

## **APPLICATION DIRECTIONS FOR USE IN RECENT PLANTED CITRUS GROVES - FLORIDA**

### General Information

Alion Herbicide is formulated as a suspension concentrate of indaziflam at a concentration of 1.67 pounds of active ingredient per gallon.

Alion Herbicide is a preemergence herbicide for control of annual grasses and broadleaf weeds in citrus fruit, stone fruit, pome fruit, grapes, tree nuts, and olives. Alion Herbicide may be applied to the soil as a uniform broadcast or band application for the prevention of new weed emergence.

Alion Herbicide provides preemergence, residual control of weeds. A dry soil surface at time of application and 48 hours after application is optimum for binding the active ingredient to soil particles and preventing its downward movement to the crop's roots. Moisture is needed for activation of Alion Herbicide. Dry soil conditions following the initial 48-hour period after application of Alion Herbicide may result in reduced weed control. Weeds that germinate prior to activation by rain or irrigation may not be controlled. If weeds have emerged, the addition of a foliar active herbicide is needed. Alion Herbicide applied alone will not control weeds that are already emerged. Refer to the "Tank Mix Instructions" section.

This product controls weeds by inhibiting cellulose biosynthesis in plants. It may be applied at any time when the ground is not frozen or covered with snow. It will provide most effective residual weed control when applied to a dry soil surface followed by 48 hours without irrigation or rain, and then followed by adequate moisture from rain or an irrigation event within 21 days and prior to weed seed germination. Weed seeds and seedlings must come into contact with Alion Herbicide prior to emergence to be controlled. If insufficient moisture is present, some weeds may germinate and emerge from below the treated layer of soil. Avoid using Alion Herbicide in areas where soil runoff or erosion is likely to occur.

Excessive crop or weed present on the soil surface at the time of application may prevent a uniform distribution of the product reaching the soil and consequently may reduce weed control. Performance may be improved by removing the debris prior to applying Alion Herbicide. In very dense stands of living weeds, an

application of a foliar active herbicide first then followed 3-6 weeks later with the application of Alion Herbicide is recommended for improved performance.

The level of weed control is dependent on many variables including soil texture, moisture, temperature, weed species present, the amount of weed seed present in the soil, and the crop canopy.

Do not apply within 25 feet of ponds, lakes, rivers, streams, wetlands, and habitat containing aquatic and semi-aquatic plants. The Pre-Harvest Interval (PHI) is 7 days for citrus and 14 days for all other crops listed on the label.

#### PRECAUTIONS FOR USE

- Avoid direct or indirect spray contact with crop foliage, green bark, roots, or fruit as it may cause localized crop injury or death. Only trunks with callused, mature brown bark may be sprayed with Alion Herbicide. If the trunks are not fully callused mature brown bark, they should not be sprayed unless protected from spray contact by nonporous wraps, grow tubes or waxed containers. Contact of Alion Herbicide with tissues other than mature brown bark may result in serious damage or plant death.
- The soil surface where Alion Herbicide is to be applied should not have open channels or cracks in the soil. This is to prevent the product from reaching the crop roots either through direct contact from the spray application or with water movement from rain or irrigation as this may cause crop injury. If depressions in the soil such as from settling following transplanting exist around the base of the crop, fill them in with soil prior to applying Alion Herbicide. Crops that are stressed may be more sensitive to herbicide injury and should not be treated.
- Weed control activity may be reduced if the application is made to soil covered in heavy crop or weed debris that prevents a uniform distribution of the product reaching the soil. Removing the debris prior to applying Alion Herbicide may improve weed control.
- Rates provided on the label are based on broadcast treatment. For banded applications, reduce the broadcast rate of Alion Herbicide to the proportion of the field being treated. No area of the field may be treated with more than the highest rate provided on the label regardless of the portion of the field that this represents.

- Use of spot spraying around desired plants is not recommended due to the variability of the actual application rate. Excessive application rates may result in severe crop injury or death.
- Do not use in crops that exhibit low vigor or poor health as they may be more susceptible to crop injury. Causes of reduced vigor may include such things as previous pesticide applications, excess fertilizer or salt, diseases, insects, nematodes, drought, flooding, wind damage, frost, nutrient deficiency, or mechanical damage.

#### RESTRICTIONS FOR USE

- Alion Herbicide can only be applied in citrus trees established for a minimum of one year after transplanting and exhibiting normal growth and good vigor or in new citrus groves one month after planting if the transplanted trees were potted plants (such as citripots) and not bare-rooted, the trunks are protected from spray contact by nonporous wraps, grow tubes or waxed containers, and the trees are actively growing and exhibiting good health and vigor.
- Alion Herbicide can only be applied in labeled tree nut crops (except pecan) that have been established for a minimum of one year after transplanting and exhibiting normal growth and good vigor.
- Alion Herbicide can only be applied in labeled pome and stone fruit, pecan, and olive that have been established for a minimum of three years after transplanting and exhibiting normal growth and good vigor.
- Do not use on soils with 20% or more gravel content. To determine gravel content do not remove gravel from soil samples before sending the samples for soil texture analysis, and request that gravel content be included in the analysis. The gravel content (greater than 2 mm or 0.079 inches in size, US standard sieve size 10) is defined as total % gravel by weight before conducting soil texture analysis.
- Do not apply more than the amount of Alion Herbicide specified per application and per year or in a 12 month period on the label based on soil texture, % organic matter content, application site, and crop.
- Allow at least 90 days between applications of Alion Herbicide.

- Only use in vineyards where the grapes have been planted at least 12 inches deep or where there is 12 inches of soil barrier (berm) between the soil surface and the major portion of the root system.
- Alion Herbicide can only be applied in grapes that have been established for a minimum of five years after transplanting and exhibiting normal growth and good vigor.
- Do not apply this product through any type of irrigation system.
- Do not apply this product by aerial application.
- Do not harvest citrus crops within 7 days after the application of Alion Herbicide.
- Do not harvest crops other than citrus within 14 days after the application of Alion Herbicide.
- Only crops listed on the label may be replanted or rotated within 24 months after the last application of Alion Herbicide and while following the instructions listed in the "Rotational Crop Restrictions" section.
- Do not apply this product to frozen or snow covered soil.
- Do not apply this product to water-saturated soil.
- Do not use this product in flood-irrigated orchards or vineyards containing stone fruit, pome fruit, grapes, tree nuts, or olives.
- Do not apply irrigation to treated areas within 48 hours after application.
- Do not apply within 25 feet of ponds, lakes, rivers, streams, wetlands, and habitat containing aquatic and semi-aquatic plants.
- Do not use Alion Herbicide in Nassau and Suffolk Counties of New York State.

#### APPLICATION INFORMATION

Alion Herbicide can only be applied by ground equipment. Do not apply by aerial equipment, chemigation, or spot spraying around desired plants.

Apply Alion Herbicide alone or in an approved tank mixture in a minimum of 10 gallons of spray mixture per acre. Use higher spray volumes to improve distribution

in high densities of emerged weeds or debris. Uniform, thorough spray coverage directed to the soil at the base of the crop is important to achieve consistent weed control. Do not allow spray to directly or indirectly contact crop foliage, green bark, roots, or fruit as it may cause localized crop injury. Application may be made as a broadcast treatment or as a banded treatment under vineyard, grove, or orchard crops. When making banded applications use proportionately less spray water and Alion Herbicide. The dosage listed on the label is for the treated area of the field regardless of the portion of the field that this represents.

#### Limitations, Restrictions, and Exceptions

#### APPLICATION DIRECTIONS FOR USE IN RECENT PLANTED CITRUS GROVES

Only apply Alion Herbicide in citrus groves where the soil is completely settled around citrus trees and there are not open channels or depressions in the soil that would allow the product to move into the root zone through open channels. Alion Herbicide may be used around trees have been established for a minimum of one year after transplanting or in trees planted a minimum of one month provided the following conditions exists:

- The transplanted trees were potted plants (such as citripots) and not bare-rooted
- The trunks are protected from spray contact by nonporous wraps, grow tubes or waxed containers.
- The trees are actively growing and exhibiting good health and vigor.
- Application is made with broadcast equipment delivering a uniform spray pattern. Spot spraying is not allowed.

Avoid direct or indirect spray contact with crop foliage, green bark, roots or fruit as it may cause localized crop injury or death. Only the trunks of trees transplanted more than one year may be sprayed with Alion Herbicide if the trunk is callused, mature brown bark.

Contact of Alion Herbicide with tissues other than mature brown bark can result in serious damage or plant death.

Citrus trees may be transplanted into soil previously treated with Alion Herbicide 1 month or more after the last application provided potted trees (such as citripots) are used.

#### Notes and Restrictions:

- Choose the higher rate for longer weed control or situations with heavy weed

debris.

- When making more than one application per year, allow a minimum of 90 days between applications.

Method

[Broadcast Spray](#)

Rates

[field rates 0](#)

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Restricted Entry Interval

12 hours

Timings

[N.A.](#)