1/4-1/2 inches of rainfall occurs within 2 weeks after application. For best results, apply VELPAR pre-emergence or post-emergence when weeds are less than 2 inches in height or diameter. <p>Foliar activity is most effective under conditions of high temperatures (above 80 degrees F), high humidity, and good soil moisture.</p> <p>Foliar activity may be reduced when vegetation is dormant, semi-dormant or under stress.</p> <p>On herbaceous plants, symptoms usually appear within 2 weeks after application under warm, humid conditions, while 4-6 weeks may be required when weather is cool or dry, or when plants are under stress.</p> <p>If rainfall after application is inadequate to activate VELPAR in the soil, plants may recover from contact effects and continue to grow.</p> <ul style="list-style-type: none"> The degree and duration of control may depend on the following: use rate, weed spectrum and size at application and environmental conditions at, and following, treatment.

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2022-01-04T-Velpar-PI-TechBulletin

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