

2.75"

COPY AREA

**FIRST AID**

<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>

(continued)

1.75"

2.25"

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**For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577**  
Have the product container or label with you when calling a poison control center or doctor or going for treatment.

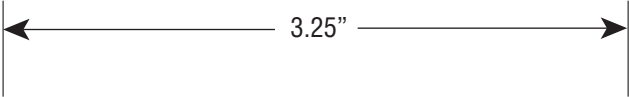
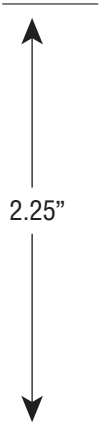
**Note to physician:** No specific antidote is available. Treat symptomatically.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed, absorbed through the skin or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing mist.



2.75"

COPY AREA

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

All mixers, loaders, applicators and other handlers must wear:

- long-sleeved shirt and long pants.
- shoes plus socks.
- waterproof gloves.

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.

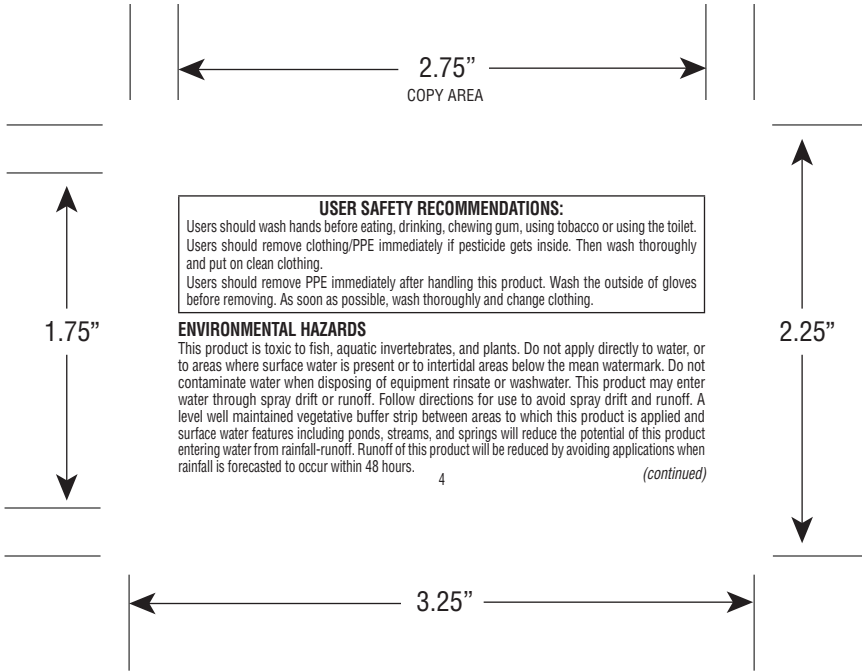
**ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (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.

1.75"

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2.75"

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Surface Water Advisory: This pesticide may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application.  
Ground Water Advisory: This pesticide 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.

**DIRECTIONS FOR USE**

**It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.  
Read the entire label before using this product**

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.

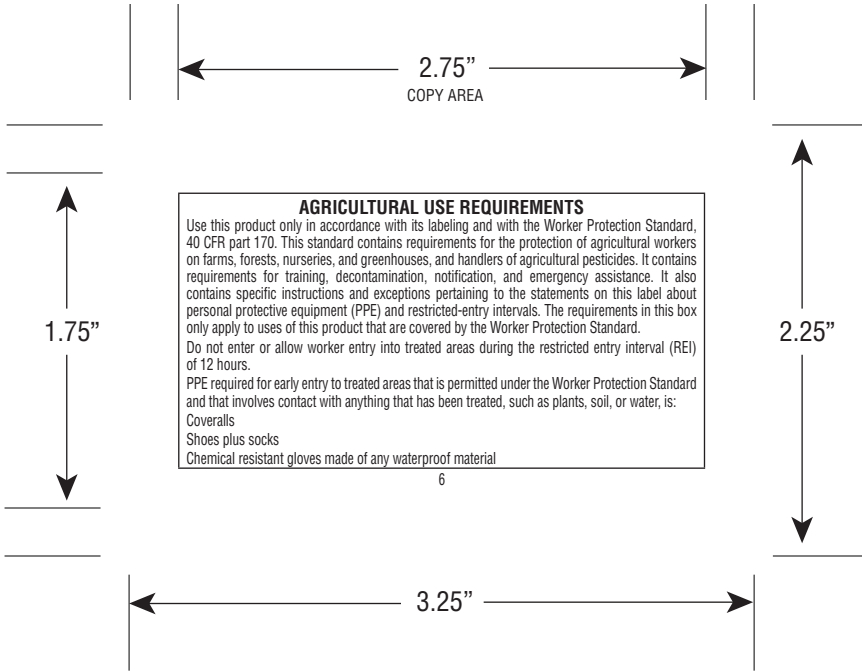
**SHAKE CONTAINER WELL BEFORE USING.**

**IN THE STATE OF NEW YORK ONLY: NOT FOR SALE, DISTRIBUTION OR USE IN NASSAU OR SUFFOLK COUNTY.**

1.75"

2.25"

3.25"



2.75"

COPY AREA

**PRODUCT 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 Blueberry (Highbush), Caneberry and other Caneberry Subgroup Crops in 13-07A; Citrus, Coffee; Grape, Hops; Pome and Stone Fruit, Tree Nuts, and Olive. 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.

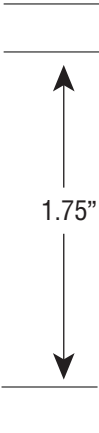
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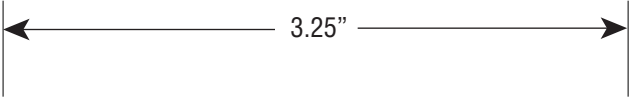
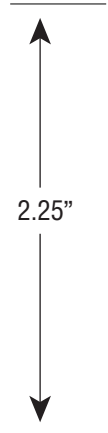


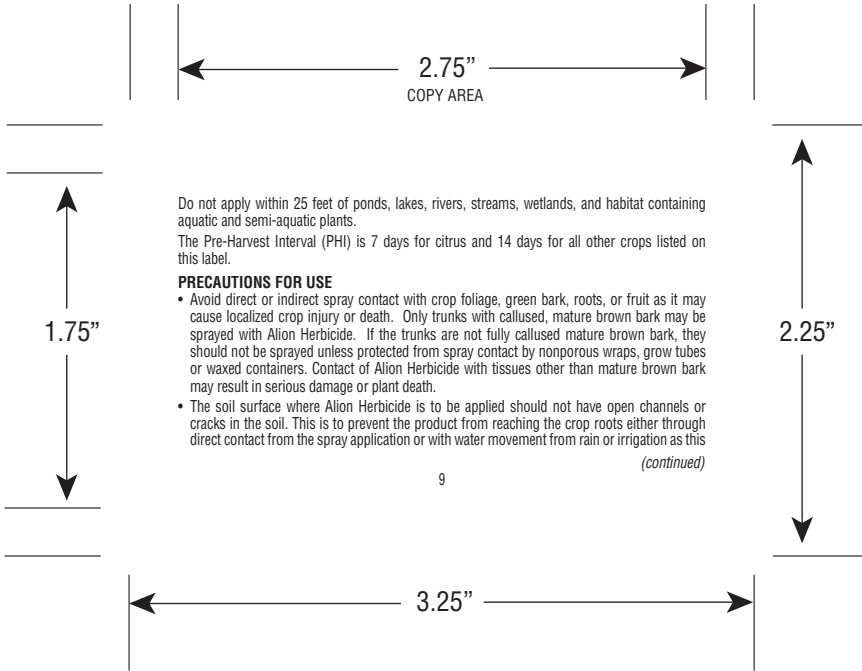


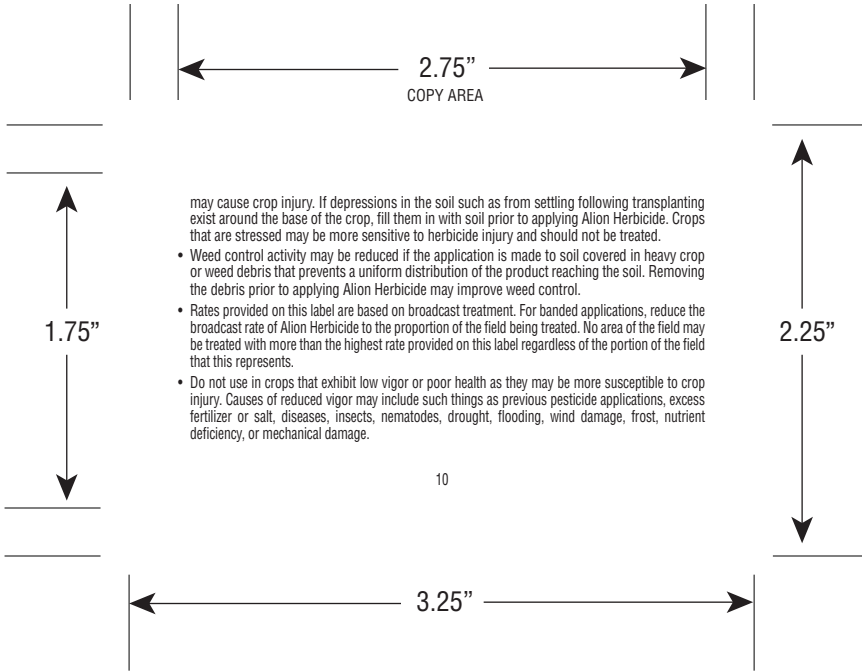
This product controls weeds by inhibiting cellulose biosynthesis in plants. It may be applied at any time when the ground is not frozen or covered with snow. It will provide most effective residual weed control when applied to a dry soil surface followed by 48 hours without irrigation or rain, and then 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 debris 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.

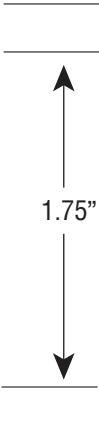






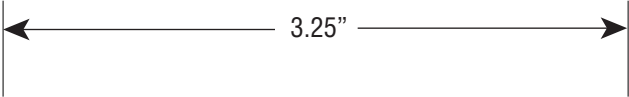
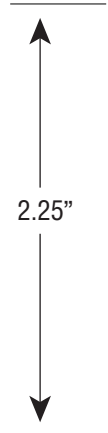
may cause crop injury. If depressions in the soil such as from settling following transplanting exist around the base of the crop, fill them in with soil prior to applying Alion Herbicide. Crops that are stressed may be more sensitive to herbicide injury and should not be treated.

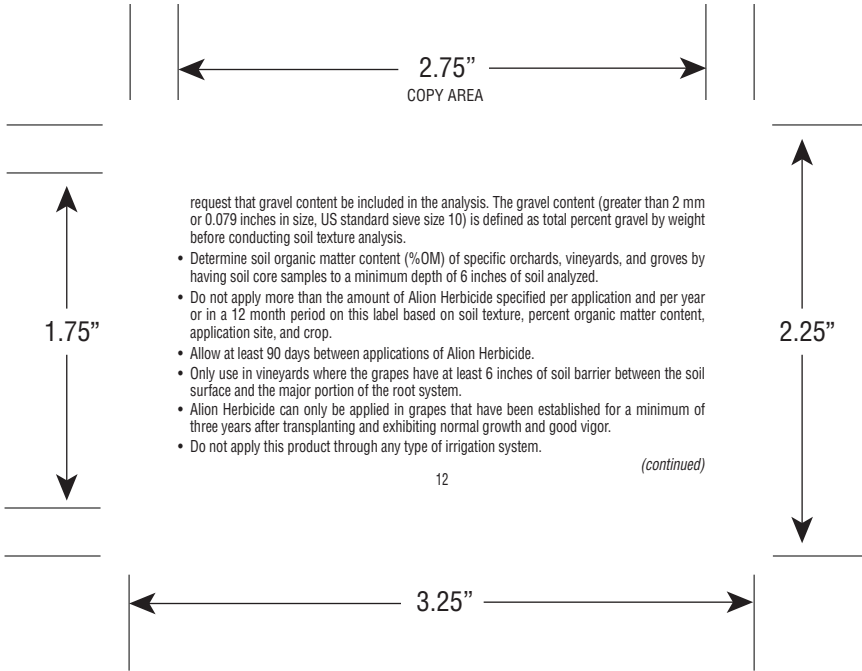
- Weed control activity may be reduced if the application is made to soil covered in heavy crop or weed debris that prevents a uniform distribution of the product reaching the soil. Removing the debris prior to applying Alion Herbicide may improve weed control.
- Rates provided on this label are based 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 this label regardless of the portion of the field that this represents.
- 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.

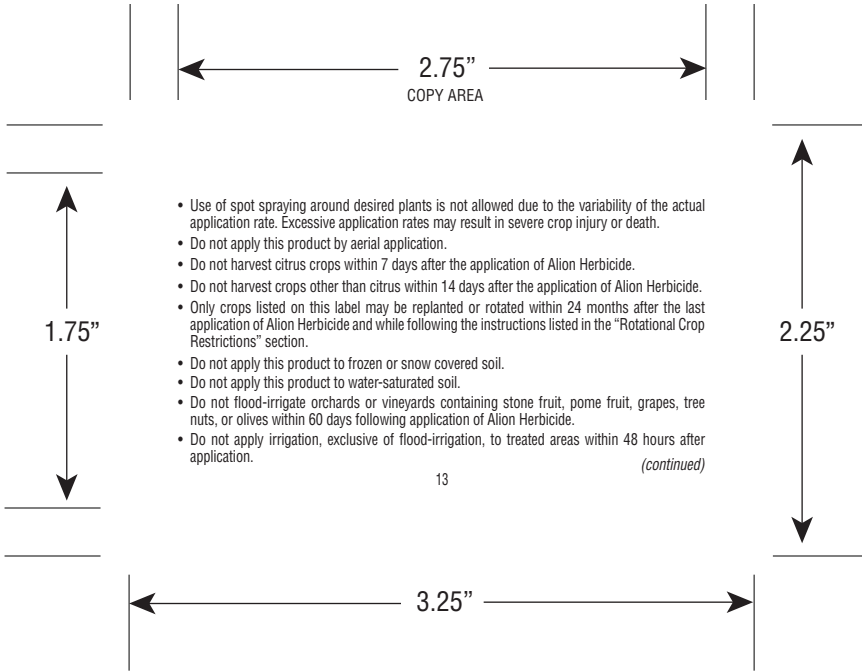


**RESTRICTIONS FOR USE**

- Aion 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.
- Aion 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.
- Aion 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









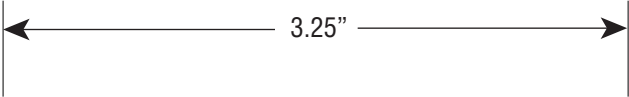
- Do not apply within 25 feet of ponds, lakes, rivers, streams, wetlands, and habitat containing aquatic and semi-aquatic plants.
- Do not use Alion Herbicide in Nassau and Suffolk Counties of New York State.

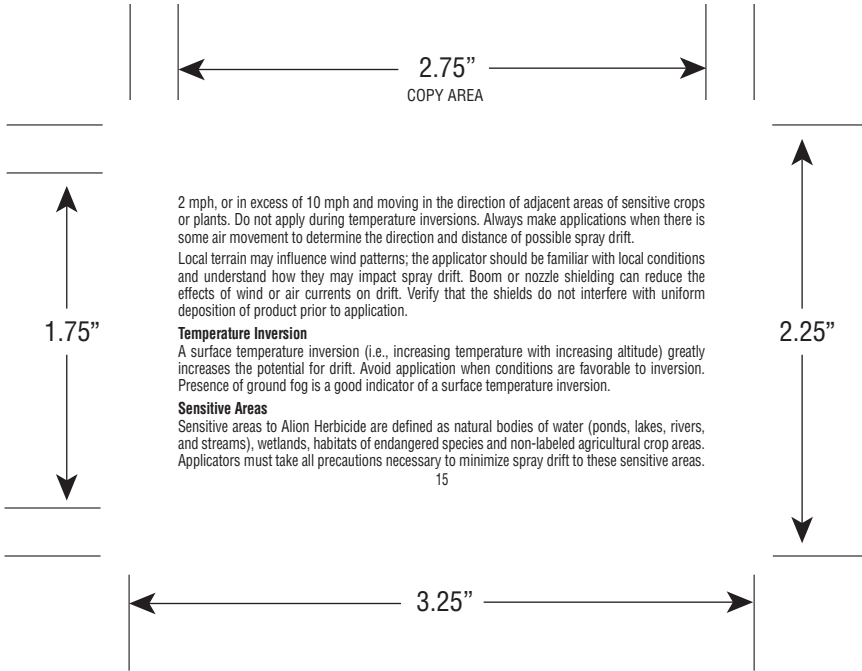
**SPRAY DRIFT MANAGEMENT**

Spray equipment and weather affect spray drift. Consider all factors when making application decisions. Where states have more stringent regulations, they must be observed. Avoiding spray drift is the responsibility of the applicator or grower. To reduce the potential for drift, the application equipment must be set to apply medium to large droplets (i.e., ASAE S-572.1) with corresponding spray pressure. Use high flow rate nozzles to apply the highest practical spray volume. With most nozzle types, narrower spray angles produce larger droplets. Follow the nozzle manufacturer's directions on pressure, orientation, spray volume, etc., in order to minimize drift and optimize coverage and control.

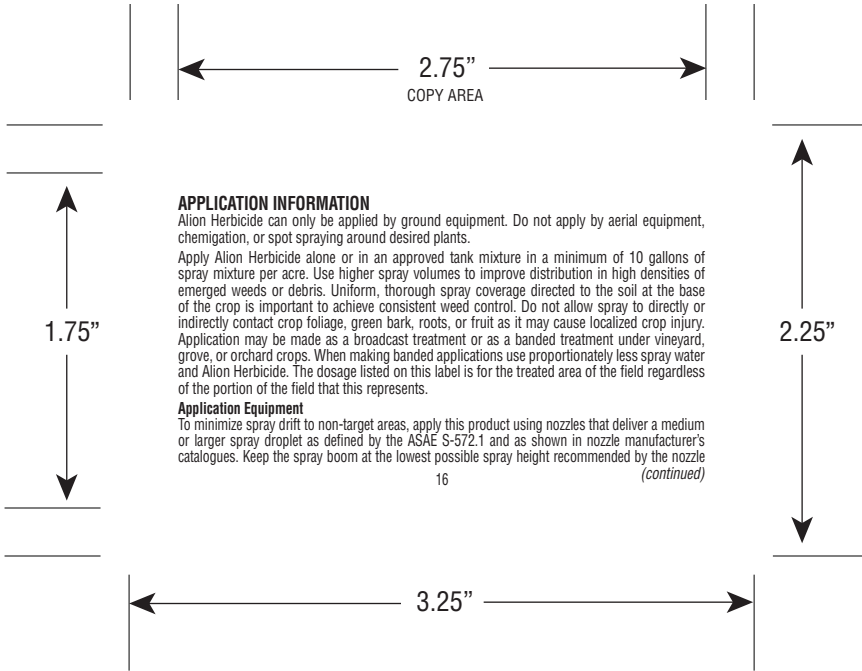
**Wind**

Avoid making applications when spray particles may be carried by air currents to areas where sensitive crops and plants are growing. Do not spray near sensitive plants if wind is gusty, below









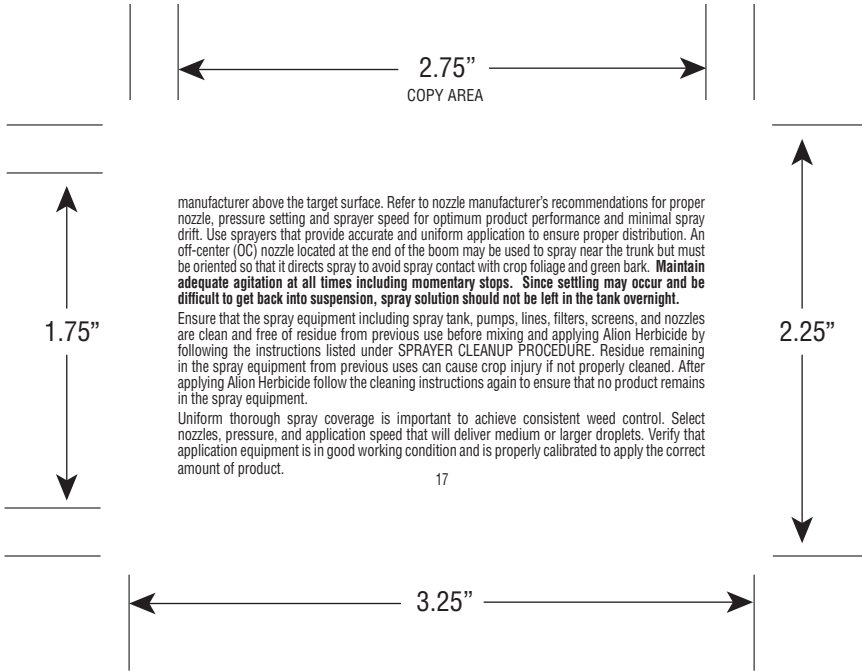
**APPLICATION INFORMATION**

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 this label is for the treated area of the field regardless of the portion of the field that this represents.

**Application Equipment**

To minimize spray drift to non-target areas, apply this product using nozzles that deliver a medium or larger spray droplet as defined by the ASAE S-572.1 and as shown in nozzle manufacturer's catalogues. Keep the spray boom at the lowest possible spray height recommended by the nozzle



2.75"

COPY AREA

**Application Method**

**Broadcast Applications**

For all crops listed on this label, apply Alion Herbicide at rates described in the **Dose Rate Chart** in the **APPLICATION DIRECTIONS** section for the specific crop or site where this product will be used.

**Banded Applications**

When making banded applications, use the same dosage rate as for broadcast applications but use proportionately less spray water and Alion Herbicide. The use rate provided is for the treated area of the field regardless of the portion of the field that it represents. Banded applications may be made using the following formula to calculate the amount of herbicide and spray volume needed for orchard or vineyard strip sprays:

$$\frac{\text{Treated Band width in Inches}}{\text{Row width in Inches}} \times \text{HERBICIDE Rate per Treated Acre} = \text{Amount of HERBICIDE needed for treatment}$$

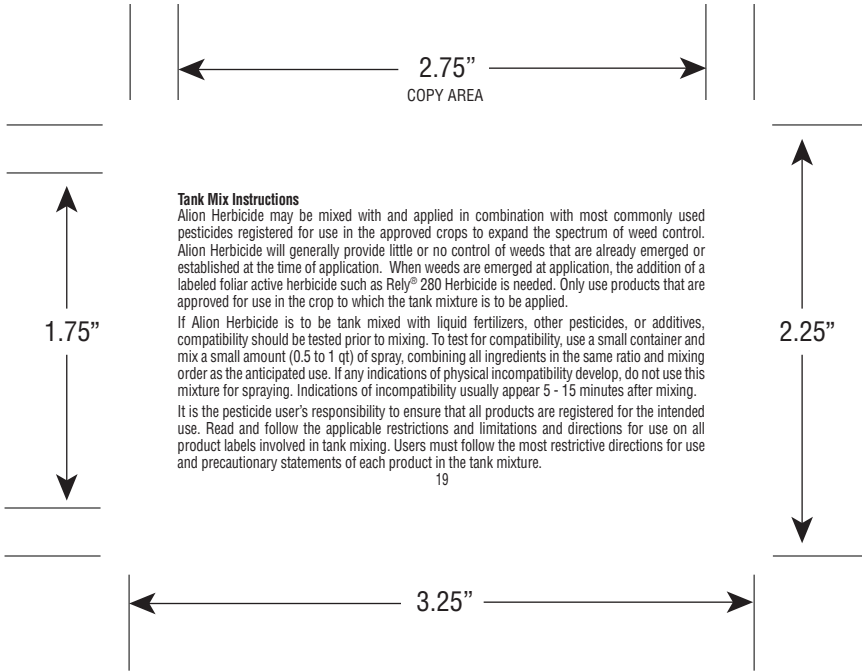
$$\frac{\text{Treated Band width in Inches}}{\text{Row width in Inches}} \times \text{SPRAY VOLUME per Treated Acre} = \text{Amount of Spray Volume needed for treatment}$$

18

1.75"

2.25"

3.25"



2.75"

COPY AREA

**Mixing Instructions**

Ensure that the application equipment has been thoroughly cleaned from previous use before using to apply Alion Herbicide. Follow the steps listed below:

1. Shake container well to ensure that the product is thoroughly suspended prior to measuring in case some settling has occurred during shipping or storage.
2. Fill the spray tank with 1/2 of the required volume of water prior to the addition of Alion Herbicide.
3. With the pump and agitator running, add the proper amount of Alion Herbicide first.
4. Once the Alion Herbicide is completely dispersed, add any other pesticides, fertilizers or additives if they are to be applied with Alion Herbicide.
5. Add the rest of the water to the desired volume while maintaining sufficient agitating.

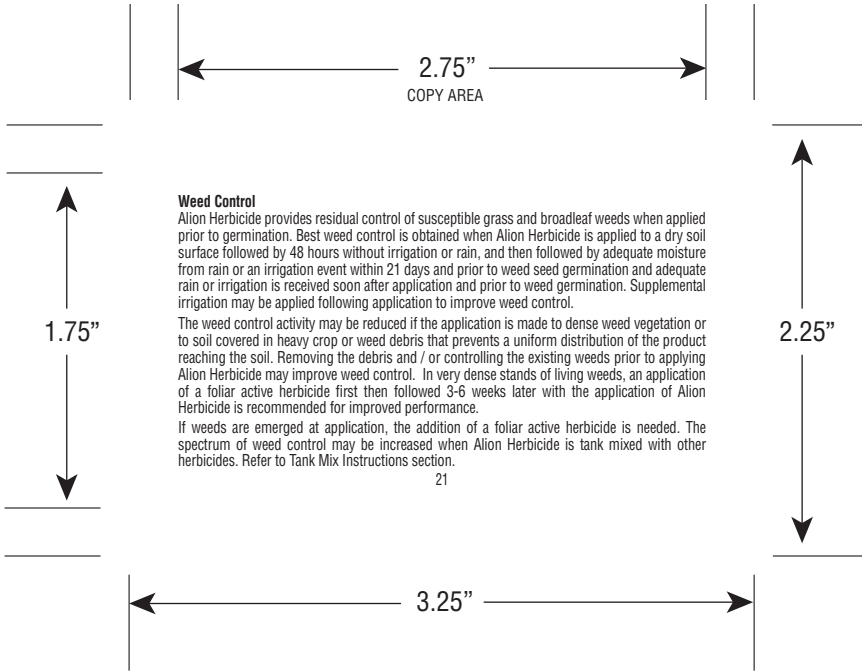
**Continue agitation while mixing and during application to ensure a uniform spray mixture.**

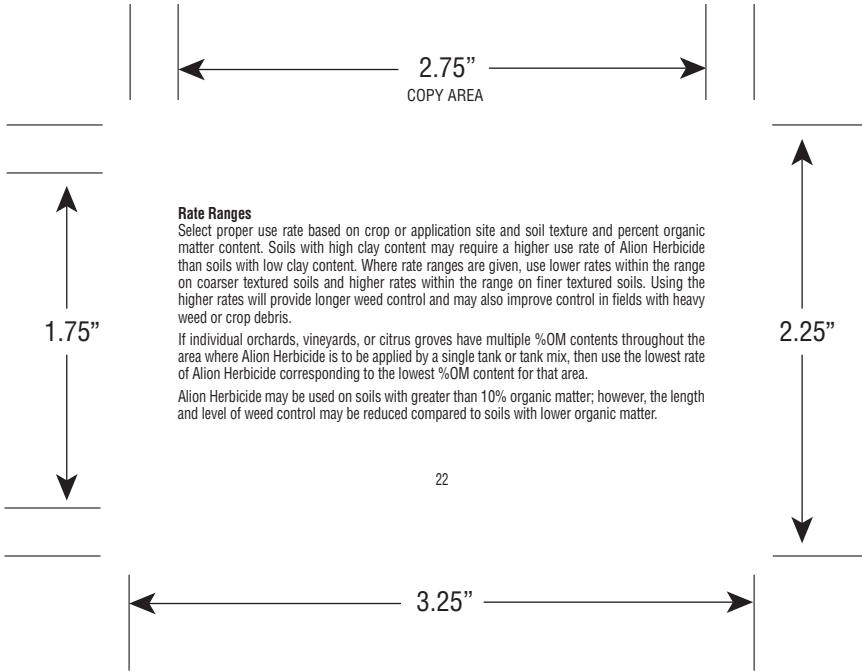
**Re-suspending SC Products in Spray Solution:** Like other suspension concentrates (SCs), Alion Herbicide will settle if left standing without agitation. Reagitate the spray solution for a minimum of 10 minutes before application.

1.75"

2.25"

3.25"





← 2.75" →  
COPY AREA

**Weeds Controlled by 3.5 to 6.5 Fl oz/Ac Alion Herbicide**

Broadleaves			
Common Name	Genus/Species	Common Name	Genus/Species
Buckwheat, wild *	<i>Polygonum convolvulus</i>	Groundsel, common	<i>Senecio vulgaris</i>
Burclover, California *	<i>Medicago polymorpha</i>	Henbit *	<i>Lamium amplexicaule</i>
Carpetweed	<i>Mollugo verticillata</i>	Horseweed / Marestalk	<i>Erigeron canadensis</i>
Chickweed, common	<i>Stellaria media</i>	Knotweed, prostrate *	<i>Polygonum aviculare</i>
Cudweed, purple	<i>Gnaphalium purpureum</i>	Kochia	<i>Kochia scoparia</i>
Dandelion, common (seedling)	<i>Taraxacum officinale</i>	Lambsquarters, common **	<i>Chenopodium album</i>
Eveningprimrose, cutleaf *	<i>Oenothera laciniata</i>	Mallow, little/ Cheeseweed	<i>Malva parviflora</i>
Filaree, redstem / Storksbill	<i>Erodium cicutarium</i>	Mustard, wild	<i>Sinapis arvensis</i>
Flabane, hairy	<i>Erigeron bonariensis</i>	Pigweed, prostrate	<i>Amaranthus blitoides</i>

↑ 1.75" ↓

↑ 2.25" ↓

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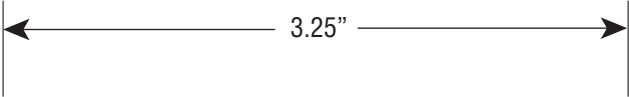
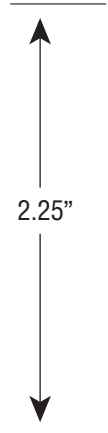
← 3.25" →



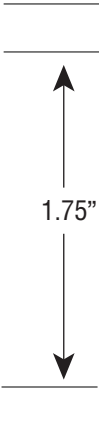


<b>Weeds Controlled by 3.5 to 6.5 Fl oz/Ac Alion Herbicide</b>			
<b>Broadleaves (continued)</b>			
Common Name	Genus/Species	Common Name	Genus/Species
Pigweed, redroot	<i>Amaranthus retroflexus</i>	Sowthistle, annual	<i>Sonchus oleraceus</i>
Purslane, common	<i>Portulaca oleracea</i>	Sunflower, common *	<i>Helianthus annuus</i>
Pusley, Florida	<i>Richardia scabra</i>	Swinecress	<i>Coronopus didymus</i>
Ragweed, common *	<i>Ambrosia elatior</i>	Thistle, Russian	<i>Salsola kali</i>
Redmaids	<i>Calandrinia caulescens</i>	Velvetleaf	<i>Abutilon theophrasti</i>
Shepherd's-purse	<i>Capsella bursa-pastoris</i>	Willowherb, panicle	<i>Epilobium brachycarpum</i>

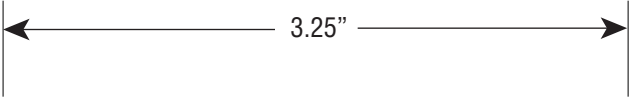
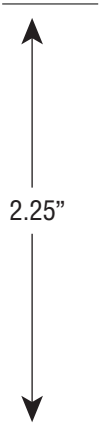
\* Denotes partial control of these weeds  
 \*\* Consistent control dependent on timely activation by rain or irrigation



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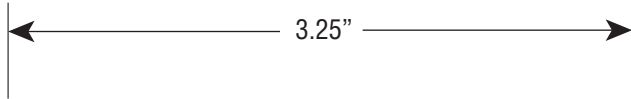


Weeds Controlled by 3.5 to 6.5 Fl oz/Ac Alion Herbicide			
Grasses			
Common Name	Genus/Species	Common Name	Genus/Species
Barley, mouse	<i>Hordeum murinum</i>	Foxtail, giant	<i>Setaria faberi</i>
Barnyardgrass, common	<i>Echinochloa crus-galli</i>	Foxtail, green	<i>Setaria viridis</i>
Bluegrass, annual	<i>Poa annua</i>	Foxtail, yellow	<i>Pennisetum glaucum</i>
Brome, foxtail	<i>Bromus rubens</i>	Goosegrass	<i>Eleusine indica</i>
Cheat	<i>Bromus secalinus</i>	Lovegrass, tufted	<i>Eragrostis pectinacea</i>
Crabgrass, large	<i>Digitaria sanguinalis</i>	Ryegrass, Italian (annual)	<i>Lolium multiflorum</i>





Weeds Controlled by 5.0 to 6.5 Fl oz/Ac Alion Herbicide			
Broadleaves			
Common Name	Genus/Species	Common Name	Genus/Species
Amaranth, spiny	<i>Amaranthus spinosus</i>	Filaree, whitestem	<i>Erodium moschatum</i>
Buttercup, com *	<i>Ranunculus arvensis</i>	Geranium, Carolina	<i>Geranium carolinianum</i>
Catsear, spotted ***	<i>Hypochoeris radicata</i>	Lettuce, prickly *	<i>Lactuca serriola</i>
Celery, wild *	<i>Apium leptophyllum</i>	Mallo, common *	<i>Malva neglecta</i>
Chickweed, mouse-ear	<i>Cerastium vulgatum</i>	Morningglory, ivyleaf *	<i>Ipomoea hederacea</i>
Clover, crimson ***	<i>Trifolium incarnatum</i>	Morningglory, pitted	<i>Ipomoea lacunosa</i>
Clover, red *	<i>Trifolium pratense</i>	Mustard, black	<i>Brassica nigra</i>
Clover, white ***	<i>Trifolium repens</i>	Nettle, stinging	<i>Urtica dioica</i>
Fiddleneck, coast	<i>Amsinckia intermedia</i>	Pigweed, smooth	<i>Amaranthus hybridus</i>



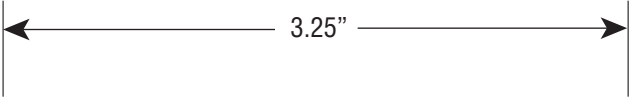


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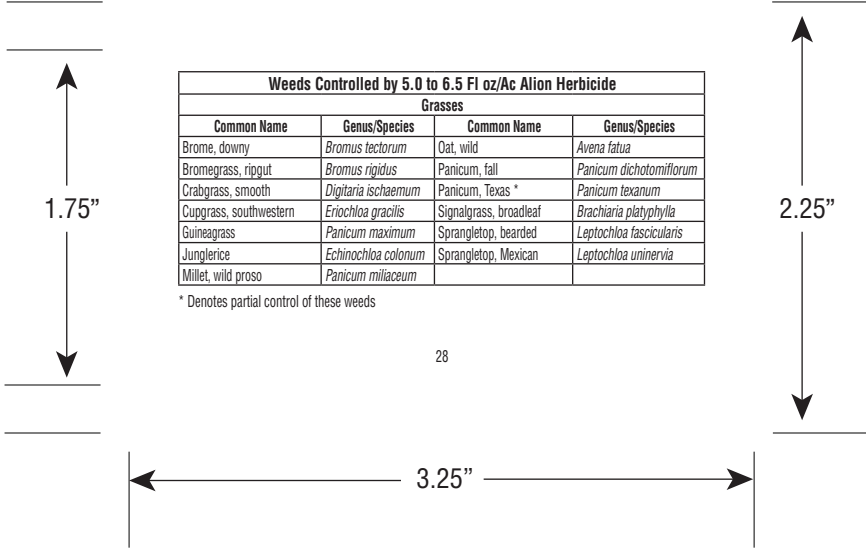
<b>Weeds Controlled by 5.0 to 6.5 Fl oz/Ac Alion Herbicide</b>			
<i>Broadleaves (continued)</i>			
Common Name	Genus/Species	Common Name	Genus/Species
Plantain, buckhorn	<i>Plantago lanceolata</i>	Sowthistle, spiny	<i>Sonchus asper</i>
Prickly sida / Teaweed	<i>Sida spinosa</i>	Spanishneedles *	<i>Bidens bipinnata</i>
Purslane, horse	<i>Trianthema portulacastrum</i>	Spurge, prostrate	<i>Euphorbia supina</i>
Rocket, London	<i>Sisymbrium irio</i>	Spurge, spotted	<i>Euphorbia maculata</i>
Sesbania, hemp / Coffeebean	<i>Sesbania exaltata</i>	Spurry, corn	<i>Spergula arvensis</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	Vetch, purple	<i>Vicia benghalensis</i>
Smellmelon	<i>Cucumis melo</i>	Woodsorrel, common yellow *	<i>Oxalis stricta</i>
Sorrel, red *	<i>Rumex acetosella</i>	Woodsorrel, Florida yellow	<i>Oxalis florida</i>

2.25"

\* Denotes partial control of these weeds  
 \*\* Consistent control dependent on timely activation by rain or irrigation  
 \*\*\* Seedling control only

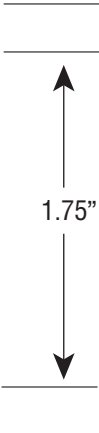


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Weeds Controlled by 5.0 to 6.5 Fl oz/Ac Alion Herbicide			
Grasses			
Common Name	Genus/Species	Common Name	Genus/Species
Brome, downy	<i>Bromus tectorum</i>	Oat, wild	<i>Avena fatua</i>
Bromegrass, rigout	<i>Bromus rigidus</i>	Panicum, fall	<i>Panicum dichotomiflorum</i>
Crabgrass, smooth	<i>Digitaria ischaemum</i>	Panicum, Texas *	<i>Panicum texanum</i>
Cupgrass, southwestern	<i>Eriochloa gracilis</i>	Signalgrass, broadleaf	<i>Brachiaria platyphylla</i>
Guineagrass	<i>Panicum maximum</i>	Sprangletop, bearded	<i>Leptochloa fascicularis</i>
Junglerice	<i>Echinochloa colonum</i>	Sprangletop, Mexican	<i>Leptochloa unineria</i>
Millet, wild proso	<i>Panicum millaceum</i>		

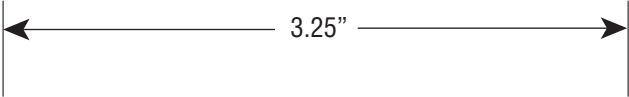
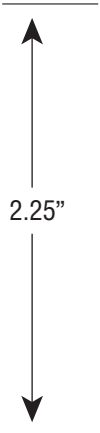
\* Denotes partial control of these weeds



**APPLICATION DIRECTIONS FOR USE ON BLUEBERRY (HIGHBUSH) AND cultivars, varieties, and/or hybrids of these including rabbiteye blueberries, except blueberry (lowbush).**

Only use Alion Herbicide in established plantings at least one year after the bushes have been planted and exhibiting normal growth and good vigor. Only apply Alion Herbicide to blueberries and bushberries where the soil has completely settled around the bushes and there are no exposed roots, open channels or depressions in the soil that would allow the product to move into the root zone or injury may occur.

*(continued)*

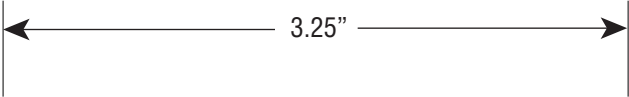
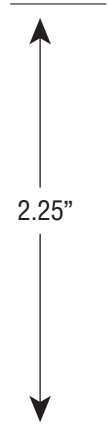


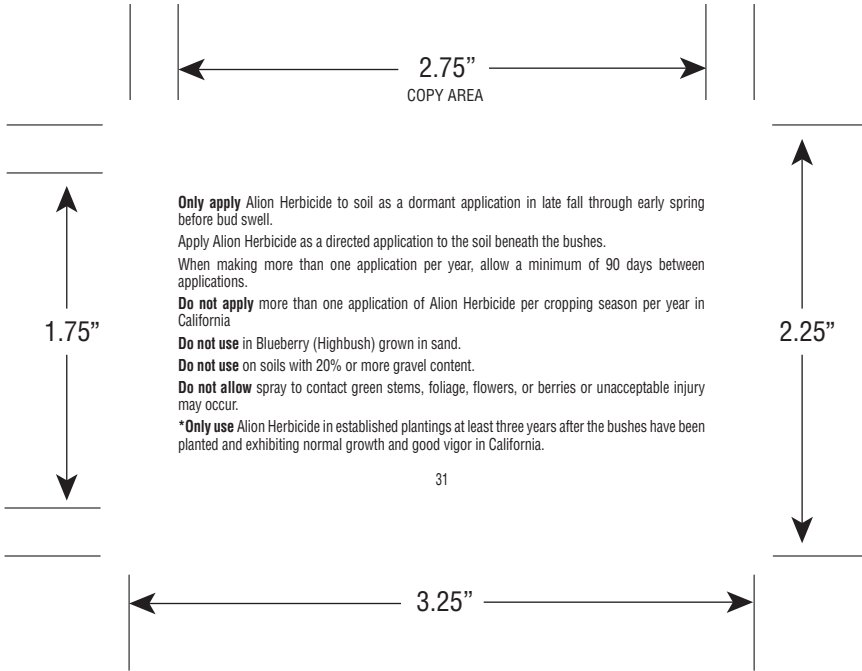


**Dose Rate Chart for Blueberry (Highbush)**

Soil Texture	Alion Herbicide (fl oz product / broadcast acre)			Minimum Plant Age
	Soil percent Organic Matter Content	Rate Per Application	Max Rate Per Year	
Sand	Do Not Use			1 year*
Any other soil except those that contain 20% or greater gravel content	%	fl oz/A	fl oz/A	
	<1	3.5 (0.045 lb ai/A)	7.0 (0.09 lb ai/A)	
	≥1	5.0 (0.065 lb ai/A)	10.0 (0.13 lb ai/A)	

**Do not apply** more than a total of 7.0 fl oz product/A (0.09 lb ai/A) per year on soils containing < 1 % organic matter content, or 10.0 fl oz product/A (0.13 lb ai/A) per year on soils containing ≥ 1 % organic matter content in a 12 month period when used in any highbush blueberry or bushberry planting. *(continued)*





**Only apply** Alion Herbicide to soil as a dormant application in late fall through early spring before bud swell.

Apply Alion Herbicide as a directed application to the soil beneath the bushes.

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

**Do not apply** more than one application of Alion Herbicide per cropping season per year in California

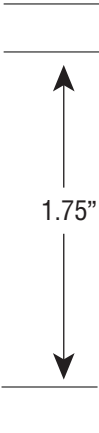
**Do not use** in Blueberry (Highbush) grown in sand.

**Do not use** on soils with 20% or more gravel content.

**Do not allow** spray to contact green stems, foliage, flowers, or berries or unacceptable injury may occur.

**\*Only use** Alion Herbicide in established plantings at least three years after the bushes have been planted and exhibiting normal growth and good vigor in California.

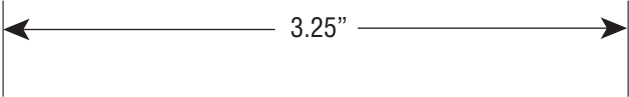
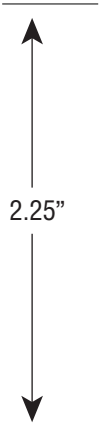




**APPLICATION DIRECTIONS FOR USE ON CANEBERRY AND OTHER CANEBERRY SUBGROUP CROPS IN 13-07A (Blackberry; loganberry; raspberry, black and red; wild raspberry; cultivars, varieties, and/or hybrids of these)**

Only use Alion Herbicide in established plantings at least one year after the bushes have been planted and exhibiting normal growth and good vigor. Only apply Alion Herbicide to caneberrys where the soil has completely settled around the bushes and there are no exposed roots, open channels or depressions in the soil that would allow the product to move into the root zone or injury may occur.

*(continued)*



2.75"  
COPY AREA

1.75"

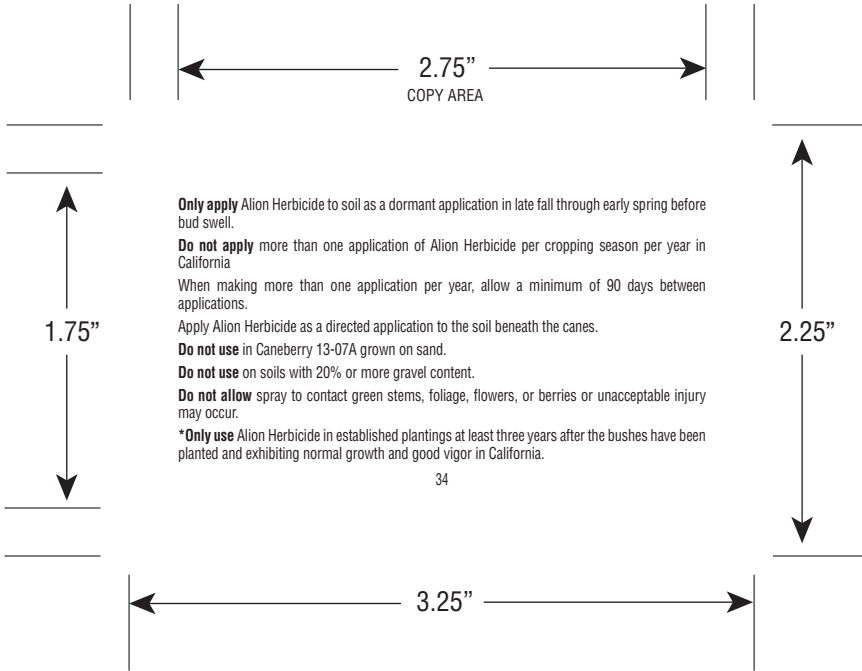
**Dose Rate Chart for Caneberry Plantings**

Soil Texture	Alion Herbicide (fl oz product / broadcast acre)			Minimum Plant Age
	Soil percent Organic Matter Content %	Rate Per Application fl oz/A	Max Rate Per Year fl oz/A	
Sand	Do Not Use			1 year*
Any other soil except those that contain 20% or greater gravel content	<1	3.5 (0.045 lb ai/A)	7.0 (0.09 lb ai/A)	
	≥1	5.0 (0.065 lb ai/A)	10.0 (0.13 lb ai/A)	

**Do not apply** more than a total of 7.0 fl oz product/A (0.09 lb ai/A) per year on soils containing < 1 % organic matter content, or 10.0 fl oz product/A (0.13 lb ai/A) per year on soils containing ≥1 % organic matter content in a 12 month period when used in any caneberry planting. *(continued)*

2.25"

3.25"



**Only apply** Alion Herbicide to soil as a dormant application in late fall through early spring before bud swell.

**Do not apply** more than one application of Alion Herbicide per cropping season per year in California

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

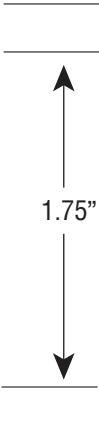
Apply Alion Herbicide as a directed application to the soil beneath the canes.

**Do not use** in Caneberry 13-07A grown on sand.

**Do not use** on soils with 20% or more gravel content.

**Do not allow** spray to contact green stems, foliage, flowers, or berries or unacceptable injury may occur.

**\*Only use** Alion Herbicide in established plantings at least three years after the bushes have been planted and exhibiting normal growth and good vigor in California.

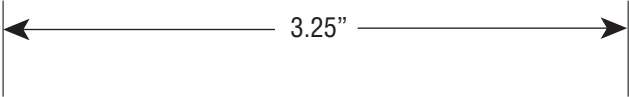
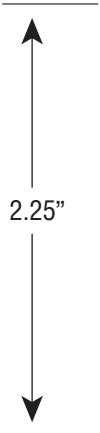


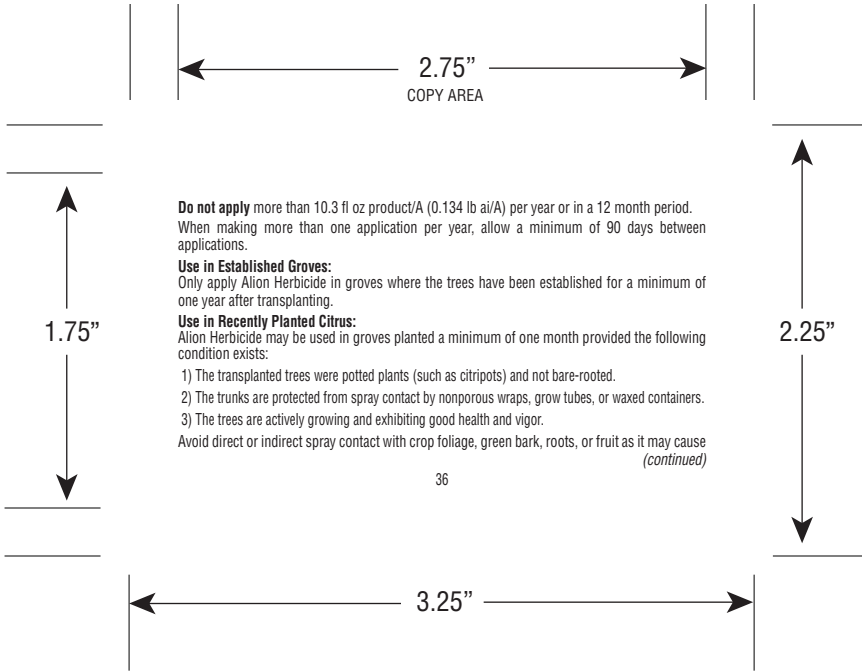
**APPLICATION DIRECTIONS FOR USE IN CITRUS**  
 Only apply Alion Herbicide in citrus where the soil has completely settled around citrus trees and there are no open channels or depressions in the soil that would allow the product to move into the root zone through open channels.

**Citrus Crops:** Crop group 10 including Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; clementine; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; langerine (mandarin); tangor; trifoliolate orange; uniq fruit; cultivars, varieties, and or hybrids of these

**Dose Rate Chart for Citrus**

Soil Texture	Alion Herbicide (fl oz product / broadcast acre)
Any soil except those that contain 20% or greater gravel content	5.0 to 6.5 fl oz/A (0.065 to 0.085 lb ai/A)





**Do not apply** more than 10.3 fl oz product/A (0.134 lb ai/A) per year or in a 12 month period. When making more than one application per year, allow a minimum of 90 days between applications.

**Use in Established Groves:**

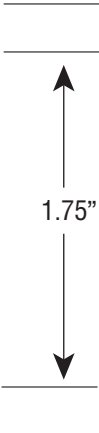
Only apply Alion Herbicide in groves where the trees have been established for a minimum of one year after transplanting.

**Use in Recently Planted Citrus:**

Alion Herbicide may be used in groves planted a minimum of one month provided the following condition exists:

- 1) The transplanted trees were potted plants (such as citripots) and not bare-rooted.
- 2) The trunks are protected from spray contact by nonporous wraps, grow tubes, or waxed containers.
- 3) The trees are actively growing and exhibiting good health and vigor.

Avoid direct or indirect spray contact with crop foliage, green bark, roots, or fruit as it may cause  
*(continued)*

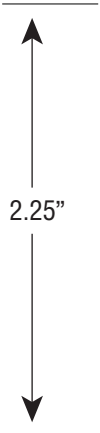
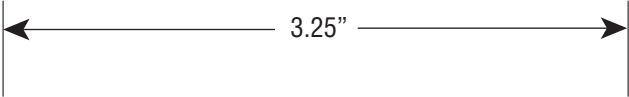


localized crop injury or death. Only the trunks of trees transplanted more than one year may be sprayed with Alion Herbicide if the trunk is callused, mature brown bark. Contact of Alion Herbicide with tissues other than mature brown bark can result in serious damage or plant death.

**APPLICATION DIRECTIONS FOR USE ON COFFEE**

Only use Alion Herbicide in established plantings at least one year after the shrubs have been planted and exhibiting normal growth and good vigor. Only apply Alion Herbicide to coffee shrubs where the soil has completely settled around the shrubs and there are no open channels or depressions in the soil that would allow the product to move into the root zone or injury may occur.

*(continued)*



2.75"  
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**Dose Rate Chart for Coffee**

Soil Texture	Alion Herbicide (fl oz product / broadcast acre)			
	Soil percent Organic Matter Content	Maximum Rate of First Application	Maximum Rate of Second Application	Max Rate Per Year
Any soil except those that contain 20% or greater gravel content	%	fl oz/A	fl oz/A	fl oz/A
	<1	3.5 (0.045 lb ai/A)	3.5 (0.045 lb ai/A)	7.0 (0.091 lb ai/A)
	1 to 3	5.0 (0.065 lb ai/A)		8.5 (0.11 lb ai/A)
	> 3	6.8 (0.089 lb ai/A)		10.3 (0.134 lb ai/A)

1.75"

2.25"

3.25"

2.75"

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1.75"

**Do not apply** more than the amount of Alion Herbicide specified per application and per year or in a 12 month period on this label based on soil texture, percent organic matter content, application site, and crop. When making more than one application per year, allow a minimum of 90 days between applications.  
**Do not use** on soils with 20% or more gravel content.  
**Do not apply** more than 10.3 fl oz product/A (0.134 lb ai/A) per year or in a 12 month period when used in Coffee.  
**Do not use** in coffee grown on sand.  
**Do not allow** spray to contact green stems, foliage, flowers, or beans or unacceptable injury may occur.

**GRAPE**

Only use Alion Herbicide in established vineyards at least three years after the vines have been planted and exhibiting normal growth and good vigor. Ensure that the grapes have 6 inches of soil barrier between the soil surface and the major portion of the root system prior to using Alion Herbicide or injury may occur.

2.25"

3.25"



2.75"

COPY AREA

**Dose Rate Chart for Grape Vineyards**

Soil Texture	Alion Herbicide (fl oz product / broadcast acre)			Minimum Vine Age
	Soil percent Organic Matter Content	Rate Per Application	Max Rate Per Year	
Sand	Do Not Use			3 years
Any other soil except those that contain 20% or greater gravel content	%	fl oz/A	fl oz/A	
	<1	3.5 (0.045 lb ai/A)	5.0 (0.065 lb ai/A)	
	≥1	5.0 (0.065 lb ai/A)	5.0 (0.065 lb ai/A)	

**Do not apply more than the amount of Alion Herbicide specified per application and per year or in a 12 month period on this label based on soil texture, percent organic matter content, application site, and crop.**

(continued)

1.75"

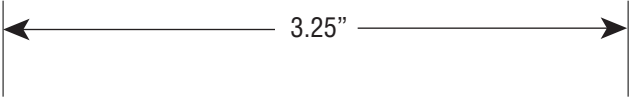
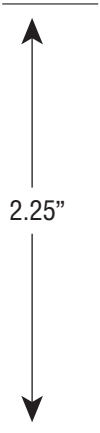
2.25"

3.25"



**Do not use** in grapes grown in Florida or Georgia.  
**Do not use** in grapes grown in sand.  
**Do not use** on soils with 20% or more gravel content.  
**Do not apply** more than a total of 5.0 fl oz product/A (0.065 lbs ai/A) per year or in a 12 month period when used in grape vineyards.  
When making more than one application per year, allow a minimum of 90 days between applications.

**APPLICATION DIRECTIONS FOR USE ON HOPS**  
Only use Alion Herbicide in established plantings at least one year after the vines have been planted and exhibiting normal growth and good vigor. Only apply Alion Herbicide to hops vines where the soil has completely settled around the vines and there are no exposed roots, open channels or depressions in the soil that would allow the product to move into the root zone or injury may occur.



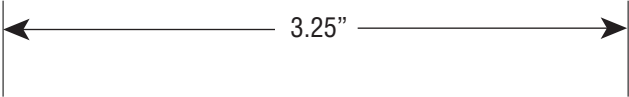


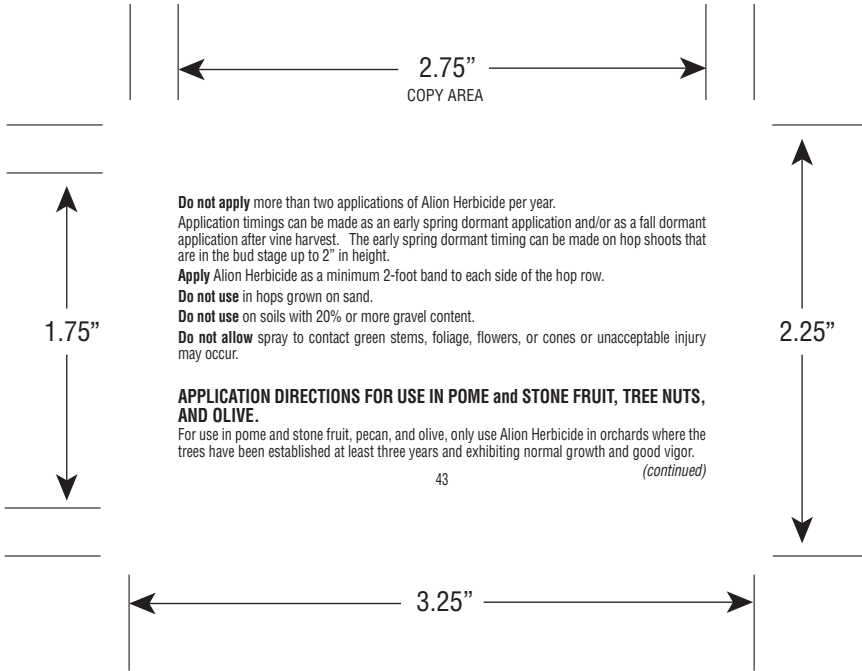
**Dose Rate Chart for Hops**

Soil Texture	Alion Herbicide (fl oz product / broadcast acre)			Minimum Plant Age
	Soil percent Organic Matter Content %	Rate Per Application fl oz/A	Max Rate Per Year fl oz/A	
Sand	Do Not Use			1 year
Any other soil except those that contain 20% or greater gravel content	<1	3.5 (0.045 lb ai/A)	7.0 (0.09 lb ai/A)	
	≥1	5.0 (0.065 lb ai/A)	10.0 (0.13 lb ai/A)	

**Do not apply** more than a total of 7.0 fl oz product/A (0.09 lb ai/A) per year on soils containing < 1 % organic matter content, or 10.0 fl oz product/A (0.13 lb ai/A) per year on soils containing ≥1 % organic matter content in a 12 month period when used in any hops planting.

*(continued)*





**Do not apply** more than two applications of Alion Herbicide per year. Application timings can be made as an early spring dormant application and/or as a fall dormant application after vine harvest. The early spring dormant timing can be made on hop shoots that are in the bud stage up to 2" in height.

**Apply** Alion Herbicide as a minimum 2-foot band to each side of the hop row.

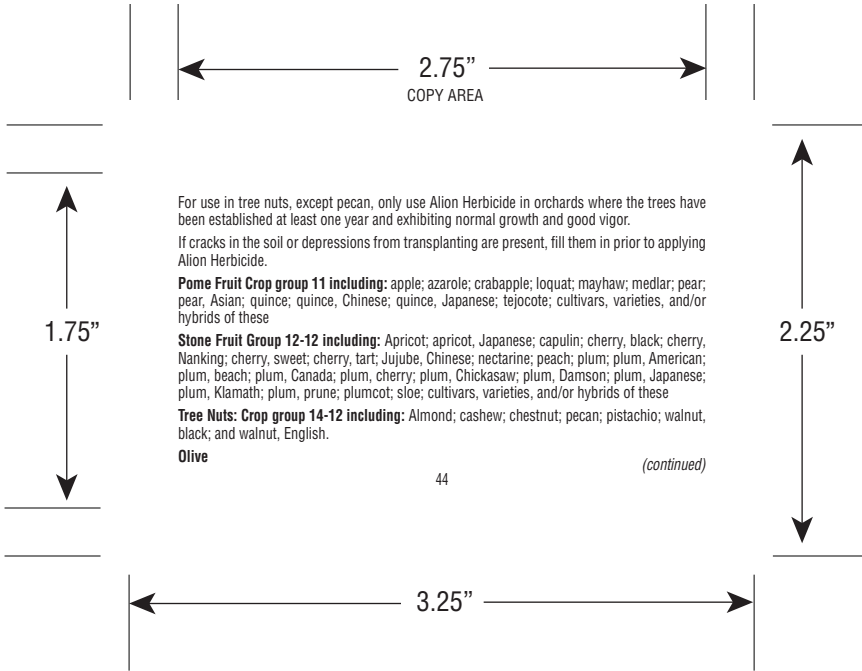
**Do not use** in hops grown on sand.

**Do not use** on soils with 20% or more gravel content.

**Do not allow** spray to contact green stems, foliage, flowers, or cones or unacceptable injury may occur.

**APPLICATION DIRECTIONS FOR USE IN POME and STONE FRUIT, TREE NUTS, AND OLIVE.**

For use in pome and stone fruit, pecan, and olive, only use Alion Herbicide in orchards where the trees have been established at least three years and exhibiting normal growth and good vigor.



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↑ 1.75" ↓

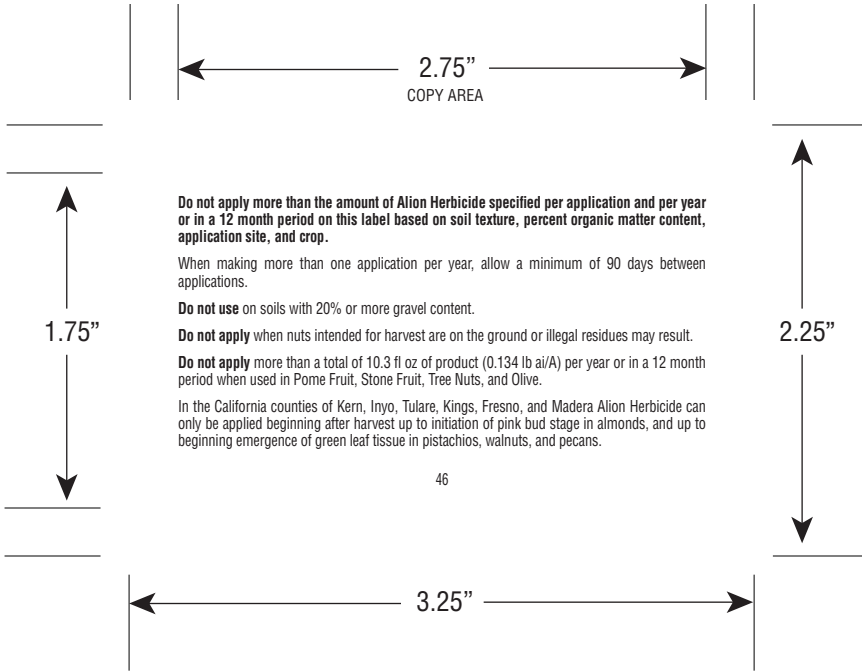
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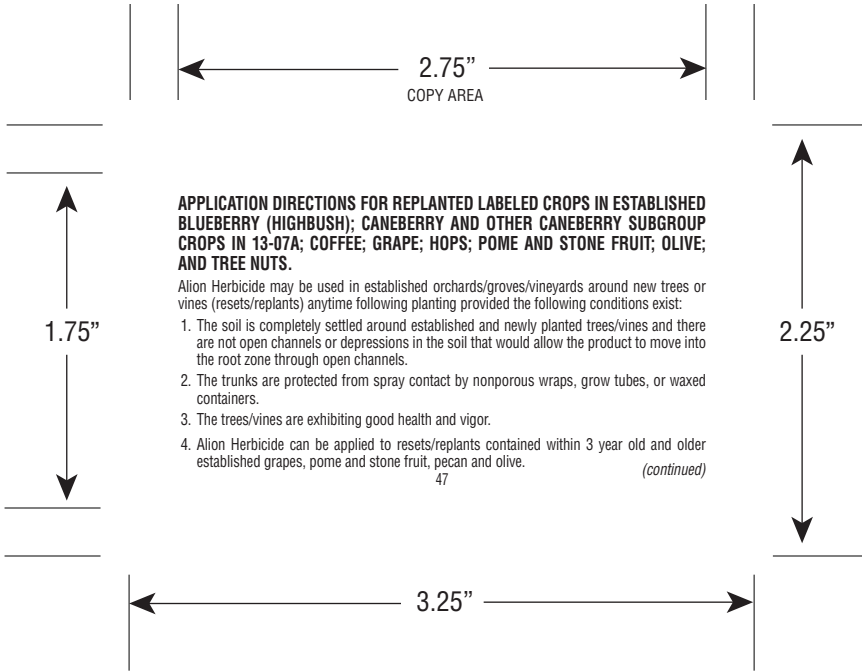
**Dose Rate Chart for Pome and Stone Fruit, Tree Nuts, and Olive.**

Soil Texture	Alion Herbicide (fl oz product / broadcast acre)			
	Soil percent Organic Matter Content	Rate Per Application	Max Rate Per Year	Minimum Days Between Applications
Any soil except those that contain 20% or greater gravel content	%	fl oz/A	fl oz/A	Days
	<1	3.5 (0.045 lb ai/A)	7.0 (0.091 lb ai/A)	90
	1 to 3	3.5 to 5.0 (0.045 to 0.065 lb ai/A)	8.5 (0.11 lb ai/A)	
	> 3	5.0 to 6.5 (0.065 to 0.085 lb ai/A)	10.3 (0.134 lb ai/A)	

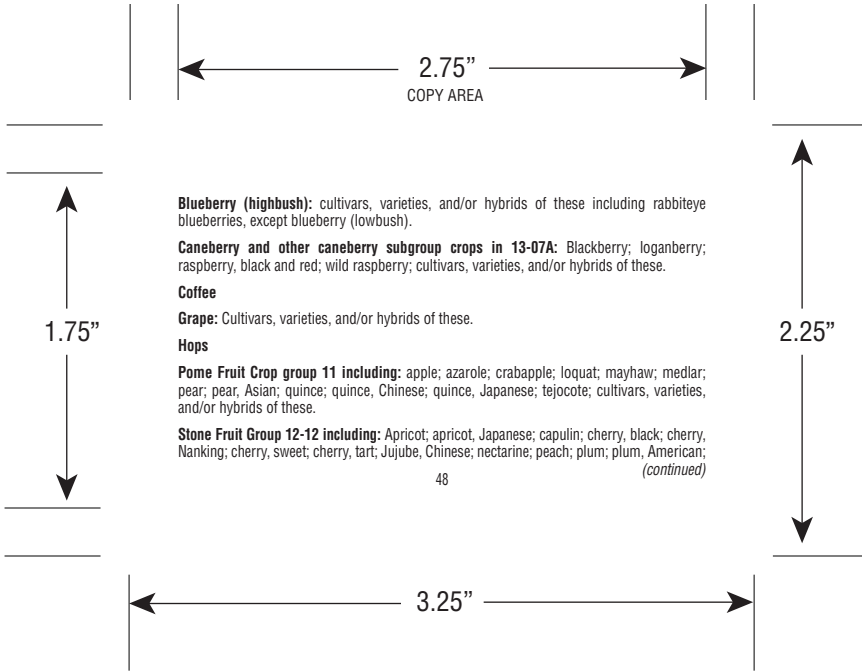
*(continued)*

← 3.25" →









**Blueberry (highbush):** cultivars, varieties, and/or hybrids of these including rabbiteye blueberries, except blueberry (lowbush).

**Caneberry and other caneberry subgroup crops in 13-07A:** Blackberry; loganberry; raspberry, black and red; wild raspberry; cultivars, varieties, and/or hybrids of these.

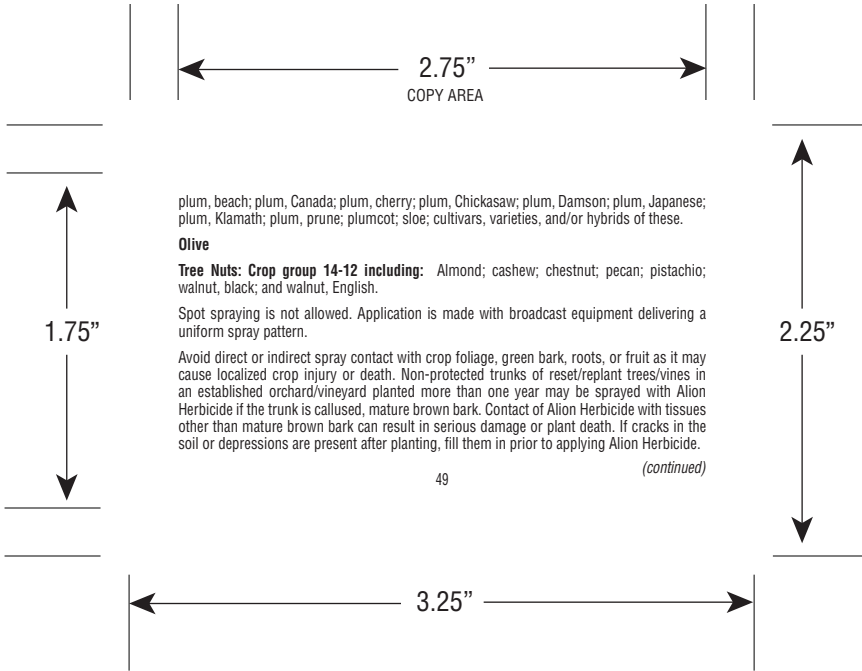
**Coffee**

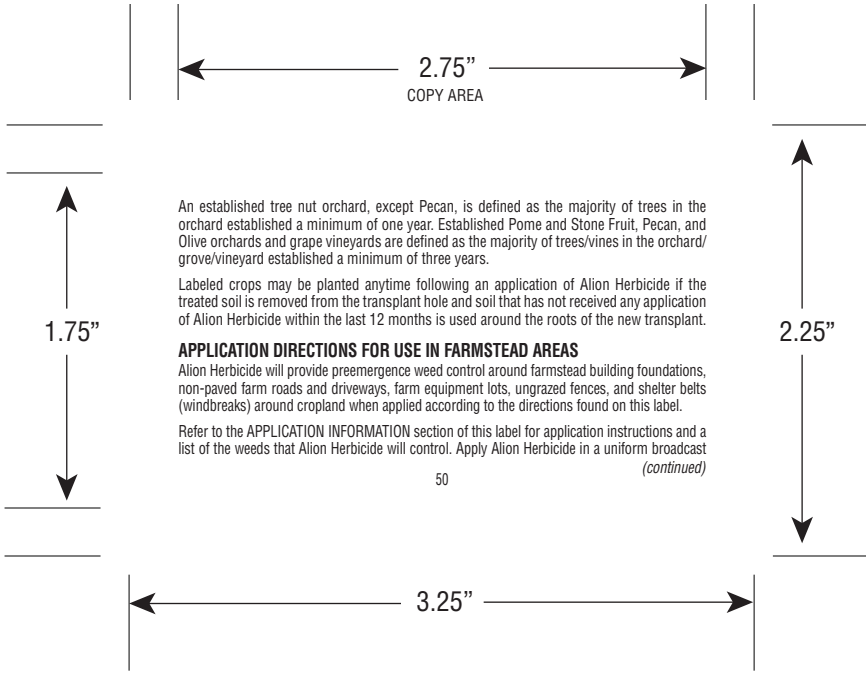
**Grape:** Cultivars, varieties, and/or hybrids of these.

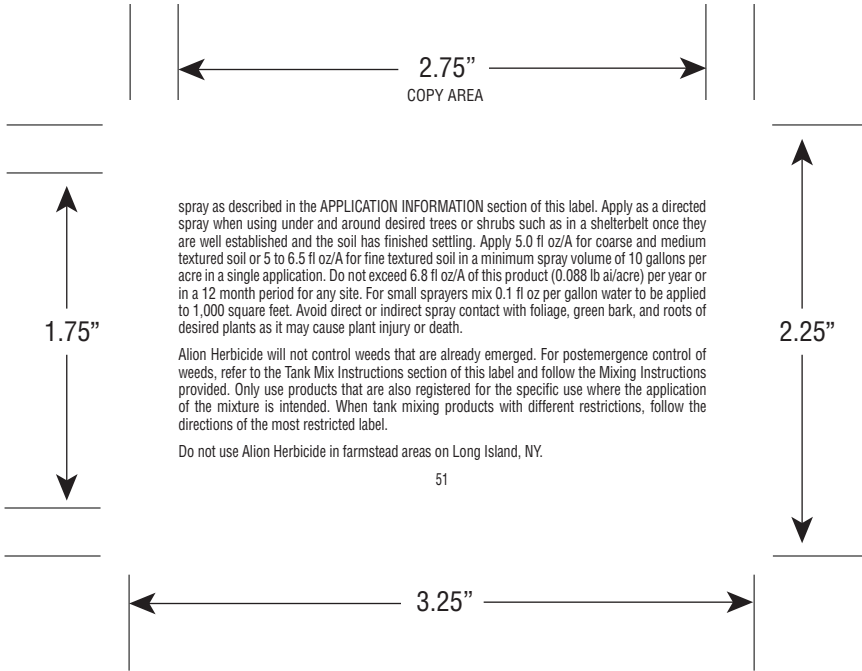
**Hops**

**Pome Fruit Crop group 11 including:** apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these.

**Stone Fruit Group 12-12 including:** Apricot; apricot, Japanese; capulin; cherry, black; cherry, Nanking; cherry, sweet; cherry, tart; Jujube, Chinese; nectarine; peach; plum; plum, American;  
*(continued)*







2.75"  
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**SPRAYER CLEANUP PROCEDURE**

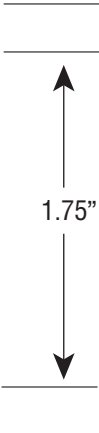
Before and after using Alion Herbicide, thoroughly clean all mixing and spray equipment, including tanks, pumps, lines, filters, screens, and nozzles with a good quality tank cleaner on an approved rinse pad or on the field site where an approved crop is being grown. Clean sprayer thoroughly after each use and before Alion Herbicide residue dries in the equipment. Proper PPE must be worn while cleaning.

1. Completely drain all remaining spray solution from the tank in an appropriate location.
2. Clean the sprayer using a commercially available tank cleaner following the use instructions provided by the manufacturer. A rotating cleaning nozzle may be beneficial to dislodge any product from the sides of the tank.
3. Drain all cleaning solution from the tank and lines in an appropriate location.
4. Rinse the tank and flush spray booms with clean water to remove the cleaning solution.
5. Remove, clean, and inspect filters, screens, nozzles, and boom end caps if equipped to ensure that no product remains.

1.75"

2.25"

3.25"

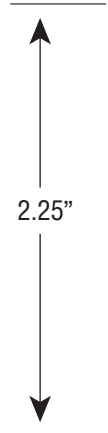
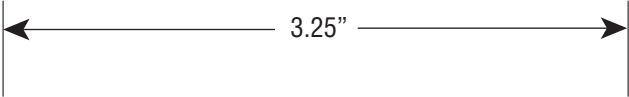


- 6. Rinse the inside and outside of the spray tank and all lines once more with clean water.
  - 7. Drain all rinse solution in an appropriate location.
- If any Alion Herbicide is left in the spray equipment and subsequently applied to another crop, it has the potential to cause injury to that crop.

**ROTATIONAL CROP RESTRICTIONS**

Alion Herbicide is intended for use in perennial tree and vine crops listed in this label and for non-crop farmstead uses. Do not rotate to any crops not listed on this label within 24 months after the last application. Planting earlier than this may result in crop injury or death. If a crop is not on this label, a bioassay should be conducted prior to planting if Alion Herbicide has been used in the previous 36 months. A successful field bioassay means growing a test strip or several plots of the intended crop from seed or transplant to maturity without any observed herbicide symptoms. The test should be conducted in representative areas across the field that includes knolls, low areas, field edges, and changes in soil texture. The rotational crop interval must be extended if the field bioassay does not result in acceptable crop tolerance.

*(continued)*



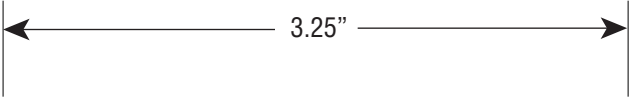
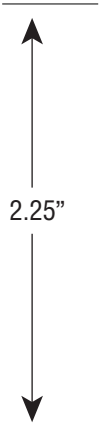


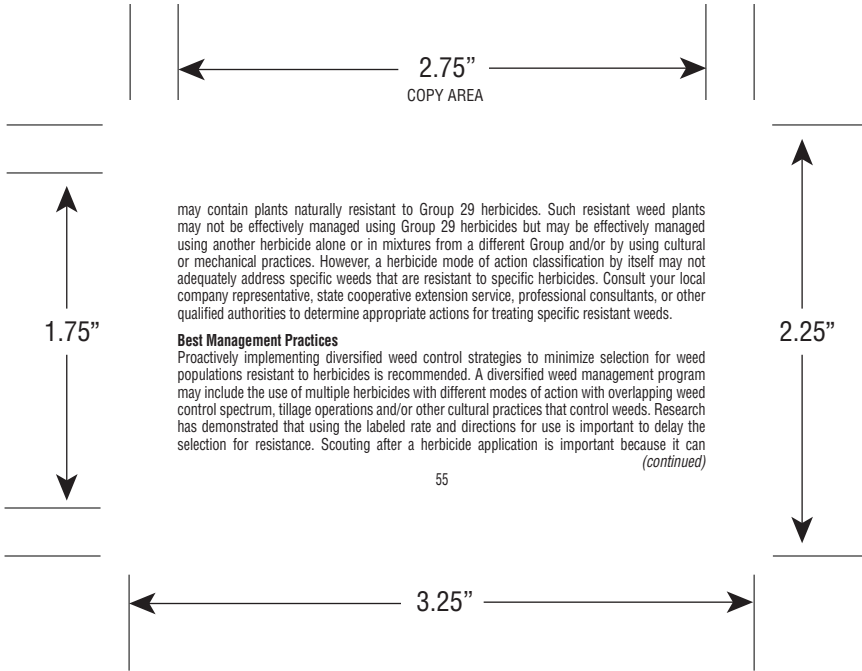
Labeled citrus crops may be transplanted into soil previously treated with Alion Herbicide 1 month or more after the last application provided potted trees (such as citripots) are used.

New orchards of labeled pome and stone fruit, tree nut, and olive may be established in a location previously treated with Alion Herbicide 1 year after application. Grape vineyards may be established in a location previously treated with Alion Herbicide 2 years after application. In labeled pome and stone fruit, tree nuts, grapes, and olive previously treated soil must be thoroughly mixed to a depth of at least 6 inches prior to planting. This may be done through any combination of tillage operations such as ripping, disking, or plowing.

If other herbicides have also been used, follow the most restrictive label for the crop rotation interval.

**RESISTANCE MANAGEMENT**  
Indaziflam, the active ingredient in this product, is a Group 29 herbicide based on the mode of action classification system of the Weed Science Society of America. A given weed population  
*(continued)*







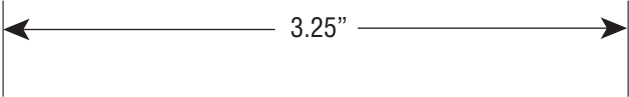


facilitate the early identification of weed shifts and/or weed resistance and thus provide direction on future weed management practices. One of the best ways to contain resistant populations is to implement measures to avoid allowing weeds to reproduce by seed or to proliferate vegetatively. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in retarding the spread of resistant weed seed.

There are no known cases of weed resistance to Alion Herbicide or any known instances of cross-resistance between Alion Herbicide and other classes of herbicides or modes of action. Research has shown that performance of Alion Herbicide is not affected by the presence of biotypes resistant to glyphosate, triazines, ALS-inhibiting, growth regulant, or other herbicide modes of action.

To delay the development of herbicide resistance, the following practices are recommended:

- Use herbicides with different modes of action in the tank mixture, rotation, or in conjunction with alternate cultural practices.



2.75"

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1.75"

- Always use at least the minimum rate specified by the label and observe all use rate instructions.
- Avoid the consecutive use of Alion Herbicide unless another herbicide that is effective on the same target weeds is used in rotation or as a tankmix partner.
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitor treated areas and control escaped weeds by alternate means.
- Contact local extension or crop advisor for IPM and resistance management information.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Protect the product from freezing temperatures. Store the product at temperatures above 32°F and preferably above 40°F.

*(continued)*

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2.25"

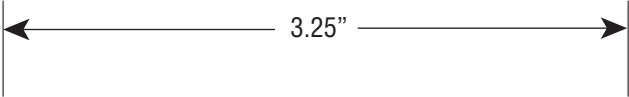
3.25"



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

**CONTAINER HANDLING**  
**Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)**

Non-refillable container. Do not reuse or refill this container. 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.





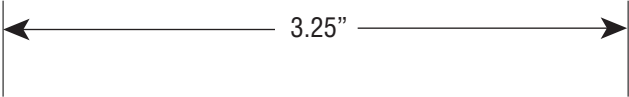
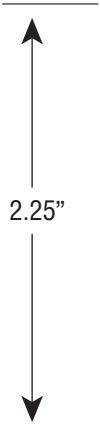
Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.  
Offer for recycling, if available or reconditioning, if appropriate. Then puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

*(continued)*



2.75"

COPY AREA

1.75"

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

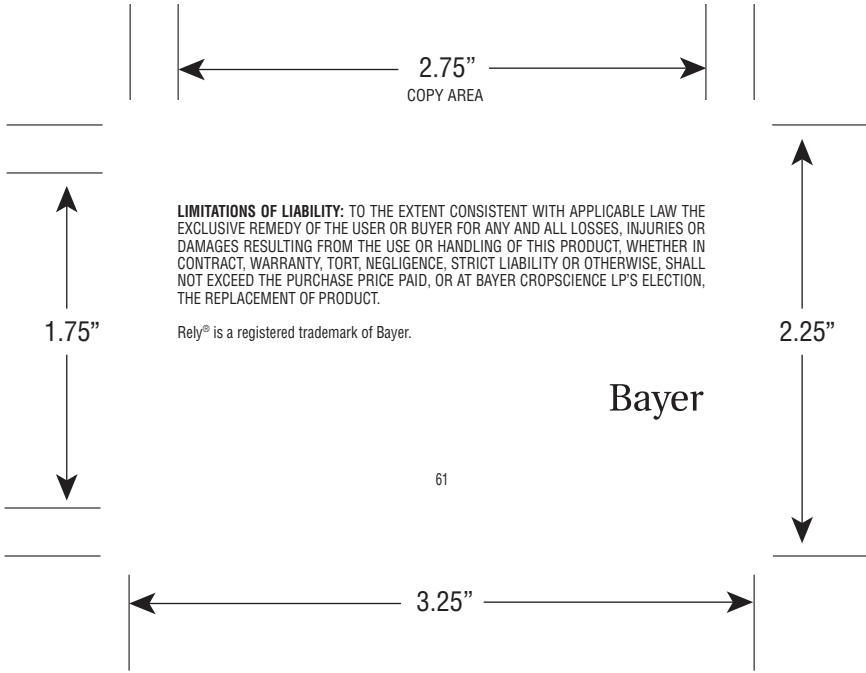
**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

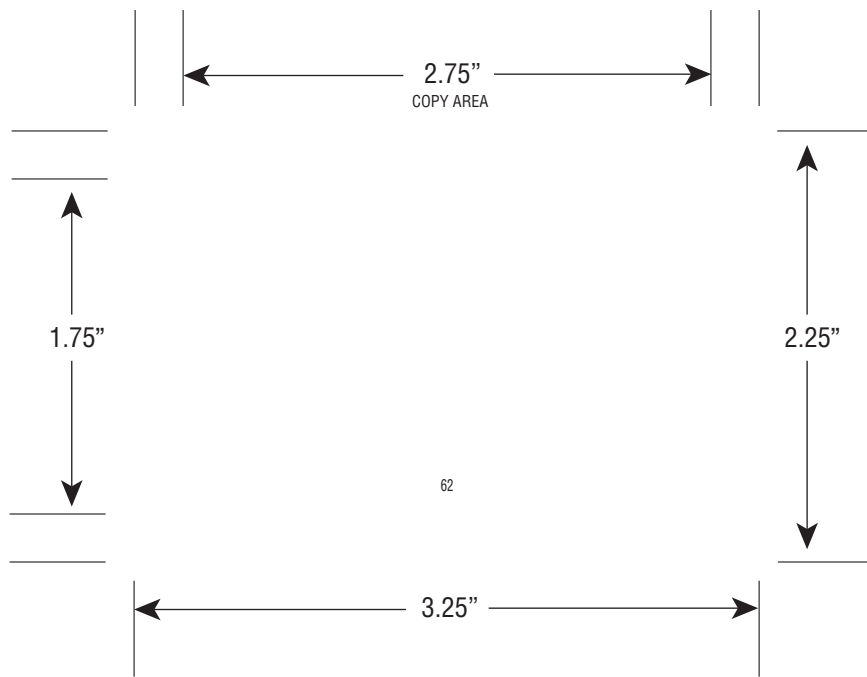
60

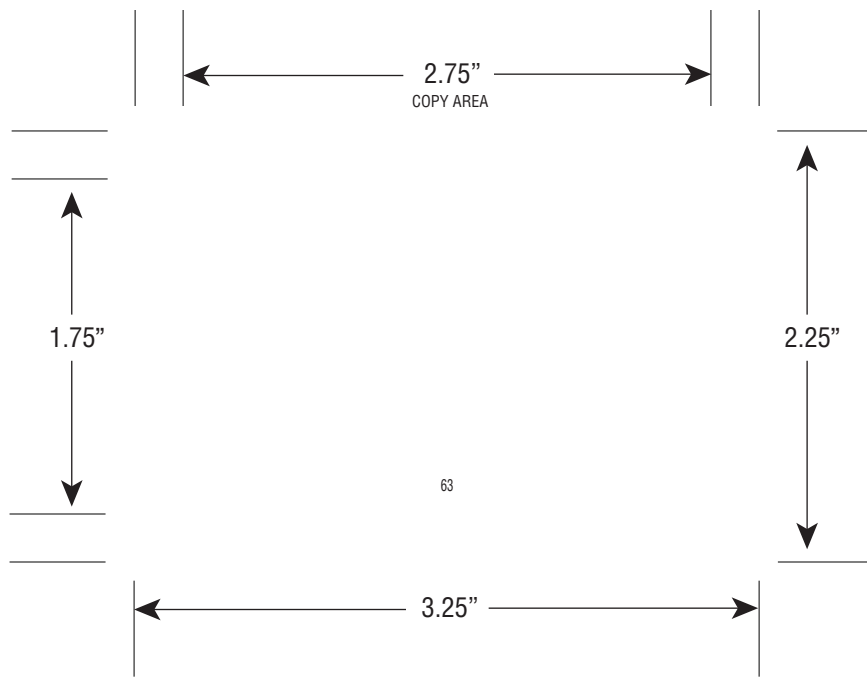
(continued)

2.25"

3.25"









BASE LABEL

.8125"

2.875"

.5625"

COPY AREA

2"

2.25"

4.25"

NET CONTENTS: 1 QT. (32 FL. OZ.)

**Alion® Herbicide**

For Preemergent Weed Control in Blueberry (Highbush); Caneberry and other Caneberry Subgroup Crops in 13-07A; Citrus; Coffee; Grape; Hops; Pome and Stone Fruit, Tree Nuts, and Olive.

ACTIVE INGREDIENT: Indaziflam\* . . . . . 19.05%  
OTHER INGREDIENTS: . . . . . 80.95%  
Contains 1.67 pounds TOTAL: 100.00%  
of indaziflam per gallon. \*(CAS No: 730979-19-8)

EPA Reg. No. 264-1106

**KEEP OUT OF REACH  
OF CHILDREN  
CAUTION**

**GROUP 29 HERBICIDE**

For MEDICAL and TRANSPORTATION Emergencies  
ONLY Call 24 Hours A Day 1-800-334-7577  
For PRODUCT USE Information Call  
1-866-99BAYER (1-866-992-2937)

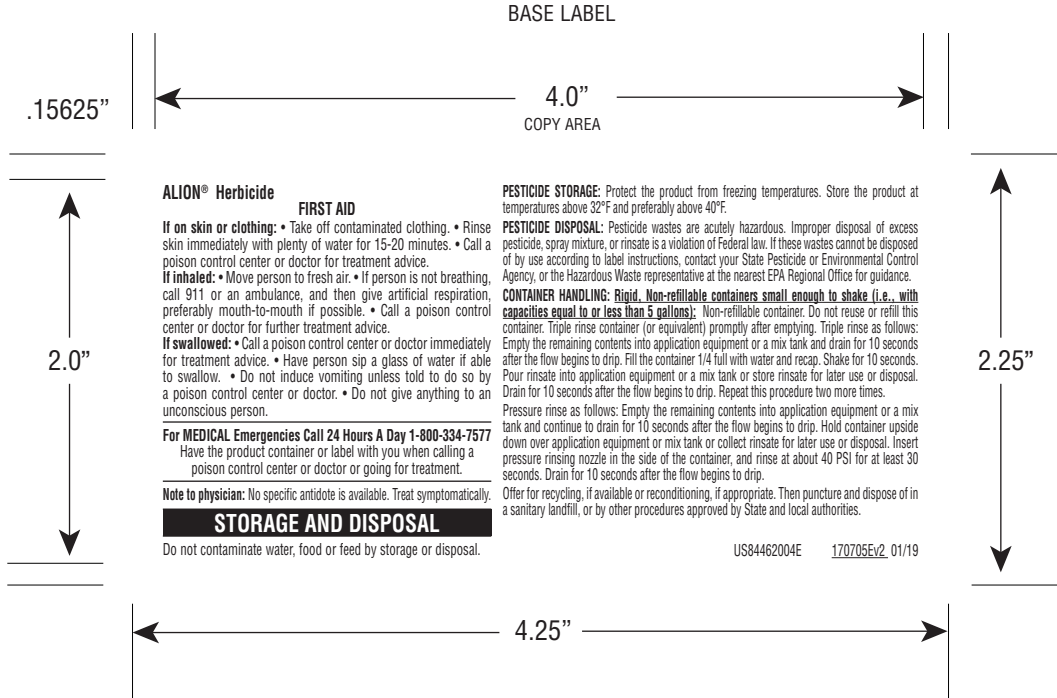
See additional precautionary statements and directions for use on label.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed, absorbed through the skin or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing mist.

Bayer CropScience LP  
800 N. Lindbergh Blvd.  
St. Louis, MO 63167

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