

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

April 18, 2018

Mary Beth Endres Registration manager Liberty Crop Protection, LLC 1800 Fall River Drive, Suite 100 Loveland, CO 80538

Subject: Label Amendment – Correct typographical errors, general label updates Product Name: Liberty Clethodim 1 EPA Registration Number: 89168-76 Application Date: 02/01/2018 Decision Number: 538228

Dear Ms. Endres:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one 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 the Federal Insecticide Fungicide and Rodenticide Act 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) list 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 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

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with FIFRA section 6. If you have any questions, please contact Lisa Pahel by phone at (703) 347-0459, or via email at <u>pahel.lisa@epa.gov</u>.

Sincerely,

Info

Erik Kraft, Product Manager 24 Fungicide and Herbicide Branch Registration Division (7505P) Office of Pesticide Programs

# **LIBERTY CLETHODIM 1**

For Use on Listed Crops

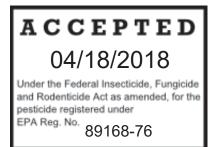
ACTIVE INGREDIENT: *Clethodim	<b>% BY WT.</b> 12.6%
OTHER INGREDIENTS**:	
TOTAL:	
*(E)-2-[1[((3-chloro-2-propenyl)-oxy)imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one	
**Contains Petroleum Distillates	
Contains 0.97 lbs. clethodim per gallon.	

## KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

## For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS.



EPA Reg. No.: 89168-76

EPA Est. No.: \_\_\_\_\_

NET CONTENTS: \_\_\_\_GAL (\_\_\_\_L)

Manufactured for: LIBERTY CROP PROTECTION, LLC 1880 Fall River Drive, Suite 100 Loveland, CO 80538

FIRST AID						
IF	Immediately call a poison control center or doctor.					
SWALLOWED:	• Do not induce vomiting unless told to do so by a poison control center or doctor.					
	Do not give <b>any</b> liquid to the person.					
	<ul> <li>Do not give anything by mouth to an unconscious person.</li> </ul>					
IF ON SKIN OR	Take off contaminated clothing.					
CLOTHING:	<ul> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> </ul>					
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>					
IF IN EYES:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> </ul>					
	• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.					
	Call a poison control center or doctor for treatment advice.					
IF INHALED:	Move person to fresh air.					
	• If person is not breathing, call 911 or an ambulance, then give artificial respiration,					
	preferably by mouth-to-mouth, if possible.					
	<ul> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>					
	HOTLINE NUMBER					
Have the product	container or label with you when calling a poison control center or doctor, or going for					

treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at **1-800-858-7378** or your poison control center at **1-800-222-1222**.

For Chemical Spill, Leak, Fire or Exposure, call CHEMTREC 800-424-9300.

## NOTE TO PHYSICIAN

Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis. If ingested, probable mucosal damage may contraindicate the use of gastric lavage.

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

Harmful if swallowed. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate or viton  $\ge$  14 mils, shoes plus socks, and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

## USER SAFETY RECOMMENDATIONS

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

#### Non-Target Organisms 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.

The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist:

Solano Grass: Solano County, California: the vernal lakes are bounded by the Union Pacific Railroad and Hastings Road to the north, Highway 113 to the east, Highway 12 to the south, and Travis Air Force Base to the west.

Wild Rice: Hays County, Texas.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow into contact with oxidizing agents. Harmful chemical reaction may occur.

## **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. 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 instructions and exceptions pertaining to the 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 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls over short-sleeved shirt and short pants, chemical-resistant gloves, such as barrier laminate or viton  $\geq$  14 mils and 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 Standard 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 treated areas without protective clothing until sprays have dried.

#### **RESISTANCE MANAGEMENT**

For resistance management, this product is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 1 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

## Weed Management

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

- Rotate the use of this product or other Group 1 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in the 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 resistance-prone 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.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. 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 such as 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 resistancemanagement and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact LIBERTY CROP PROTECTION, LLC at [855-466-8428 or 844-425-8488 or other appropriate telephone number].

#### **Management of Resistant Biotypes**

The following good agronomic practices are recommended to reduce the spread of resistant biotypes:

- If a naturally occurring resistant biotype is present in your application site, this product should be tank
  mixed or applied sequentially with an appropriately labeled herbicide with a different mode of action to
  achieve control.
- Cultural and mechanical control practices (e.g. crop rotation or tillage) may also be used as appropriate.
- Scout treated application site after herbicide applications and control escaping weeds including resistant biotypes before they set seed.
- Thoroughly clean equipment before leaving fields known to contain resistant biotypes.
- Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant
  weeds to this Mode of Actions have been found in your region. If resistant biotypes of target weeds have
  been reported, use the application rates of this product specified for your local conditions. Tank mix
  products so that there are multiple effective mechanisms of actions for each target weed.

#### **Integrated Pest (Weed) Management**

This product may be integrated into an overall weed pest management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

#### **TANK MIXES**

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. It is the pesticide user's

responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## PRODUCT INFORMATION

**FOR USE ON:** Crop Subgroup 1B: Vegetable, root (except sugar beet)<sup>1</sup>, Crop Subgroup 1C: Vegetable, tuberous and corm<sup>2</sup>, Crop Subgroup 3-07A, Onion, bulb<sup>3</sup>, Crop Subgroup 4A: Leafy Greens<sup>4</sup>, Crop Subgroup 4B: Leaf petioles<sup>5</sup>, Crop Subgroup 5A: Brassica, head and stem<sup>6</sup>, Crop Subgroup 5B: Brassica, leafy greens<sup>7</sup>, Crop Subgroup 6A: Edible-podded legume vetetables<sup>8</sup>, Crop Subgroup 6B, Succulent shelled pea and bean<sup>9</sup>, Crop Subgroup 9A, Melon<sup>12</sup>, Crop Subgroup 9B, Squash/cucumber<sup>13</sup>, Crop Group 8-10: Vegetable, fruiting<sup>11</sup>, Crop Subgroup 9A, Melon<sup>12</sup>, Crop Subgroup 9B, Squash/cucumber<sup>13</sup>, Crop Group 11-10: Fruit, pome<sup>14</sup>, Crop Group 12-12: Fruit, stone<sup>15</sup>, Crop Subgroup 13-07A: Caneberry<sup>16</sup>, Crop Subgroup 13-07B: Bushberry<sup>17</sup>, Crop Subgroup 13-07G: Berry Low Growing, (except cranberry)<sup>18</sup>, Crop Subgroup 19A: Herbs<sup>19</sup>, Canola<sup>\*</sup>, including Crop Subgroup 20A: Rapeseed (except flax seed)<sup>20</sup>, Crop Subgroup 20B: Sunflower<sup>21</sup>, Alfalfa, Artichoke (Globe), Asparagus, Clover (grown in Idaho, Oregon and Washington only), Conifers, Cotton (including cotton grown for seed), Cranberry, Fallow Land (and other non-producing agricultural areas), Field Corn<sup>22</sup>, Flax<sup>\*</sup>, Hops, Mint (peppermint and spearmint), Non-Bearing Food Trees, Non-Crop or Non-Planted areas, Onion (green), Ornamentals, Peanut, Radish, tops, Soybean, Stevia (dried leaves), Sugar Beet, Turnip Greens.

- <sup>1</sup> Crop Subgroup1B crops approve for use with this product include: beet, garden; burdock, edible; carrot; celeriac; chervil, turnip-rooted; chicory; ginseng; horseradish; parsley, turnip-rooted; parsnip; radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; turnip.
- <sup>2</sup> Crop Subgroup1C crops approve for use with this product include: arracacha; arrowroot; artichoke, Chinese, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen; ginger, leren; potato; sweet potato; tanier; turmeric, yam bean, yam, true.
- <sup>3</sup> Crop Subgroup 3-07A crops approve for use with this product include: daylilly, bulb; fritillaria, bulb; garlic, bulb; garlic, great-headed; garlic, serpent, bulb; lily, bulb; onion, bulb; onion, Chinese, bulb; onion pearl; onion, potato, bulb; shallot, bulb; cultivars, varieties, and/or hybrids of these.
- <sup>4</sup> Crop Subgroup 4A crops approved for use with this product include: amaranth; arugula; chervil; chrysanthemum, edible-leaved; chrysanthemum, garland; corn salad; cress, garden; cress, upland; dandelion; dock; endive; lettuce; orach; parsley; purslane, garden; purslane, winter; radicchio (red chicory); spinach; spinach, New Zealand; spinach, vine; cultivars, varieties, and/or hybrids of these.
- <sup>5</sup> Crop Subgroup 4B crops approved for use with this product include: cardoon; celery; celery, Chinese; celtuce; fennel, Florence; rhubarb; Swiss chard; cultivars, varieties, and/or hybrids of these.
- <sup>6</sup> Crop Subgroup 5A crops approved for use with this product include: Broccoli, broccoli, Chinese; Brussels sprouts; cabbage; cabbage, Chinese (napa); cabbage, Chinese mustard; cauliflower; cavalo broccoli; kohlrabi; cultivars, varieties, and/or hybrids of these.
- <sup>7</sup> Crop Subgroup 5B crops approved for use with this product include: Broccoli raab; cabbage, Chinese (bok choy); collards; kale; mizuna; mustard greens; mustard spinach; rape greens; cultivars, varieties, and/or hybrids of these.
- <sup>8</sup> Crop Subgroup 6A crops approved for use with this product include: Bean (*Phaseoulus* spp. (includes runner bean, snap bean and wax bean); bean (*Vigna* spp.) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean; jackbean; pea (*Pisum* spp.) (includes dwarf pea, edible-pod pea, snow pea, sugar snap pea); pigeon pea; soybean (immature seed); sword bean.
- <sup>9</sup> Crop Subgroup 6B crops approved for use with this product include: Bean (*Phaseolus* spp.) (includes lima bean (green)); broad bean (succulent); bean (*Vigna* spp.) (includes black-eyed pea, cowpea, Southern pea); pea (*Pisum* spp.) (includes English pea, garden pea, green pea); pigeon pea.
- <sup>10</sup> Crop Subgroup 6C crops approved for use with this product include: Dried cultivars of bean (*Lupinus* spp.) (includes grain lupin, sweet lupin, white lupin and white sweet lupin); bean (*Phaseolus* spp.) (includes field bean kidney bean, lima bean (dry), navy bean, pinto bean and tepary bean); bean (*Vigna* spp.) (includes adzuki bean, black-eyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean; lentil; Pea (*Pisum* spp.) (includes field pea); pigeon pea.
- <sup>11</sup> Crop Group 8-10 crops approved for use with this product include: African eggplant; bush tomato; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea

eggplant; pepino; pepper, bell; pepper, non-bell; roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these.

- <sup>12</sup> Crop Subgroup 9A crops approved for use with this product include: Citron melon; muskmelon; watermelon; cultivars, varieties, and/or hybrids of these.
- <sup>13</sup> Crop Subgroup 9B crops approved for use with this product include: Chayote (fruit); Chinese waxgourd; cucumber; gherkin; gourd, edible; *Momordica* spp.; pumpkin; squash, summer; squash, winter; cultivars, varieties, and/or hybrids of these.
- <sup>14</sup> Crop Group 11-10 crops approved for use with this product include: apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these.
- <sup>15</sup> Crop Group 12-12 crops approved for use with this product include: apricot; apricot, Japanese; capulin; cherry, black; cherry, nanking; cherry, sweet; cherry, tart; Chinese jujube; nectarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, damson; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; cultivars, varieties, and/or hybrids of these.
- <sup>16</sup> Crop Subgroup 13-07A crops approved for use with this product include: blackberry; loganberry; raspberry, red and black; wild raspberry; cultivars, varieties and/or hybrids of these.
- <sup>17</sup> Crop Subgroup 13-07B crops approved for use with this product include: aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; Chilean guava; currant, black; currant, red; elderberry; European, barberry; gooseberry cranberry, highbush; honeysuckle, edible; huckleberry; jostaberry; Juneberry; lingonberry; native currant; salal; sea buckthorn; cultivars, varieties and/or hybrids of these.
- <sup>18</sup> Crop Subgroup 13-07G (except Cranberry) crops approved for use with this product include: bearberry; bilberry; blueberry, lowbush; cloudberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties and/or hybrids of these.
- <sup>19</sup> Crop Subgroup 19A crops approved for use with this product include: angelica; balm; basil; borage; burnet; chamomile; catnip; chervil (dried); chive; chive, Chinese; clary; coriander (leaf); costmary; cilantro (leaf); curry (leaf); dillweed; horehound; hyssop; lavender; lemongrass; lovage (leaf); marigold; marjoram (*Origanum* spp.); nasturtium; parsley (dried); pennyroyal; rosemary; rue; sage; savory, summer and winter; sweet bay; tansy; tarragon; thyme; wintergreen; woodruff; and wormwood.
- <sup>20</sup> Crop Subgroup 20A (except flax seed) crops approved for use with this product include: borage; crambe; cuphea; echium; gold of pleasure; hare's ear mustard; lesquerella; lunaria; meadowfoam; milkweed; mustard seed; oil radish; poppyseed; rapeseed; sesame; sweet rocket; cultivars, varieties and/or hybrids of these.
- <sup>21</sup> Crop Subgroup 20B crops approved for use with this product include: calendula; castor oil plant; Chinese tallowtree; euphorbia; evening primrose; jojoba; niger seed; rose hip; safflower; stokes aster; sunflower; tallowood; tea oil plant; veronica; cultivars, varieties and/or hybrids of these.
- <sup>22</sup> For burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn.

LIBERTY CLETHODIM 1 is a selective postemergence herbicide for control of annual and perennial grasses. LIBERTY CLETHODIM 1 does not control sedges or broadleaf weeds.

## Precautions

- Grass crops including corn, rice, small grains, sorghum or turf, etc. are highly sensitive to this product.
- This product is not directed for use on vegetable crops being grown for seed production unless specific use directions are provided.
- Optimal perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Cultural practices, such as continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up, results in a very staggered, non-uniform weed emergence. Due to this non-uniform weed emergence, no fewer than two applications of this product per year are directed at the appropriate weed-growth stage rate under continuous no-till conditions.
- While all the vegetable crops on this label have been tested and are not sensitive to this product, not all specialty varieties of these crops have been tested. It is advised that, before applying this product to specialty varieties of vegetable crops on this label, crop safety be investigated first using a small section of the field. It is possible that injury symptoms can occur. Symptoms may appear as leaf speckling or stunting.

• Tank mixes of this product and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of this product may be necessary.

#### Restrictions

- In Nassau and Suffolk Counties of New York State, application rate is limited to 32 fl oz of this product (0.25 lb. a.i.) per acre per year.
- Do not apply if rain is expected within 1 hour of application, as control may be unsatisfactory.
- Do not plant rotational crops until 30 days after application of this product unless crop is listed on this product's label.
- Do not apply a postemergence broadleaf herbicide within one day following application of this product or reduced grass control may result.
- Do not apply under conditions of stress. Applying this product under conditions that do not promote active grass growth will reduce herbicide effectiveness. These conditions include drought, excessive water, extremes in temperature, low humidity and grasses either partially controlled or stunted from prior pesticide applications. Grasses under these kinds of stressful conditions will not absorb and translocate this product effectively, and will be less susceptible to herbicide activity.
- For tank mixes, 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.
- Aerial applications for all tree fruits and tree nuts uses are prohibited.

#### **Control Symptoms**

Treated grass weeds show a reduction in vigor and growth. Early chlorosis/necrosis of younger plant tissue is followed by a progressive collapse of the remaining foliage. Symptoms will generally be observed in 7 to 14 days after application, depending on grass species treated and environmental conditions.

## **APPLICATION INFORMATION**

#### Timing of Applications

Apply LIBERTY CLETHODIM 1 postemergence to actively growing grasses according to rate table instructions. Applications made to grass plants stressed by insufficient moisture, or hot or cold temperatures, or to grass plants exceeding listed growth stages may result in unsatisfactory control. **Restriction:** Do not apply under these conditions.

In arid regions where irrigation is used to supplement limited rainfall, apply LIBERTY CLETHODIM 1 as soon as possible, after irrigation (within 7 days). In arid regions, a second application of LIBERTY CLETHODIM 1 will generally provide more effective control of perennial grass weeds than a single application. Make second application to actively growing grass 2 to 3 weeks after emergence of new growth.

Cultivation of treated grasses 7 days prior to or within 7 days after application of LIBERTY CLETHODIM 1 may reduce weed control.

#### **Ground Application**

Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Use a minimum of 5 gallons and a maximum of 40 gallons of spray solution per acre. Under the following conditions a minimum of 10 gallons per acre is required: ultra narrow row cotton, narrow row soybeans, broadleaf herbicide tank mixes, perennial grasses, volunteer corn, drought or stress conditions, heavy grass pressure or when grasses are at or near maximum height. Failure to use a minimum of 10 gallons per acre under these conditions can result in poor coverage and reduced grass control requiring repeat applications. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle.

Applications to garlic or onions (dry bulbs and green) should be made in a minimum of 20 gallons of spray solution per acre.

#### Air Application

Use a minimum of 3 gallons of spray solution per acre unless otherwise directed in this label. Increase spray volumes up to 10 gallons as grass or crop foliage becomes dense. For garlic or onions (dry bulbs and green):

When applying by air do not exceed 16 fl oz per acre in a single application. In California, air applications to garlic or onions (dry bulbs and green) should be made in a minimum of 20 gallons of spray solution per acre. In states other than California, air application to garlic or onions (dry bulbs and green) should be made in a minimum of 10 gallons of spray solution per acre.

## Spot Treatment

When using hand sprayers or high volume sprayers utilizing hand guns, mix 1/3 to 2/3% (0.44 – 0.85 oz per gallon) LIBERTY CLETHODIM 1 and treat to wet vegetation, while not allowing runoff of spray solution. For uses requiring crop oil concentrate, include crop oil concentrate at 1% (1.3 oz. per gallon) by volume. For uses requiring non-ionic surfactant, include non-ionic surfactant at 1.4% (0.33 oz. per gallon) by volume).

## Precautions

• Air Application: Crop injury may occur when LIBERTY CLETHODIM 1 is applied to garlic or onions with aerial equipment.

## Restriction

- Ground Application: Do not use flood nozzles.
- **Spot Treatment:** Do not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.

### CHEMIGATION – GARLIC AND ONIONS (Dry Bulb and Green) SPRINKLER IRRIGATION APPLICATION

May be applied to garlic and onions by sprinkler irrigation systems.

Apply this product at the high rate specified for annual grasses (32 fl oz per acre) when the grass height is at the low end of the range (application to larger grasses may not provide adequate control). Add a crop oil concentrate containing at least 15% emulsifier at 1 quart per acre for non-ionic surfactant with at least 80% active ingredient at 0.25% v/v of total spray solution.

Apply this product in 0.1 to 0.2 acre-inch of water either at the end of a regular irrigation set or as a separate application not associated with a regular irrigation using the least amount of water that provides proper distribution and coverage. Application of more than label directed quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness. Use a metering device to inject this product into the irrigation water at a constant flow. Constant agitation must be maintained in the chemical supply tank during the entire period of herbicide application. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period.

Do not apply this product through an irrigation system connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

#### Precautions

- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.
- If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- A person knowledgeable of the chemigation system and responsible for its operation or under supervision of the responsible person, must shut the system down and make necessary adjustments should the need arise.

## Restrictions

- Do not apply this product by chemigation in the states of Idaho, Montana, Oregon and Washington.
- Do not apply by chemigation to any other crop, or to this crop using any other type of irrigation system.
- Do not apply this product through any other type of irrigation system.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Apply this product only through irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move.
- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally close solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

#### MANDATORY SPRAY DRIFT MANAGEMENT SPRAY DRIFT

## Aerial Applications

- 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 are required to use a coarse or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

## **Ground Applications**

- Apply with the nozzle height recommended 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 are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 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 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 recommended 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 manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

#### **BOOM HEIGHT – Ground Boom**

For ground equipment, the boom should 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, set up equipment to produce 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 OR WINDLESS CONDITIONS.

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

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
Crop Subgroup 1B: Vegetable, root (except sugar beet) including: beet, garden burdock, edible carrot celeriac chervil, turnip- rooted chicory ginseng horseradish parsley, turnip- rooted parsnip radish	30 days	9 – 16 fl oz	12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None

## Table 1. CROP SPECIFIC USE DIRECTIONS AND RESTRICTIONS FOR LIBERTY CLETHODIM 1

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
radish, oriental rutabaga salsify salsify, black salsify, Spanish skirret turnip					
For repeat application	ns make on a min	imum of a 14 c	lay interval.		
Restrictions:	U 10 U (0	404			
<ul><li>Do not apply mor</li><li>Do not apply mor</li></ul>					
<ul> <li>Do not make mor</li> </ul>				-	
Crop Subgroup	30 days	9 – 16	12 – 32	Non-ionic Surfactant	None
1C: Vegetable,		floz	floz	(NIS) at 0.25% v/v	
tuberous and				, , , , , , , , , , , , , , , , , , ,	
corm including:				Potato:	Potato:
arracacha				Non-ionic Surfactant	2.5 to 4 lbs/A
arrowroot				(NIS) at 0.25% v/v	
artichoke,				Or Cran Oil Concentrated/	
Chinese Jerusalem				Crop Oil Concentrated/ Methylated Seed Oil at	
canna, edible				1 qt/A or 1% v/v	
cassava,					
bitter and sweet					
chayote (root)					
chufa					
dasheen					
ginger Ieren					
potato					
sweet potato					
tanier					
turmeric					
yam bean					
yam, true	o maka an a min	incum of a 14 c	lovintorvol		
For repeat applicatior <b>Restrictions:</b>	is make on a min		lay interval.		
<ul> <li>Do not apply mor</li> </ul>	e than 32 fl oz (0	.242 lb a.i.) pe	r acre per appl	lication.	
Do not apply mor					
<ul> <li>Do not make mor</li> </ul>					1
Crop Subgroup 3-	45 days	9 – 16	12 – 32	Non-ionic Surfactant	None
07A: Onion bulb <sup>(7,</sup> <sup>8)</sup> including:		fl oz	fl oz	(NIS) at 0.25% v/v	
daylilly, bulb					
fritillaria, bulb					
garlic, bulb					
garlic, great-headed					
garlic, serpent, bulb					
lily, bulb					
onion, bulb					
onion, Chinese, bulb					
onion pearl					
onion, potato, bulb					
shallot, bulb					

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
cultivars, varieties, and/or hybrids of these.					
For repeat application Minimum of 20 gallon Minimum of 20 gallon In states other than C <b>Restrictions:</b> • Do not apply mor • Do not apply mor • Do not make mor	s per acre spray s per acre spray california, air appli re than 32 fl oz (0 re than 64 fl oz (0	volume by gro volume by air i cations to garl .242 lb a.i.) pe .485 lb a.i.) pe	und in the entir in California. ic or onions sh r acre per appl r acre per year	ould be made in a minimur ication.	n of 10 gallons per acre
Do not make mor     Crop Subgroup	14 days	ations per yea 9 – 16	ar. 12 – 16	Non-ionic Surfactant	None
4A: Leafy Greens including: amaranth arugula chervil chrysanthemum, edible-leaved chrysanthemum, garland corn salad cress garden upland dandelion dock endive lettuce head leaf orach parsley purslane garden winter radicchio (red chicory) spinach spinach New Zealand vine cultivars, varieties, and/or hybrids of		fl oz	fl oz	(NIS) at 0.25% v/v	
these					
For repeat application	ns make on a min	imum of a 14 o	day interval.		
<ul> <li>Restrictions:</li> <li>Do not apply mor</li> <li>Do not apply mor</li> <li>Do not apply mor</li> </ul>	e than 64 fl oz (0	.485 lb a.i.) pe	r acre per year		
Do not make mor     Crop Subgroup	30 days	auons per yea 9 – 16	ar. 12 – 16	Non-ionic Surfactant	None
4B: Leaf petioles including: cardoon celery celery, Chinese	ou uays	9 – 16 fl oz	fl oz	(NIS) at 0.25% v/v	NOTE

ennel, Florence hubado Wiss chard Ultivars, varieties, and/or hybrids of these • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not make more than flour applications per year. • Do not make more than flour applications per year. • Do not make more than flour applications per year. • Do not make more than flour applications per year. • Do not make more than flour applications per year. • Do not make more than flour applications per year. • Do not make more than flour applications per year. • Do not make more than flour applications per year. • Do not make more than flour applications per year. • Do not apply more than 64 flour (0.425 lb a.i.) per acre per year. • Differ that applications make on a minimum of a 14 day interval. <b>Exercitions:</b> • Do not apply more than 64 flour (0.121 lb a.i.) per acre per application. • Do not apply more than 64 flour (0.121 lb a.i.) per acre per application. • Do	Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
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Swiss chard utitivars, varieties, and/or hybrids of these         Image: Comparison of the state of						
ultivars, varieties, and/or hybrids of these <ul> <li>and/or hybrids of these</li> <li>be not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>be not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>be not apply more than 16 fl oz (0.121 lb a.i.) per acre per year.</li> <li>Do not make more than four applications per year.</li> <li>Top Subgroup</li> <li>30 days</li> <li>9 - 16</li> <li>12 - 16</li> <li>fl oz</li> <li>fl oz</li> <li>fl oz</li> <li>kasta</li> <li>fl oz</li> <li>fl oz</li> <li>fl oz</li> <li>kasta</li> <li>fl oz</li> <li>fl oz</li> <li>kasta</li> <li>kasta<!--</td--><td></td><td></td><td></td><td></td><td></td><td></td></li></ul>						
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<ul> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not make more than four applications per year.</li> <li>Top Subgroup</li> <li>30 days</li> <li>9 - 16</li> <li>12 - 16</li> <li>Non-ionic Surfactant (NIS) at 0.25% v/v</li> <li>None</li> <li>None</li> <li>A: Brassica, and a stress of the stress of the</li></ul>		e than 16 fl oz (0	121 lb a i ) ne	r acre per appl	ication	
<ul> <li>Do not make more than four applications per year.</li> <li>Top Subgroup</li> <li>30 days</li> <li>9 - 16</li> <li>12 - 16</li> <li>Non-ionic Surfactant</li> <li>(NIS) at 0.25% v/v</li> <li>None</li> <li>A Brassica, intervention of the second se</li></ul>						
Crop Subgroup       30 days       9 – 16       12 – 16       Non-ionic Surfactant       None         A: Brassica, lead and stem neluding: proceoli       fi oz       fi oz       fi oz       fi oz       (NIS) at 0.25% v/v       None         A: Brassica, lead and stem neluding: proceoli       i						
Ai: Brassica, isolation       fl oz       fl oz       fl oz       (NIS) at 0.25% v/v         isolation       isolation       isolation       isolation       isolation         isolation       isolation       isolation       isolation       isolation       isolation         isolation       isolation       isolation       isolation       isolation       isolation       isolation         isolation       isolation       isolation       isolation       isolation       isolation       isolation       isolation       i					Non-ionic Surfactant	None
tead and stem       Image: Step of the set of th	5A: Brassica,	,	fl oz	fl oz	(NIS) at 0.25% v/v	
rroccoli rroccoli rroccoli rroccoli rroccoli rroccoli rroccoli rroccoli rroccoli rabbage, Chinese (napa) rabbage, Chinese mustard raulifower raulifo	head and stem				. ,	
proccoli, Chinese grussels sprouts abbage abbage, Chinese (napa) abbage, Chinese mustard autifiver availo broccoli cohrabi sultivars, varieties, and/or hybrids of these • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per per year. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per application. • Do not apple more than 6 fl oz (0.121 lb a.i.) per acre per year. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year. • Do not apple more than 6 fl oz (0.121 lb a.i.) per acre per year. • Do not apple more than 6 fl oz (0.121 lb a.i.) per acre per year. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.485 lb a.i.) per acre per year.	including:					
Brussels sprouts aabbage Chinese (napa) aabbage, Chinese mustard aauliflower aavalo broccoli cohrabi auliflower aavalo broccoli cohrabi auliflower aavalo broccoli cohrabi auliflower aavalo broccoli cohrabi sultivars, varieties, and/or hybrids of these Tor repeat applications make on a minimum of a 14 day interval. <b>Restrictions:</b> • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per application. • Do not make more than for applications per year. • Do not make more than for applications per year. • Do not make more than for applications per year. • Do not make more than for applications per year. • Do not make more than for applications per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.121 lb a.i.) per acre per application. • Do not applications make on a minimum of a 14 day interval. <b>Restrictions:</b> • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.	broccoli					
abbage abbage, Chinese (napa) abbage, Chinese mustard availflower availo broccoli cohrabi utitivars, varieties, and/or hybrids of these       Image: Chinese mustard availflower avails broccoli cohrabi utitivars, varieties, and/or hybrids of these       Image: Chinese mustard availflower avails broccoli cohrabi utitivars, varieties, and/or hybrids of these       Image: Chinese mustard floz       Image: Chinese mustard procession floz         • Do not apply more than 6f to z (0.121 lb a.i.) per acre per application.       • Do not apply more than 6f to z (0.485 lb a.i.) per acre per year.         • Do not apply more than 6f to z (0.485 lb a.i.) per acre per year.       • Do not apply more than 6f to z (0.485 lb a.i.) per acre per year.         • Do not apply more than 6f to z (0.485 lb a.i.) per acre per year.       • Non-ionic Surfactant floz       None <b>Bi: Brassica, leafy</b> greens including: roccoli raab tabbage, Chinese (bok choy) collards raale mizuna nustard greens mustard greens mustard greens mustard spinach ape greens suitivars, varieties, and/or hybrids of these       Image: Chinese (bok choy) routitivars, varieties, and/or hybrids of these       Image: Chinese (ro						
abbage, Chinese       (napa)         (napa)       abbage, Chinese         mustard       audiflower         availoflower       audiflower         availoflower       audiflower         availo flower       audiflower         availo broccoli       cohrabi         cohrabi       uttivars, varieties,         and/or hybrids of       these         For repeat applications make on a minimum of a 14 day interval. <b>Restrictions:</b> Do not apply more than 64 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. <b>Por Subgroup</b> 14 days <b>B: Brassica, leafy</b> fl oz         fl oz       fl oz         fl oz       fl oz         virgens including:       roccoli raab         alabage, Chinese       fl oz         (bok choy)       olards         colards       alabage, Chinese         uitivars, varieties,       and/or hybrids of         mustard greens       mustard greens         nustard greens       mustard greens         nustard greens       mustard greens         sandror hybrids of these       roc         or repeat applications make on a minimum of a 14 day interv	•					
(napa) nabbage, Chinese mustard sauliflower availab broccoli cohrabi muttivars, varieties, and/or hybrids of these       Image: Chinese mustard sauliflower available for these mustard subhage, varieties, and/or hybrids of these       Image: Chinese mustard mustard spinach abbage, Chinese (bok choy) pollards alle mustard greens mustard greens mustard greens mustard spinach ape greens mustard spinach apply more than 16 fl oz (0.121 lb a.i.) per acre per application.       None         • Do not apply more than 16 fl oz (0.485 lb a.i.) per acre per application.						
aabbage, Chinese mustard aavlato broccoli cohrabi savalo broccoli cohrabi suitivars, varieties, and/or hybrids of these       Image: Chinese mustard avalo broccoli cohrabi suitivars, varieties, and/or hybrids of these       Image: Chinese mustard suitivars, varieties, and/or hybrids of these       Image: Chinese mustard spinach subscription         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.       Image: Chinese mustard spinach subscription       Image: Chinese mustard spinach subscription </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
mustard gauliflower savalo broccoli cohlrabi ultivars, varieties, and/or hybrids of these       Image: Construction of the set or repeat applications make on a minimum of a 14 day interval.         Restrictions:       Image: Construction of the set or repeat apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         • Do not apply more stant gen acre per year.         • Do not apply more stant gen acre per year.         • Do not apply more stant gen acre per year.         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year.						
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avalo broccoli cohrabi sultivars, varieties, and/or hybrids of these or repeat applications make on a minimum of a 14 day interval. <b>Restrictions:</b> • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not make more than four applications per year. <b>Trop Subgroup</b> <b>BE Brassica, leafy</b> <b>J14</b> days <b>9</b> – 16 <b>fl</b> oz <b>fl</b>						
cohlrabi       ultivars, varieties, and/or hybrids of these       Image: constraint of the sector of the se	cavalo broccoli					
and/or hybrids of these	kohlrabi					
these	cultivars, varieties,					
For repeat applications make on a minimum of a 14 day interval.         Restrictions:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not make more than four applications per year.         Crop Subgroup       14 days       9 – 16       12 – 16       Non-ionic Surfactant       None         BB: Brassica, leafy processing:       14 days       9 – 16       12 – 16       Non-ionic Surfactant       None         BB: Brassica, leafy processing:       14 days       9 – 16       12 – 16       Non-ionic Surfactant       None         BB: Brassica, leafy processing:       14 days       9 – 16       12 – 16       Non-ionic Surfactant       None         BB: Brassica, leafy processing:       14 days       9 – 16       12 – 16       Non-ionic Surfactant       None         BB: Brassica, leafy processing:       14 days       9 – 16       12 – 16       (NIS) at 0.25% v/v       None         Babage, Chinese (bok choy)       14 days       9 – 16       12 – 16       (NIS) at 0.25% v/v       None         Inizuna nustard greens nustard spinach ape greens exultivars, varieties, and/or hybrids of these       10       14 day interval.         For repeat applications make on a minimum of a 14 day interval.       Restric	and/or hybrids of					
Restrictions:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not make more than four applications per year.         Crop Subgroup       14 days       9 – 16       12 – 16       Non-ionic Surfactant (NIS) at 0.25% v/v       None         BB: Brassica, leafy       fl oz       fl oz       fl oz       fl oz       v/v       None         isabage, Chinese (bok choy)       fl oz       fl oz       fl oz       isabage, chinese       v/v       None         (bok choy)       vollards       ale       ale       vollards       v/v       v/v         atale       nustard greens       nustard greens       vollards       vollards       vollards       vollards         atale       nustard spinach       ape greens       vollards       vollards       vollards       vollards         and/or hybrids of these       vollards       vollards       vollards       vollards       vollards         and/or hybrids of these       vollards       vollards       vollards       vollards       vollards         and/or hybrids of these       vollards       vollards       vollards       vollards       vollards         and/or hybri						
<ul> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not make more than four applications per year.</li> </ul> <b>Crop Subgroup 14</b> days <ul> <li>9 – 16</li> <li>12 – 16</li> <li>Non-ionic Surfactant</li> <li>None</li> </ul> <b>B:</b> Brassica, leafy preens including: procedi raab <ul> <li>abbage, Chinese</li> <li>(bok choy)</li> <li>(bok choy)</li> <li>(bok choy)</li> <li>(bok choy)</li> <li>(bok choy)</li> <li>(bok choy)</li> <li>(collards</li> <li>(aale</li> <li>(aale</li> <li>(aale</li> <li>(bok choy)</li> <li>(collards</li> <li>(collards)</li> <li>(collards)<td></td><td>is make on a min</td><td>imum of a 14 c</td><td>lay interval.</td><td></td><td></td></li></ul>		is make on a min	imum of a 14 c	lay interval.		
<ul> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not make more than four applications per year.</li> <li>Top Subgroup</li> <li>Brassica, leafy</li> <li>If days</li> <li>If oz</li> <li>If oz<td></td><td><math>r_{0}</math> than 16 fl <math>\sigma_{7}</math> (0</td><td>121 lb a i ) pa</td><td>r acro por appl</td><td>ication</td><td></td></li></ul>		$r_{0}$ than 16 fl $\sigma_{7}$ (0	121 lb a i ) pa	r acro por appl	ication	
<ul> <li>Do not make more than four applications per year.</li> <li>Crop Subgroup B: Brassica, leafy preens including: prococoli raab cabbage, Chinese (bok choy) collards aale nizuna nustard greens nustard spinach ape greens sultivars, varieties, and/or hybrids of these</li> <li>On ot apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> </ul>						
Crop Subgroup BB: Brassica, leafy greens including: procoli raab cabbage, Chinese (bok choy) collards tale enizuna nustard greens nustard spinach ape greens sultivars, varieties, and/or hybrids of these14 days9 – 16 fl oz12 – 16 fl ozNon-ionic Surfactant (NIS) at 0.25% v/vNoneFor repeat applications make on a minimum of a 14 day interval.Restrictions: • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.Non-ionic Surfactant (NIS) at 0.25% v/vNone					•	
B: Brassica, leafy preens including: procooli raab sabbage, Chinese (bok choy) pollards sale (bok choy) pollards sale nizuna nustard greens nustard greens nustard spinach ape greens sultivars, varieties, and/or hybrids of these       fl oz       (NIS) at 0.25% v/v         or       Filoz       fl oz       (NIS) at 0.25% v/v         preens       (bok choy)       (bok choy)         pollards       (bok choy)       (bok choy)         pollards       (bok choy)         polards       (bok choy)         polards       (bok choy)         polards	Crop Subgroup				Non-ionic Surfactant	None
Prococoli raab babbage, Chinese (bok choy) collards tale nizuna nustard greens nustard spinach ape greens cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. Restrictions: <ul> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> </ul>	5B: Brassica, leafy		fl oz	fl oz	(NIS) at 0.25% v/v	
abbage, Chinese (bok choy) collards cale nizuna nustard greens nustard spinach ape greens cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. Restrictions: <ul> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> </ul>	greens including:					
(bok choy)         collards         cale         nizuna         nustard greens         nustard spinach         ape greens         cultivars, varieties,         and/or hybrids of         these         For repeat applications make on a minimum of a 14 day interval.         Restrictions:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.						
collards cale nizuna nustard greens nustard spinach ape greens cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. <b>Restrictions:</b> • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.						
Rale nizuna nustard greens nustard spinach ape greens cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. Restrictions: <ul> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> </ul>	(bok choy)					
nizuna nustard greens nustard spinach ape greens cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. Restrictions: • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year.						
nustard greens nustard spinach ape greens cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. Restrictions: • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year.						
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ape greens         cultivars, varieties,         and/or hybrids of         these         For repeat applications make on a minimum of a 14 day interval.         Restrictions:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.						
cultivars, varieties, and/or hybrids of these       and/or hybrids of         For repeat applications make on a minimum of a 14 day interval.         Restrictions:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 6 fl oz (0.485 lb a.i.) per acre per year.						
and/or hybrids of these       and/or hybrids of these         For repeat applications make on a minimum of a 14 day interval.         Restrictions:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.	cultivars, varieties,					
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<ul> <li>Restrictions:</li> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> </ul>	these					
<ul> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> </ul>		is make on a min	imum of a 14 o	lay interval.		
• Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.		a then $40.4 = 10$	101    : \		iaction	
	Do not apply mor	e inan 16 fl oz (0	121 lb a.l.) pe	r acre per appl	ication.	
Do not make more than four applications per year.						

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
Crop Subgroup 6A: Edible-podded legume vegetables including: bean ( <i>Phaseolus</i>	21 days	9 – 16 fl oz <sup>(5)</sup>	12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None
spp.) runner bean snap bean wax bean bean ( <i>Vigna</i> spp.) asparagus bean Chinese					
longbean moth bean yardlong bean jackbean pea ( <i>pisum</i> spp.) dwarf pea					
edible-pod pea snow pea sugar snap pea pigeon pea soybean (immatue seed)					
sword bean For peas apply before <b>Restrictions:</b> • Do not apply mor • Do not apply mor	e than 16 fl oz (0	.121 lb a.i.) pe	<sup>.</sup> r acre per appl		
Crop Subgroup 6B: Succulent shelled pea and bean including: bean ( <i>Phaseolus</i> spp.) lima bean (green)	21 days	9 – 16 fl oz <sup>(5)</sup>	12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None
broad bean (succulent) bean ( <i>Vigna</i> spp.) black-eyed pea cowpea Southern pea					
pea ( <i>Pisum</i> spp.) English pea garden pea green pea pigeon pea For peas apply before	e bloom, but no la	ter than 21 da	ys before harve	est. <sup>(9)</sup>	
• Do not apply mor	e than 16 fl oz (0	.121 lb a.i.) pe	r acre per appl		
Do not apply mor Crop Subgroup 6C, Dried shelled pea and bean	e than one applic 30	ation per acre 9 – 16 fl oz <sup>(5)</sup>	per year. Beans: 12 – 32 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
(except soybean)			Peas:		
including			12 - 16		
Dried cultivars of			fl oz		
bean ( <i>Lupinus</i> spp.)					
grain lupin					
sweet lupin,					
white lupin					
white sweet lupin					
bean ( <i>Phaseolus</i>					
spp.)					
field bean					
kidney bean					
lima bean (dry)					
navy bean					
pinto bean					
tepary bean					
bean ( <i>Vigna</i> spp.)					
adzuki bean					
black-eyed pea					
catjang					
cowpea					
crowder pea					
moth bean					
mung bean					
rice bean					
Southern pea					
urd bean					
broad bean (dry)					
chickpea					
guar					
lablab bean					
lentil					
Pea ( <i>Pisum</i> spp.)					
field pea					
pigeon pea					
For Beans:					
For repeat applicati <b>Restrictions:</b>					
Do not apply m					
Do not apply m				aı.	
	nore than four ap	plications per y	rear.		
For Peas: Apply before bloom Restrictions:	n but not later that	n 30 days prioi	r to harvest. <sup>(9)</sup>		
<ul> <li>Do not apply m</li> </ul>	ore than 16 fl or	(0.121 lb a i )	ner acre ner ar	nlication	
<ul> <li>Do not apply if</li> <li>Do not apply m</li> </ul>				phoauon.	
Crop Group 8-10:	20 days	9 – 16	12 – 16	Non-ionic Surfactant	None
Vegetable, fruiting	20 uays	9 – 16 fl oz	12 – 16 fl oz	(NIS) at 0.25% v/v	NULLE
including		11 02	11 02	(1110) at 0.20 /0 V/V	
African eggplant			Tomato:		
bush tomato			12 – 32		
cocona			fl oz		
currant tomato			11 02		
eggplant					
garden huckleberry					
goji berry	1		1		

groundcherry martynia naranjila okra pea eggplant pepper, bell pepper, non-bell roselle scafte eggplant sunberry tomatio tomato tree tomato cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. Restrictions: For contact cultivars, varieties, and/or hybrids of these Por repeat applications make on a minimum of a 14 day interval. Restrictions: For contact cultivars, varieties, and/or hybrids of these Por repeat applications make on a minimum of a 14 day interval. Restrictions: For onatopaly more than 32 fl oz/A (0.242 lb a.i./A) per application. • Do not apply more than 61 noz (0.425 lb a.i./A) per year. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per year. • Do not make more than four applications per year. • Do not make more than four applications per year. • Do not make more than four applications per year. • Do not make more than four applications per year. • Do not make more than four applications per year. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per year. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per year. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not	Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
marynia okra okra okra pepa egglant pepino pepper, bell pepper, bell pepper, non-bell roselie santer egglant sunberry timeatilio tomatio tomatio tomatio tomatio tomatio tomatio tomatio tomatio tomatio Tere tomato times Por ropeat applications make on a minimum of a 14 day interval. <b>Restrictions:</b> • Do not apply more than 32 fl oz/A (0.242 lb a.i/A) per application. • Do not apply more than 64 fl oz/A (0.456 lb a.i.)/a) per application. • Do not apply more than 64 fl oz/A (0.456 lb a.i.)/a) per application. • Do not apply more than 64 fl oz (0.465 lb a.i.)/a) per acre per application. • Do not apply more than 64 fl oz (0.465 lb a.i.)/a) per acre per application. • Do not apply more than 64 fl oz (0.465 lb a.i.)/a) per acre per application. • Do not apply more than 64 fl oz (0.465 lb a.i.)/a) per acre per application. • Do not apply more than 64 fl oz (0.465 lb a.i.)/a) per acre per application. • Do not apply more than 64 fl oz (0.456 lb a.i.)/a) per acre per application. • Do not apply more than 64 fl oz (0.456 lb a.i.)/a) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6 fl oz (0.121 lb a.i.) per acre per application.	groundcherry					
naranjila okra pea eggplant pepper, bell pepper, hell pepper, hell pepper, non-bell roselie scafet eggplant sunherry tomatio tomato tree tomato cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. Restrictions: For repeat applications make on a minimum of a 14 day interval. Restrictions: For romatoses • Do not apply more than 32 fl oz/A (0.242 lb a.i./A) per application. • Do not apply more than 32 fl oz/A (0.242 lb a.i./A) per application. • Do not apply more than 61 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not make more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not make more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not make more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not make more than 16 fl oz (0.121 lb a.i.) per acre per year. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per year. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per year. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.)						
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Restrictions:         For tomatoes         • Do not apply more than 32 fl oz/A (0.242 lb a.i/A) per application.         • Do not apply more than 64 fl oz/A (0.485 lb a.i/A) per year.         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per per application.         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.421 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.425 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.421 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.425 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.421 lb a.i.) per acre per year.         • For repeat applications make on a minimum of a 14 day interval.         Restrictions:         • Do not apply more than 64 fl oz (0.421 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.421 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.						
For tomatces         • Do not apply more than 32 fl oz/A (0.242 lb a.i./A) per application.         • Do not apply more than 64 fl oz/A (0.485 lb a.i./A) per year.         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz/A (0.485 lb a.i.) per acre per application.         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz/A (0.485 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz/A (0.485 lb a.i.) per acre per year.         • Do not make more than four applications per year. <b>Crop Subgroup</b> 14 days <b>fl</b> oz       fl oz         Non-ionic Surfactant (NIS) at 0.25% v/v         including:       cultivars, varieties, and/or hybrids of these         utaremelon cultivars, varieties, and/or hybrids of these       si.) per acre per application.         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.       • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.       • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.       • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not make more than four applications per year.       • Do not make more than four a		is make on a min	imum of a 14 o	day interval.		
<ul> <li>Do not apply more than 32 fl oz/A (0.242 lb a.i/A) per application.</li> <li>Do not apply more than 64 fl oz/A (0.485 lb a.i/A) per year.</li> <li>Do not make more than four applications per year.</li> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Crop Subgroup and fl oz (0.485 lb a.i.) per acre per year.</li> <li>Crop Subgroup and fl oz (0.485 lb a.i.) per acre per year.</li> <li>Crop Subgroup and fl oz (0.485 lb a.i.) per acre per year.</li> <li>For repeat applications make on a minimum of a 14 day interval.</li> <li>Restrictions:         <ul> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.121 lb a.i.) per acre per application.</li> </ul> </li> <li>Crop Subgroup 14 days 9 - 16 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Crop Subgroup 14 days 9 - 16 fl oz fl oz (NIS) at 0.25% v/v</li> <li>None 98, Squash/</li> <li>Crop subgroup 14 days 9 - 16 fl oz (NIS) at 0.25% v/v</li> </ul>						
<ul> <li>Do not apply more than 64 fl oz/A (0.485 lb a.i./A) per year.</li> <li>Do not make more than four applications per year.</li> <li>Tor all other crops:         <ul> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> </ul> </li> <li>Do not make more than 60 rapplications per year.</li> <li>Tor Bubgroup 14 days 9 - 16 fl oz fl oz</li> <li>fl oz fl oz fl oz</li> <li>fl oz fl oz fl oz fl oz (NIS) at 0.25% v/v</li> </ul> <li>None</li>				( • )		
<ul> <li>bo not make more than four applications per year.</li> <li>For all other crops:         <ul> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not make more than four applications per year.</li> </ul> </li> <li>Crop Subgroup fl uses and the second and the</li></ul>					ation.	
For all other crops:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.       • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than four applications per year.       Non-ionic Surfactant (NIS) at 0.25% v/v       None         Group 9A, Melon including:       14 days       9 – 16       12 – 16       Non-ionic Surfactant (NIS) at 0.25% v/v       None         citron melon muskmelon watermelon cultivars, varieties, and/or hybrids of these       1       1       1       2       1       0       1       1       1       1       1       0       1						
<ul> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not make more than four applications per year.</li> </ul> Crop Subgroup           14 days         9 – 16         12 – 16         Non-ionic Surfactant (NIS) at 0.25% v/v         None           citron melon         fl oz         fl oz         fl oz         Non-ionic Surfactant (NIS) at 0.25% v/v         None           watermelon         and/or hybrids of these         network         network         None         None           For repeat applications make on a minimum of a 14 day interval.         Restrictions:         Non-ionic Surfactant (NIS) at 0.25% v/v         None           • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 61 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.121 lb a.i.) per acre per year.         • Do not apply more than 61 fl oz (0.485 lb a.i			plications per y	ear.		
<ul> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not make more than four applications per year.</li> <li>Crop Subgroup Group 9A, Melon</li> <li>14 days</li> <li>9 - 16</li> <li>12 - 16</li> <li>Non-ionic Surfactant (NIS) at 0.25% v/v</li> <li>None</li> </ul>			(0.121 lb a i )	por acro por ar	plication	
<ul> <li>Do not make more than four applications per year.</li> <li>Crop Subgroup Group 9A, Melon including: citron melon muskmelon watermelon cultivars, varieties, and/or hybrids of these</li> <li>For repeat applications make on a minimum of a 14 day interval.</li> <li>Restrictions:         <ul> <li>Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> </ul> </li> <li>Crop Subgroup 9B, Squash/</li> <li>fl oz</li> <l< td=""><td></td><td></td><td></td><td></td><td></td><td></td></l<></ul>						
Crop Subgroup Group 9A, Melon including: citron melon muskmelon watermelon cultivars, varieties, and/or hybrids of these       14 days       9 – 16 fl oz       12 – 16 fl oz       Non-ionic Surfactant (NIS) at 0.25% v/v       None         For repeat applications make on a minimum of a 14 day interval. <b>Restrictions:</b> • Do not apply more than 6f fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 6f fl oz (0.485 lb a.i.) per acre per year. • Do not make more than 6f fl oz (0.485 lb a.i.) per acre per year. • Do not make more than 6f fl oz (0.485 lb a.i.) per acre per year. • Do not make more than fl oz (0.485 lb a.i.) per acre per year. • Do not make more than fl oz (0.485 lb a.i.) per acre per year. • Do not make more than fl oz (0.485 lb a.i.) per acre per year. • Do not make more than fl oz (0.485 lb a.i.) per acre per year. • Do not make more than floz (0.485 lb a.i.) per acre per year. • Do not make more than floz (0.485 lb a.i.) per acre per year. • Do not make more than floz (0.485 lb a.i.) per acre per year. • Do not make more than floz (0.485 lb a.i.) per acre per year. • Do not make more than floz (0.485 lb a.i.) per acre per year. • Do not make more than floz (0.485 lb a.i.) per acre per year. • Do not make more than floz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 floz (0.485 lb a.i.) per acre per year. • Do not make more than floz (0.485 lb a.i.) per acre per year. • Do not apply acre than 64 floz (0.485 lb a.i.) per acre per year. • Do not apply acre than 64 floz (0.485 lb a.i.) per acre per year. • Do not apply acre than 64 floz (0.485 lb a.i.) per acre per year. • Do not apply acre than 64 floz (0.485 lb a.i.) per acre per year. • Do not apply acre than 64 floz (0.485 lb a.i.) per acre per year. • Do not apply acre than 64 floz (0.485 lb a.i.) per acre per year. • Do not apply acre than 64 floz (0.485 lb a.i.) per acre per year. • Do not apply acre than 64						
Group 9A, Meion including: citron meion muskmelon watermelon cultivars, varieties, and/or hybrids of these       fl oz       fl oz       (NIS) at 0.25% v/v         For repeat applications make on a minimum of a 14 day interval.       Restrictions:       -         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.       • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.       • Do not apply more than flor applications per year.         Crop Subgroup 9B, Squash/ chayote (fruit) Chinese waxgourd cucumber including chayote (fruit) Chinese waxgourd cucumber glourd, edible Momordica spp. pumpkin squash summer       14 days       9 – 16 fl oz       12 – 16 fl oz       Non-ionic Surfactant (NIS) at 0.25% v/v       None					Non-ionic Surfactant	None
including: citron melon muskmelon watermelon cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. <b>Restrictions:</b> • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not make more than four applications per year. <b>Crop Subgroup</b> 14 days 9 – 16 12 – 16 Non-ionic Surfactant <b>Restrictions</b> <b>Cucumber</b> including chayote (fruit) Chinese waxgourd cucumber gherkin gourd, edible <i>Momordica</i> spp. pumpkin squash summer		,	fl oz	fl oz		
citron melon muskmelon watermelon cultivars, varieties, and/or hybrids of these For repeat applications make on a minimum of a 14 day interval. <b>Restrictions:</b> • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per application. • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year. • Do not make more than four applications per year. <b>Crop Subgroup</b> <b>9B, Squash/</b> <b>fl</b> oz <b>fl</b>						
watermelon       cultivars, varieties, and/or hybrids of these       and/or hybrids of these       and/or hybrids of these         For repeat applications make on a minimum of a 14 day interval.       Restrictions:       .         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.       .       .         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.       .       .         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.       .       .         • Do not make more than four applications per year.       .       .       .         Crop Subgroup       14 days       9 – 16       12 – 16       Non-ionic Surfactant (NIS) at 0.25% v/v       None         9B, Squash/       fl oz       fl oz       fl oz       fl oz       .       .         chayote (fruit)       .       .       .       .       .       .       .         Chinese waxgourd cucumber gherkin gourd, edible       .						
cultivars, varieties, and/or hybrids of these       Image: cultivars, varieties, and/or hybrids of these       Image: cultivars, varieties, and/or hybrids of these         For repeat applications make on a minimum of a 14 day interval.       Restrictions:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.       • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not apply more than four applications per year.       • Do not make more than four applications per year.         • Do not make more than four applications per year.       • Non-ionic Surfactant (NIS) at 0.25% v/v <b>Grop Subgroup</b> 14 days       9 – 16       12 – 16       Non-ionic Surfactant (NIS) at 0.25% v/v       None <b>9B, Squash/</b> fl oz       fl oz       fl oz       fl oz       fl oz       including (NIS) at 0.25% v/v       None         chayote (fruit)       Chinese waxgourd cucumber gherkin gourd, edible       Image: cultor way of the set	muskmelon					
and/or hybrids of these       Image: style="text-align: center;">Image: style="te	watermelon					
these       Image: Construction of the second						
For repeat applications make on a minimum of a 14 day interval.         Restrictions:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not make more than four applications per year.         Crop Subgroup       14 days         9B, Squash/       14 days         fl oz       fl oz         fl oz       fl oz         vayote (fruit)       14 days         Chinese waxgourd       14 days         gherkin       gourd, edible         Momordica spp.       pumpkin         squash       summer	and/or hybrids of					
Restrictions:         • Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.         • Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.         • Do not make more than four applications per year.         • Do not make more than four applications per year.         Crop Subgroup       14 days       9 – 16       12 – 16       Non-ionic Surfactant (NIS) at 0.25% v/v       None         9B, Squash/       fl oz       fl oz       fl oz       fl oz       log of the second seco	these					
<ul> <li>Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.</li> <li>Do not make more than four applications per year.</li> <li>Crop Subgroup         <ul> <li>14 days</li> <li>9 – 16</li> <li>12 – 16</li> <li>Non-ionic Surfactant</li> <li>None</li> </ul> </li> <li>9B, Squash/         <ul> <li>Cucumber</li> <li>including</li> <li>chayote (fruit)</li> <li>Chinese waxgourd</li> <li>cucumber</li> <li>gourd, edible</li> <li>Momordica spp.</li> <li>pumpkin</li> <li>squash</li> <li>summer</li> </ul> </li> </ul>	Restrictions:			-		
<ul> <li>Do not make more than four applications per year.</li> <li>Crop Subgroup         <ul> <li>14 days</li> <li>9 – 16</li> <li>12 – 16</li> <li>Non-ionic Surfactant</li> <li>(NIS) at 0.25% v/v</li> </ul> </li> <li>Cucumber         <ul> <li>including</li> <li>chayote (fruit)</li> <li>Chinese waxgourd</li> <li>cucumber</li> <li>gourd, edible</li> <li>Momordica spp.</li> <li>pumpkin</li> <li>squash</li> <li>ummer</li> <li>ummer</li> </ul> </li> </ul>						
Crop Subgroup 9B, Squash/ Cucumber including chayote (fruit) Gucumber gherkin gourd, edible Momordica spp. pumpkin squash14 days9 – 16 fl oz12 – 16 fl ozNon-ionic Surfactant (NIS) at 0.25% v/vNone14 days9 – 16 fl ozfl ozfl ozfl ozNon-ionic Surfactant (NIS) at 0.25% v/vNone						
9B, Squash/ Cucumber including chayote (fruit) Cucumber gherkin gourd, edible Momordica spp. pumpkin squash summerfl ozfl oz(NIS) at 0.25% v/v						
Cucumber         including         chayote (fruit)         Chinese waxgourd         cucumber         gherkin         gourd, edible         Momordica spp.         pumpkin         squash         summer		14 days				None
including chayote (fruit) Chinese waxgourd cucumber gherkin gourd, edible <i>Momordica</i> spp. pumpkin squash summer			ti oz	ti oz	(NIS) at 0.25% v/v	
chayote (fruit) Chinese waxgourd cucumber gherkin gourd, edible <i>Momordica</i> spp. pumpkin squash summer						
Chinese waxgourd cucumber gherkin gourd, edible <i>Momordica</i> spp. pumpkin squash summer						
cucumber gherkin gourd, edible <i>Momordica</i> spp. pumpkin squash summer						
gherkin       gourd, edible         gourd, edible						
gourd, edible     Momordica spp.       pumpkin     squash       summer     Image: Summer						
Momordica spp.       pumpkin       squash       summer						
pumpkin squash summer						
squash summer						
summer						
	winter					

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
cultivars, varieties, and/or hybrids of these					
For repeat application Restrictions: • Do not apply more	e than 16 fl oz (0	.121 lb a.i.) pe	r acre per appl		
Do not apply more					
Do not make mon     Crop Group 11-10:	14 days	9 – 16	12 – 16	Non-ionic Surfactant	None
Fruit, pome including apple azarole crabapple loquat mayhaw medlar pear pear, Asian quince quince Chinese Japanese tejocote cultivars, varieties, and/or hybrids of these		fl oz	fl oz	(NIS) at 0.25% v/v	
For repeat application <b>Restrictions:</b> • Do not apply mol • Do not apply mol • Do not make mol	re than 16 fl oz (0 re than 64 fl oz (0	.121 lb a.i.) pe .485 lb a.i.) pe	r acre per appl r acre per year		
Crop Group 12-12: Fruit, stone including apricot, Japanese capulin cherry black nanking sweet tart jujube, Chinese nectarine peach plum plum American beach Canada cherry Chickasaw damson Japanese Klamath	14 days	9 – 16 fl oz	12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
prune plumcot sloe cultivars, varieties, and/or hybrids of these					
For repeat application <b>Restrictions:</b> • Do not apply more • Do not apply more • Do not make more	e than 16 fl oz (0 e than 64 fl oz (0	.121 lb a.i.) pe .485 lb a.i.) pe	r acre per appl r acre per year	ication.	
Crop Subgroup 13-07A: Caneberry including blackberry loganberry raspberry red black wild cultivars, varieties, and/or hybrids of these	7 days	9 – 16 fl oz	12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None
For repeat application <b>Restrictions:</b> • Do not apply more • Do not apply more • Do not make more	e than 16 fl oz (0 e than 64 fl oz (0 e than four applic	.121 lb a.i.) pe .485 lb a.i.) pe cations per yea	r acre per appl r acre per year ar.		
Crop Subgroup 13-07B: Bushberry including: aronia berry blueberry, highbush buffalo currant Chilean guava currant black red elderberry European, barberry gooseberry cranberry, highbush honeysuckle, edible huckleberry jostaberry Juneberry lingonberry native currant salal sea buckthorn cultivars, varieties, and/or hybrids of	14 days	9 – 16 fl oz	12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None

	Minimum Time From	Annual Grass	Perennial Grass	Adjuvant	Ammonium
Crops <sup>(1)</sup>	Application To Harvest (PHI)	Use Rate Per	Use Rate Per	Recommendation <sup>(3)</sup>	Sulfate Recommendation <sup>(4)</sup>
			Acre <sup>(2)</sup>	·	
<ul> <li>Do not apply mor</li> <li>Do not apply mor</li> </ul>					
<ul> <li>Do not apply more</li> <li>Do not make more</li> </ul>					
Crop Subgroup	45 days	9 – 16	12 – 16	Non-ionic Surfactant	None
13-07G: Berry Low	,	fl oz <sup>(5)</sup>	fl oz	(NIS) at 0.25% v/v	
Growing, (except	Strawberries				
cranberry) including:	4 days				
bearberry					
bilberry					
blueberry, lowbush					
cloudberry					
lingonberry muntries					
partridgeberry					
strawberry					
cultivars, varieties					
and/or hybrids of					
these.			interve!		
For repeat application				e desired labeled rate and	with the same Non-ionic
				evident 7 days after treatm	
				ed in the crop safety test.	
<b>Restrictions:</b>					
Do not apply more					
<ul><li>Do not apply more</li><li>Do not make more</li></ul>					
Crop Subgroup	14 days	9 – 16	12 – 16	Non-ionic Surfactant	None
19A: Herbs	,	fl oz	fl oz	(NIS) at 0.25% v/v	
including:					
angelica balm					
basil					
borage					
burnet					
ahamaraila					
chamomile					
catnip					
catnip chervil (dried)					
catnip chervil (dried) chive chive, Chinese clary					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf)					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary cilantro (leaf)					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary cilantro (leaf) curry (leaf) dillweed					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary cilantro (leaf) curry (leaf) dillweed horehound					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary cilantro (leaf) curry (leaf) dillweed horehound hyssop					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary cilantro (leaf) curry (leaf) dillweed horehound hyssop lavender					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary cilantro (leaf) curry (leaf) dillweed horehound hyssop					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary cilantro (leaf) curry (leaf) dillweed horehound hyssop lavender lemongrass					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary cilantro (leaf) curry (leaf) dillweed horehound hyssop lavender lemongrass lovage (leaf) marigold marjoram					
catnip chervil (dried) chive chive, Chinese clary coriander (leaf) costmary cilantro (leaf) curry (leaf) dillweed horehound hyssop lavender lemongrass lovage (leaf) marigold					

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
pennyroyal					
rosemary					
rue					
sage					
savory					
summer					
winter					
sweet bay					
tansy					
tarragon					
thyme					
wintergreen					
woodruff					
wormwood					

For repeat applications make on a minimum of a 14 day interval.

This product has not been tested on all herbs, and herb varieties. It is the responsibility of the user to test this product on a small portion of the crop to be treated before treating the entire field.

Verify crop safety to this product on a small area of the crop, at the desired rate of this product and with the same crop oil concentrate that will be used on the field. If no crop response is evident 7 days after treatment, this product may be used on the entire field at the rate tested and with the same crop oil used in the crop safety test.

#### **Restrictions:**

• Do not apply more than 16 fl oz (0.121 lb a.i.) per acre per application.

• Do not apply more than 64 fl oz (0.485 lb a.i.) per acre per year.

• Do not make more than four applications per year.

<ul> <li>Do not make more</li> </ul>	re man iour applic	ations per yea	u.		
Canola, including	70 days	9 – 12	12 fl oz	Non-ionic Surfactant	None
Crop Subgroup		fl oz <sup>(5)</sup>		(NIS) at 0.25% v/v	
20A: Rapeseed					
(except flax seed)	Mustard seed				
(not for use in	75 days				
California)					
including	Sesame	Sesame	Sesame		
borage	14 days	9 – 16	12 – 16		
crambe		fl oz	fl oz		
cuphea					
echium					
gold of pleasure					
hare's ear mustard					
lesquerella					
lunaria					
meadowfoam					
milkweed					
mustard seed					
oil radish					
poppyseed					
rapeseed (canola)					
sesame					
sweet rocket					
cultivars, varieties					
and/or hybrids of					
these					

### For mustard seed and sesame:

For repeat applications make on a minimum of a 14 day interval.

#### For all crops, except sesame:

Verify crop safety to this product on a small area of the crop, at the desired labeled rate and with the same Non-ionic Surfactant (NIS) that will be used on the field. If no crop response is evident 7 days after treatment, this product may be used on the entire field at the rate tested and with the same NIS used in the crop safety test.

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(</sup>
Restrictions:					
<ul><li> Do not apply n</li><li> Do not apply a</li></ul>	nore than 12 fl oz nore than 12 fl oz after crop has beg	(0.091 lb a.i.)	per acre per ye		applied during the bloor
	nore than one app	plications per y	/ear.		
esame Restrictions:					
Do not apply c	luring flowering.				
	nore than 16 fl oz	(0.121 lb a.i.)	per acre per a	oplication.	
	nore than 64 fl oz			ear.	
	nore than four app				
Crop Subgroup COB: Sunflower	70 days	9 – 16 fl oz <sup>(5)</sup>	12 – 32 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	2.5 to 4 lbs/A
ncluding alendula			Safflower	or Crop Oil Concentrated/	
astor oil plant			12 – 16	Methylated Seed Oil at	
hinese tallowtree			fl oz	1 qt/A or 1% v/v	
uphorbia					
vening primrose				See tank mix label for	
ojoba iger seed				specific adjuvant recommendations.	
ose hip				recommendations.	
afflower					
tokes aster					
unflower					
allowood ea oil plant					
eronica					
ultivars, varieties					
and/or hybrids of					
these					
or repeat applicatio					
				desired rate and with the sa s after treatment, this prod	
ntire field at the rate					
estrictions:		·			
For Safflower:					
	nore than 16 fl oz/			ation.	
	nore than 64 fl oz/ nore than four app				
For all other crop		fileadone per j	Joan		
	nore than 32 fl oz				
	nore than 64 fl oz			ear.	
	nore than four app	plications per y 9 – 16	/ear. 12 – 32	Non-ionic Surfactant	2.5 – 4 lbs/A
lfalfa, Seedling	15 days before	9 – 16 fl oz	12 – 32 fl oz	(NIS) at 0.25% v/v	2.5 – 4 IDS/A
	grazing,	11 02	11 02	or	
	feeding or			Crop Oil Concentrate/	
	harvesting			Methylated Seed Oil at	
	(cutting) for			1 qt/A or 1% v/v	
	forage or hay			See tank mix label for	
				specific adjuvant	

For repeat applications make on a minimum of a 14 day interval.

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
Restrictions:	_[				
<ul> <li>Do not apply mo</li> </ul>	re than 32 fl oz (0	.242 lb a.i.) pe	r acre per appl	ication.	
<ul> <li>Do not apply mo</li> </ul>					
Do not make mo					
Alfalfa, Established	15 days before	12 – 16 fl oz	12 – 32 fl oz	Non-ionic Surfactant	2.5 – 4 lbs/A
Including:	grazing,	11 02	11 02	(NIS) at 0.25% v/v or	
sainfoin	feeding or			Crop Oil Concentrate/	
holy clover	harvesting			Methylated Seed Oil at	
birdsfoot trefoil	(cutting) for			1 qt/A or 1% v/v	
	forage or hay				
				See tank mix label for	
				specific adjuvant recommendations	
For repeat applicatio	ns make on a min	imum of a 14 (	lav interval	Tecommendations	
Restrictions:			ay interval.		
<ul> <li>Do not apply mo</li> </ul>	re than 32 fl oz (0	.242 lb a.i.) pe	r acre per app	lication.	
Do not apply mo					
<ul> <li>Do not make mo</li> </ul>					1
Artichoke	5 days	9 – 16	12 – 16	Non-ionic Surfactant	None
<b>(Globe)</b> For repeat applicatio		fl oz	floz	(NIS) at 0.25% v/v	
<ul> <li>Do not apply mo</li> <li>Do not make mo</li> <li>Asparagus</li> </ul>				Non-ionic Surfactant	None
	,	fl oz	fl oz	(NIS) at 0.25% v/v	
For repeat applicatio <b>Restrictions:</b> • Do not apply mo • Do not apply mo • Do not make mo	re than 16 fl oz (0 re than 64 fl oz (0	.121 lb a.i.) pe .485 lb a.i.) pe	r acre per appl r acre per yea		
Clover	15 days	9 – 16	12 – 32	Non-ionic Surfactant	2.5 to 4 lb/A
	before	fl oz	fl oz	(NIS) at 0.25% v/v	
	grazing,				
	feeding or harvesting				
	(cutting) for				
	forage or hay				
For use on clover gro For repeat applicatio <b>Restrictions:</b>	own in the states on a min	imum of a 14 o	day interval.		1
<ul> <li>Do not apply mo</li> <li>Do not apply mo</li> <li>Do not make mo</li> </ul>	re than 32 fl oz (0	.242 lb a.i.) pe	r acre per yea		
Corn, Field <sup>(6)</sup>	90 days	6 fl oz	-	Non-ionic Surfactant	2.5 to 4 lb/A
,	· · · · · · · · · · · · · · · · · · ·			(NIS) at 0.25% v/v	
				plus Ammonium Sulfate	
To control existing st Restrictions: • Do not apply mo	re than 6 fl oz (0.0	)45 lb a.i.) per		ation.	
Do not make mo			1 Sood Oil with	this product in this use not	tern
<ul> <li>Do not use a Cro</li> </ul>	op Oil Concentrate	e or Methylated	a Seed Oil with	this product in this use pat	tern.

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4</sup>
Cotton (including cotton grown for seed)	60 days	9 – 16 fl oz	12 – 32 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v or	2.5 to 4 lb/A
				Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v	
				See tank mix label for specific adjuvant recommendations	
For repeat applicatior <b>Restrictions:</b>	ns make on a min	imum of a 14 o	day interval.		
<ul> <li>Do not apply mor</li> </ul>	re than 32 fl oz (0	.242 lb a.i.) pe	r acre per appl	lication.	
<ul> <li>Do not apply mor</li> </ul>	e than 64 fl oz (0	.485 lb a.i.) pe	r acre per year	·	
<ul> <li>Do not graze trea</li> <li>Do not make mor</li> </ul>				stock.	
Cranberry	30 days	9 – 16	12 – 16	Non-ionic Surfactant	None
branberry	00 days	floz	floz	(NIS) at 0.25% v/v	None
For repeat applicatior	ns make on a min	imum of a 14 o	day interval.		1
Restrictions:					
<ul> <li>Do not apply mor</li> </ul>					
Do not apply mor					
Do not apply betw					
<ul> <li>Do not make mor</li> </ul>	re than four applic	cations per vea	ar		
Fallow Land	N/A	9 – 16	12 – 32	Non-ionic Surfactant	2.5 to 4 lbs/A
Fallow Land Conifer Trees				(NIS) at 0.25% v/v	2.5 to 4 lbs/A
Fallow Land Conifer Trees (and other non-		9 – 16	12 – 32	(NIS) at 0.25% v/v or	2.5 to 4 lbs/A
Fallow Land Conifer Trees (and other non- producing		9 – 16	12 – 32	(NIS) at 0.25% v/v or Crop Oil Concentrate/	2.5 to 4 lbs/A
Fallow Land Conifer Trees (and other non- producing agricultural areas)		9 – 16	12 – 32	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at	2.5 to 4 lbs/A
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non-		9 – 16	12 – 32	(NIS) at 0.25% v/v or Crop Oil Concentrate/	2.5 to 4 lbs/A
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas	N/A	9 – 16 fl oz	12 – 32 fl oz	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at	2.5 to 4 lbs/A
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat applicatior	N/A	9 – 16 fl oz	12 – 32 fl oz	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at	2.5 to 4 lbs/A
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat applicatior Restrictions:	N/A	9 – 16 fl oz imum of a 14 o	12 – 32 fl oz day interval.	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v	2.5 to 4 lbs/A
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat applicatior	N/A ns make on a min re than 32 fl oz (0	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe	12 – 32 fl oz day interval. r acre per appl	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v	2.5 to 4 lbs/A
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat applicatior Restrictions: • Do not apply mor • Do not apply mor • Do not make mor	N/A ns make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applic	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea	12 – 32 fl oz day interval. r acre per appl r acre per year ar.	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not apply mor • Do not make mor • Do not plant any	N/A ns make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applic crop for 30 days	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio	12 – 32 fl oz day interval. r acre per appl r acre per year ar. m unless cletho	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	that crop.
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not apply mor • Do not make mor • Do not plant any Flax	N/A ns make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applic	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 – 16	12 – 32 fl oz day interval. r acre per appl r acre per year ar. n unless cletho 12 – 16	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not apply mor • Do not make mor • Do not plant any Flax (Not for use in	N/A ns make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applic crop for 30 days	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio	12 – 32 fl oz day interval. r acre per appl r acre per year ar. m unless cletho	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	that crop.
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not apply mor • Do not make mor • Do not plant any Flax (Not for use in California)	N/A ns make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applio crop for 30 days 60 days	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 – 16 fl oz <sup>(5)</sup>	12 – 32 fl oz day interval. r acre per appl r acre per year ar. on unless cletho 12 – 16 fl oz	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication. bdim is registered for use in Non-ionic Surfactant (NIS) at 0.25% v/v	that crop. None
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not apply mor • Do not make mor • Do not plant any Flax (Not for use in California)	N/A ns make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applio crop for 30 days 60 days Crop injury may o	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 – 16 fl oz <sup>(5)</sup>	12 – 32 fl oz day interval. r acre per appl r acre per year ar. on unless cletho 12 – 16 fl oz s product is ap	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	that crop. None
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not make mor • Do not plant any Flax (Not for use in California) Apply prior to bloom. For repeat application Restrictions: • Do not apply mor	N/A Ins make on a min The than 32 fl oz (0 The than 64 fl oz (0 The than four applic crop for 30 days 60 days Crop injury may on the make on a min The than 16 fl oz (0	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 – 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o	12 – 32 fl oz day interval. r acre per appl r acre per year ar. n unless cletho 12 – 16 fl oz s product is ap day interval.	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication. Dodim is registered for use in Non-ionic Surfactant (NIS) at 0.25% v/v plied during the bloom period	that crop. None
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not make mor • Do not plant any Flax (Not for use in California) Apply prior to bloom. For repeat application Restrictions: • Do not apply mor • Do not apply mor	N/A Ins make on a min The than 32 fl oz (0 The than 64 fl oz (0 The than four applic crop for 30 days 60 days Crop injury may on the make on a min the than 16 fl oz (0 The than 32 fl oz (0)	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 – 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o .121 lb a.i.) pe .242 lb a.i.) pe	12 – 32 fl oz fl oz day interval. r acre per appl r acre per year ar. n unless cletho 12 – 16 fl oz s product is ap day interval. er acre per appl r acre per year	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication. Dodim is registered for use in Non-ionic Surfactant (NIS) at 0.25% v/v plied during the bloom period	that crop. None
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not make mor • Do not plant any Flax (Not for use in California) Apply prior to bloom. For repeat application Restrictions: • Do not apply mor • Do not apply mor	N/A Is make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applic crop for 30 days 60 days Crop injury may o ns make on a min re than 16 fl oz (0 re than 32 fl oz (0 re than four appli	9 – 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 – 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o .121 lb a.i.) pe .242 lb a.i.) pe cations per yea	12 – 32 fl oz fl oz day interval. r acre per appl r acre per year ar. n unless cletho 12 – 16 fl oz s product is ap day interval. er acre per appl er acre per year ar.	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	that crop. None
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not make mor • Do not plant any Flax (Not for use in California) Apply prior to bloom. For repeat application Restrictions: • Do not apply mor • Do not apply mor	N/A Ins make on a min The than 32 fl oz (0 The than 64 fl oz (0 The than four applic crop for 30 days 60 days Crop injury may on the make on a min the than 16 fl oz (0 The than 32 fl oz (0)	9 - 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 - 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o .121 lb a.i.) pe .242 lb a.i.) pe cations per yea 9 - 16	12 – 32 fl oz fl oz day interval. r acre per appl r acre per year ar. n unless cletho 12 – 16 fl oz s product is ap day interval. er acre per appl r acre per year ar. 12 – 16	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	that crop.
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not plant any Flax (Not for use in California) Apply prior to bloom. For repeat application Restrictions: • Do not apply mor • Do not make mor	N/A Is make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applic crop for 30 days 60 days Crop injury may on s make on a min re than 16 fl oz (0 re than 32 fl oz (0 re than four applic 21 days	9 - 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 - 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o .121 lb a.i.) pe .242 lb a.i.) pe cations per yea 9 - 16 fl oz	12 – 32 fl oz fl oz day interval. r acre per appl r acre per year ar. n unless cletho fl oz s product is ap day interval. er acre per appl r acre per year ar. 12 – 16 fl oz	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	that crop. None
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not plant any Flax (Not for use in California) Apply prior to bloom. For repeat application Restrictions: • Do not apply mor • Do not make mor Hops	N/A Is make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applic crop for 30 days 60 days Crop injury may on s make on a min re than 16 fl oz (0 re than 32 fl oz (0 re than four applic 21 days	9 - 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 - 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o .121 lb a.i.) pe .242 lb a.i.) pe cations per yea 9 - 16 fl oz	12 – 32 fl oz fl oz day interval. r acre per appl r acre per year ar. n unless cletho fl oz s product is ap day interval. er acre per appl r acre per year ar. 12 – 16 fl oz	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	that crop. None
Fallow Land Conifer Trees (and other non- broducing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not plant any Flax Not for use in California) Apply prior to bloom. For repeat application Restrictions: • Do not apply mor • Do not make mor Hops	N/A Ins make on a min The than 32 fl oz (0 The than 64 fl oz (0 The than 64 fl oz (0 The than four applic Crop injury may of the than 16 fl oz (0 The than 32 fl oz (0 The than four applic 21 days The make on a min	9 - 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 - 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o .121 lb a.i.) pe .242 lb a.i.) pe cations per yea 9 - 16 fl oz imum of a 14 o	12 – 32         fl oz         day interval.         r acre per appl         r acre per year         an unless cletho         12 – 16         fl oz         s product is ap         ay interval.         er acre per appl         er acre per appl         ar.         12 – 16         fl oz         ar.         12 – 16         fl oz         day interval.	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication.	that crop. None
Fallow Land         Conifer Trees         (and other non- boroducing         agricultural areas)         Non-Crop or Non- Planted Areas         For repeat application         Restrictions:         • Do not apply mor         • Do not apply mor         • Do not apply mor         • Do not plant any         Flax         (Not for use in         California)         Apply prior to bloom.         For repeat application         Restrictions:         • Do not apply mor         • Do not apply mor         For repeat application         Restrictions:         • Do not apply mor	N/A Ins make on a min The than 32 fl oz (0 The than 64 fl oz (0 The than 64 fl oz (0 The than four applic Crop injury may of the than 16 fl oz (0 The than 16 fl oz (0 The than four applic 21 days The than 16 fl oz (0 The than 16 fl oz (0) than 16 fl oz (0 The than 16 fl oz (0) than	9 - 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 - 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o .121 lb a.i.) pe cations per yea 9 - 16 fl oz imum of a 14 o .121 lb a.i.) pe	12 – 32         fl oz         day interval.         r acre per appl         r acre per year         an unless cletho         12 – 16         fl oz         s product is ap         ay interval.         er acre per appl         er acre per appl         ar.         12 – 16         fl oz         day interval.         r acre per appl	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication. odim is registered for use in Non-ionic Surfactant (NIS) at 0.25% v/v plied during the bloom period lication. r. Non-ionic Surfactant (NIS) at 0.25% v/v	that crop. None
Fallow Land         Conifer Trees         (and other non-producing         agricultural areas)         Non-Crop or Non-Planted Areas         For repeat application         Restrictions:         • Do not apply mor         • Do not apply mor         • Do not apply mor         • Do not plant any         Flax         (Not for use in         California)         Apply prior to bloom.         For repeat application         Restrictions:         • Do not apply mor         • Do not apply mor         For repeat application         Restrictions:         • Do not apply mor         • Do not apply mor<	N/A Is make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applic crop for 30 days 60 days Crop injury may of s make on a min re than 16 fl oz (0 re than 61 fl oz (0 re than 16 fl oz (0 re than 16 fl oz (0 re than 64 fl oz (0	9 - 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 - 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o .121 lb a.i.) pe cations per yea 9 - 16 fl oz imum of a 14 o .121 lb a.i.) pe .485 lb a.i.) pe	12 – 32         fl oz         day interval.         r acre per appl         r acre per year         an unless cletho         12 – 16         fl oz         s product is ap         day interval.         er acre per appl         er acre per appl         ar.         12 – 16         fl oz         day interval.         r acre per appl         r acre per appl	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication. odim is registered for use in Non-ionic Surfactant (NIS) at 0.25% v/v plied during the bloom period lication. r. Non-ionic Surfactant (NIS) at 0.25% v/v	that crop. None
Fallow Land Conifer Trees (and other non- producing agricultural areas) Non-Crop or Non- Planted Areas For repeat application Restrictions: • Do not apply mor • Do not apply mor • Do not plant any Flax (Not for use in California) Apply prior to bloom. For repeat application Restrictions: • Do not apply mor • Do not apply mor	N/A Is make on a min re than 32 fl oz (0 re than 64 fl oz (0 re than four applic crop for 30 days 60 days Crop injury may of s make on a min re than 16 fl oz (0 re than 61 fl oz (0 re than 16 fl oz (0 re than 16 fl oz (0 re than 64 fl oz (0	9 - 16 fl oz imum of a 14 o .242 lb a.i.) pe .485 lb a.i.) pe cations per yea after applicatio 9 - 16 fl oz <sup>(5)</sup> occur when this imum of a 14 o .121 lb a.i.) pe cations per yea 9 - 16 fl oz imum of a 14 o .121 lb a.i.) pe .485 lb a.i.) pe	12 – 32         fl oz         day interval.         r acre per appl         r acre per year         an unless cletho         12 – 16         fl oz         s product is ap         day interval.         er acre per appl         er acre per appl         ar.         12 – 16         fl oz         day interval.         r acre per appl         r acre per appl	(NIS) at 0.25% v/v or Crop Oil Concentrate/ Methylated Seed Oil at 1 qt/A or 1% v/v ication. odim is registered for use in Non-ionic Surfactant (NIS) at 0.25% v/v plied during the bloom period lication. r. Non-ionic Surfactant (NIS) at 0.25% v/v	that crop. None

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
spearmint				or Crop Oil Concentrated/ Methylated Seed Oil at 1 qt/A or 1% v/v	
For repeat application <b>Restrictions:</b> • Do not apply mor • Do not apply mor • Do not make mor	re than 32 fl oz (0 re than 64 fl oz (0	.242 lb a.i.) pe .485 lb a.i.) pe	r acre per appl r acre per year		
<b>Onions, Green</b> <sup>(7, 8)</sup> For repeat application	14 days	9 – 16 fl oz	12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None
In states other than ( acre. <sup>(7)</sup> <b>Restrictions:</b> • Do not apply mor • Do not apply mor • Do not make mor	re than 16 fl oz (0 re than 64 fl oz (0	.121 lb a.i.) pe .485 lb a.i.) pe	r acre per appl r acre per year ar.		um of 10 gallons per
Ornamentals	N/A	9 – 16 fl oz	12 – 32 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None
<b>Non-Bearing Food</b> <b>Trees</b> For repeat applicatior	N/A	9 – 16 fl oz	12 – 16 fl oz		
Restrictions:	re than 16 fl oz (0 re than 64 fl oz (0	.121 lb a.i.) pe .485 lb a.i.) pe	r acre in a sing r acre per year	lication of this product. le application to non-bearin	g food trees.
Peanut	40 days	9 – 16 fl oz	12 – 32 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrated/ Methylated Seed Oil at 1 qt/A or 1% v/v	2.5 to 4 lbs/A
For repeat application <b>Restrictions:</b> • Do not apply mor • Do not apply mor Ib a.i.) per acre p • Do not make mor	re than 32 fl oz (0 re than 64 fl oz (0 er year (peanuts	.242 lb a.i.) pe .485 lb a.i.) pe only).	r acre per appl er acre per yea	ication. r, except in Florida where th	ne limit is 64 fl oz (0.485
Radish, tops	15 days	9 – 16 fl oz	12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None
For repeat application <b>Restrictions:</b> • Do not apply mor • Do not apply mor • Do not make mor	re than 16 fl oz (0 re than 32 fl oz (0	imum of a 14 c .121 lb a.i.) pe .242 lb a.i.) pe	day interval. r acre per appl r acre per year	ication.	1
Soybean <sup>(10)</sup>	60 days	9 – 16 fl oz <sup>(5)</sup>	12 – 32 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrated/ Methylated Seed Oil at 1 qt/A or 1% v/v	2.5 to 4 lbs/A

Crops <sup>(1)</sup>	Minimum Time From Application To Harvest (PHI)	Annual Grass Use Rate Per Acre <sup>(2)</sup>	Perennial Grass Use Rate Per Acre <sup>(2)</sup>	Adjuvant Recommendation <sup>(3)</sup>	Ammonium Sulfate Recommendation <sup>(4)</sup>
				See tank mix label for specific adjuvant recommendations.	
For repeat application <b>Restrictions:</b> • Do not apply mor • Do not apply mor • Do not graze treat	re than 32 fl oz (0 re than 64 fl oz (0 ated fields or feed	.242 lb a.i.) pe .485 lb a.i.) pe treated forage	r acre per appl r acre per year e or hay to lives	lication.	
<ul> <li>Do not make mon</li> <li>Stevia</li> <li>(dried leaves)</li> </ul>	14 days	9 – 16 fl oz	ar. 12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None
<ul> <li>(NIS) that will be use the entire field at the <b>Restrictions:</b></li> <li>Do not apply mode</li> <li>Do not apply mode</li> </ul>	d on the field. If r rate tested and w re than 16 fl oz (0 re than 64 fl oz (0	io crop respon ith the same N .121 lb a.i.) pe .485 lb a.i.) pe	se is evident 7 IIS used in the r acre per app r acre per yea	lication.	
• Do not make mo Sugar Beet	40 days	9 – 16 fl oz <sup>(5)</sup>	12 – 32 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v or Crop Oil Concentrated/ Methylated Seed Oil at 1 qt/A or 1% v/v See tank mix label for specific adjuvant recommendations.	2.5 to 4 lbs/A
For repeat application <b>Restrictions:</b> • Do not apply mor • Do not apply mor • Do not make mor	re than 32 fl oz (0 re than 64 fl oz (0	.242 lb a.i.) pe .485 lb a.i.) pe	r acre per appl r acre per year	lication.	I
Turnip Greens For repeat applicatior Restrictions:	14 days	9 – 16 fl oz	12 – 16 fl oz	Non-ionic Surfactant (NIS) at 0.25% v/v	None
<ul> <li>Do not apply mor</li> <li>Do not apply mor</li> <li>Do not make mor</li> </ul>	e than 64 fl oz (0 re than four applic	.485 lb a.i.) pe	r acre per year		
use directions ar	ot specified for re provided.	-		eing grown for seed prod	uction unless specifi

- <sup>(2)</sup> See annual and perennial grass control tables for specific use rate directions.
- <sup>(3)</sup> Non-ionic surfactant (NIS) in this case refers to an adjuvant containing at least 80% non-ionic surfactant. Crop oil concentrate in this case refers to both crop oil concentrate and crop oil concentrate blends. Acceptable crop oil concentrates would be those that contain a minimum of 80% oils and 15% emulsifier. Acceptable crop oil concentrate blends would be those that contain a minimum of 60% oils and 25-40% surfactants and emulsifiers. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria: be non-phytotoxic, contain only EPA-exempt

ingredients, provide good mixing quality and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils.

- <sup>(4)</sup> Use spray grade ammonium sulfate. The use of ammonium sulfate does not take the place of the required adjuvant.
- <sup>(5)</sup> See DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES table.
- <sup>(6)</sup> For burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn. See DIRECTIONS FOR USE IN ROUNDUP READY FIELD CORN (BURNDOWN) table.
- <sup>(7)</sup> If this product is applied as a spot treatment to garlic, onion or non-bearing food trees care do not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.
- <sup>(8)</sup> In California, do not apply this product to garlic or onions until crop has at least two full leaves. In California, 14 days spray intervals are advised between the application of this product and liquid nitrogen or other herbicide applications. Injury to crop may occur when shorter intervals are observed.
- <sup>(9)</sup> Applications of this product to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity.
- <sup>(10)</sup> See LIBERTY CLETHODIM 1 TANK MIX WITH BROADLEAF HERBICIDES FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY) IN SOYBEAN.

#### USE DIRECTIONS FOR ANNUAL GRASSES (ALL CROPS)

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

#### Restrictions

- Do not exceed the maximum per application rate listed in **Table 1**.
- Do not exceed the maximum yearly rate listed in Table 1.
- Do not exceed the maximum number of yearly applications listed in Table 1.

		WEED	APPLICATION RATES		
GRASS SPECIES	SS SPECIES SCIENTIFIC NAME		MINIMUM RATE fl oz/A	MAXIMUM RATE <sup>(1)</sup> fl oz/A	
Barnyardgrass	Echinochloa crus-galli	2 to 8	9	16	
Broadleaf Signalgrass	Brachiaria platyphlla	2 to 6	9	16	
Brome					
California	Bromus carinatus	2 to 6	9	16	
Cheat	Bromus secalinus	2 to 6	9	16	
Downy	Bromus tectorum	2 to 6	9	16	
Ripgut	Bromus diandrus	2 to 6	9	16	
Canarygrass	Phalaris canariensis	1 to 4	9	16	
Crabgrass					
Hairy	Digitaria adscendens	2 to 6**	9	16	
Large	Digitaria sanguinalis	2 to 6**	9	16	
Smooth	Digitaria ischaemum	2 to 6**	9	16	
Southern	Digitaria ciliaris	2 to 6**	9	16	
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	9	16	
Fall Panicum	Panicum dichotomiflorum	2 to 8	9	16	
Field Sandbur	Cenchrus incertus	2 to 6	9	16	
Foxtail					
Giant	Setaria feberi	2 to 12	9	16	
Green	Setaria viridis	2 to 8	9	16	
Yellow	Setaria glauca	2 to 8	9	16	
Goosegrass	Eleusine indica	2 to 6**	9	16	

		WEED	APPLICATION RATES		
GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT* (inches)	MINIMUM RATE fl oz/A	MAXIMUM RATE <sup>(1)</sup> fl oz/A	
Itchgrass	Rottboellia cochinchinensis	2 to 6	9	16	
Junglerice	Echinochloa colona	2 to 6	9	16	
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	9	16	
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	9	16	
Red Rice	Oryza sativa	1 to 3	9	16	
Ryegrass					
Hardy	Lolium remotum	2 to 6	9	16	
Italian	Lolium multiflorum	2 to 6	9	16	
Seedling Johnsongrass	Sorghum halepense	4 to 10	9	16	
Shattercane	Sorghum bicolor	6 to 18	9	16	
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	9	16	
Sprangle top					
Amazon	Leptochloa panicoides	2 to 6	9	16	
Bearded	Leptochloa fascicularis	2 to 6	9	16	
Mexican	Leptochloa uninervia	2 to 6	9	16	
Red	Leptochloa filiformis	2 to 6	9	16	
Texas Panicum	Panicum texanum	2 to 6	9	16	
Volunteer Cereals (3)					
Barley	Hordeum vulgare	2 to 6	9	16	
Oats	Avena sativa	2 to 6	9	16	
Rye	Secale cereal	2 to 6	9	16	
Wheat <sup>(2)</sup>	Triticum aestivum	2 to 6	9 (2)	16	
Volunteer Corn <sup>(2,3)</sup>	Zea mays	Up to 12	6	12	
Volunteer Corn <sup>(3)</sup>	Zea mays	Up to 24	9	14	
Volunteer Corn <sup>(2,3)</sup>	Zea mays	Up to 36	12	16	
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	9	16	
Wild Oats	Avena fatua	2 to 6	9	16	
Wild Proso Millet	Panicum miliaceum	2 to 10	9	16	
Witchgrass	Panicum capillare	2 to 8	9	16	
Woolly Cupgrass	Eriochloa villiosa	2 to 8	9	16	

\* Generally, occurs between 3-leaf stage and tillering.

\*\* Length of lateral growth.

(1) Rates higher than 16 fl oz (0.121 lb a.i.) per acre may be applied in certain geographic areas, cropping situations, or environmental conditions, where experience has shown that higher rates are needed for satisfactory control of annual grasses. In these situations, rates from 16 to 32 fl oz (0.121 to 0.242 lb a.i.) per acre may be applied.

#### Restrictions

- Do not apply more than 16 fl oz (0.121 lb a.i.) per acre of this product per application to the following crops: Crop Subgroup 1B: Vegetable, root (except sugar beet), Crop Subgroup 4A: Leafy Greens Crop Subgroup 4B: Leaf petioles, Crop Subgroup 5A: Brassica, head and stem, Crop Subgroup 5B: Brassica, leafy greens, Crop Subgroup 6A: Edible-podded legume vegetables, Crop Subgroup 6B: Succulent shelled pea and bean, Crop Group 8-10: Vegetable, fruiting (except tomato), Crop Subgroup Group 9A, Crop Subgroup 9B, Squash/ Cucumber, Melon, Crop Group 11-10: Crop Group 12-12: Fruit, stone, Fruit, pome Crop Subgroup 13-07A: Caneberry, Crop Subgroup 13-07B: Bushberry Crop Subgroup 13-07G: Berry Low Growing, (except cranberry), Crop Subgroup 19A: Herbs, artichoke (globe), asparagus, cranberry, flax, green onion, hops, pea succulent shelled, radish tops, safflower, sesame, stevia (dried leaves), turnip greens and non-bearing food trees.
- Do not apply more than 12 fl oz (0.091 lb a.i.) per acre of this product per application to Canola, including Crop Subgroup 20A: Rapeseed (except flax seed and sesame).

- <sup>(2)</sup> When a cereal grain crop (including wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum use rate of this product for control is 12 fl oz (0.091 lb a.i.) per acre.
- <sup>(3)</sup> Includes Roundup Ready<sup>®</sup>, Liberty Link<sup>®</sup>, and Clearfield<sup>®</sup> volunteer corn; however, not Sethoxydim-resistant volunteer corn.

#### USE DIRECTIONS FOR ANNUAL & PERENNIAL GRASS CONTROL IN ESTABLISHED ALFALFA AND MINT (PEPPERMINT AND SPEARMINT) WITH LIBERTY CLETHODIM 1

GRASS SPECIES	WEED SPECIES AND SIZE	APPLICATION RATES
Annual & Perennial Grasses Listed	See	See Table 1
in Grass Table	Tables	

**Mowing:** The best control of annual grasses can be achieved by applying this product before grass weeds are mowed. Once grass is mowed it becomes tougher to control, as much of the available leaf surface has been removed. In areas without a killing frost, some annuals can over-winter after having been mowed multiple times. These grasses form large crowns and may contain many viable buds. These grasses, even though they may be an annual grass, may require repeated applications of this product for partial or complete control.

**Irrigated Alfalfa and Mint (Peppermint and Spearmint):** Irrigation practices can be very critical to the successful use of LIBERTY CLETHODIM 1 in established alfalfa and mint (peppermint and spearmint) may be necessary to initiate active growth of the weeds prior to application. Generally, applications 2 to 4 days after irrigation are most effective. Irrigation made shortly after application (2 days) can be effective, but more consistent grass control occurs when the irrigation is made before the application.

**Aerial Application:** Apply this product in a minimum of 10 GPA in established alfalfa and mint (peppermint and spearmint) when applying by air.

**Annual Grass Control:** Apply this product at the grass sizes indicated in the **Annual Grass Table** and rates indicated. If a grass has been cut, apply this product after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Apply before the alfalfa/mint (peppermint and spearmint) canopy covers the grasses and interferes with the spray coverage. Some annual grasses are spring- and summer-germinating plants, while others are fall-germinating plants, and the time they are actively growing and most susceptible to this product may vary from region to region. Also, some annuals germinate over an extended period of time, and because control of small grasses is desired, applications after each weed flush may be required. As a general rule spray spring- and summer-germinating grasses as early in the season as possible, after initial green-up. Spray fall-germinating weeds in the fall soon after they begin growing but before any damage is done due to frost. Late fall applications may be less effective due to environmental conditions, such as frost, slower plant growth, or the onset of flowering.

**Perennial Grass Control:** This product effectively controls perennial grasses including Bermudagrass, Johnsongrass, quackgrass, wirestem muhly, tall fescue, foxtail barley and orchardgrass. Due in part to lack of tillage, perennial grasses are more difficult to control in a perennial crop such as established alfalfa or mint (peppermint and spearmint). A program of repeated applications is usually necessary for best results. The best way to control perennial grasses is to do so in the year of stand establishment before rhizomes and stolons become large and difficult to kill.

Use the high rate under heavy grass pressure and/or when grasses are at or near maximum height.

#### DIRECTIONS FOR REDUCED RATE USE TO CONTROL SMALL ANNUAL GRASSES IN CROP SUBGROUP 6B: SUCCULENT SHELLED PEA AND BEAN, CROP SUBGROUP 6C; DRIED SHELLED PEA AND BEAN (EXCEPT SOYBEAN); CANOLA, INCLUDING CROP SUBGROUP 20A: RAPESEED (EXCEPT FLAX SEED); CROP SUBGROUP 6C, DRIED SHELLED PEA AND BEAN (EXCEPT SOYBEAN); CROP SUBGROUP 20B: SUNFLOWER; FLAX; SOYBEAN AND SUGAR BEET (REDUCED RATE DIRECTIONS NOT FOR USE IN CALIFORNIA)

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.

• Regrowth by tillering may occur if application is made when plants are stressed by lack of moisture, excessive moisture, low or high temperatures and/or under very low humidity.

#### Restrictions

- Do not apply more than the rate listed below per application.
- Do not exceed the maximum yearly rate listed in Table 1.
- Do not exceed the maximum number of yearly applications listed in Table 1.

GRASS SPECIES	SCIENTIFIC NAME	WEED HEIGHT (inches)	RATE FL. OZ./ ACRE
Barnyardgrass	Echinochloa crus-galli	1 to 4	6
Broadleaf Signalgrass	Brachiaria platyphlla	1 to 4	8
Crabgrass			
Large	Digitaria sanguinalis	1 to 3*	6
Large	Digitaria sanguinalis	1 to 4*	8
Smooth	Digitaria ischaemum	1 to 3*	6
Smooth	Digitaria ischaemum	1 to 4*	8
Southern	Digitaria ciliaris	1 to 4*	8
Fall Panicum	Panicum dichotomiflorum	1 to 4	6
Foxtail			
Giant	Setaria faberi	1 to 4	6
Green	Setaria viridis	1 to 4	6
Millet	Setaria italic	1 to 4	8
Yellow	Setaria glauca	1 to 4	6
Seedling Johnsongrass	Sorghum halepense	1 to 6	8
Shattercane	Sorghum bicolor	4 to 10	6
Texas Panicum	Panicum texanum	1 to 4	8
Volunteer Cereals			
Barley	Hordeum vulgare	1 to 4	8
Oats	Avena sativa	1 to 4	8
Wheat	Triticum aestivum	1 to 4	8
Volunteer Corn**	Zea mays	4 to 12	6
Wild Proso Millet	Panicum miliaceum	1 to 6	6
Wild Oats	Avena fatua	1 to 4	8

\* Length of lateral growth

\*\* Not S.R. Corn

(1) Always add a crop oil concentrate at 0.25% v/v total spray volume unless crop specific restrictions and limitations advise otherwise.

#### USE DIRECTIONS FOR PERENNIAL GRASSES (ALL CROPS)

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

#### Restrictions

- Do not exceed the maximum per application rate listed in **Table 1**.
- Do not exceed the maximum yearly rate listed in Table 1.
- Do not exceed the maximum number of yearly applications listed in Table 1.

		APPLICATION RATE		
GRASS SPECIES	WEED HEIGHT (inches)	MINIMUM RATE fl oz/A	MAXIUMUM RATE fl oz/A	
Bermudagrass (Cynodon dactylon)				
First Application	3 (or up to 6" runners)	12	32	
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	12	32	
Fescue, Tall (Festuca arundinacea)				
First Application	4 – 8	12	32	
Repeat Application(s) (if regrowth occurs)	4 – 8	12	32	
Foxtail Barley ( <i>Hordeum jubatum</i> )				
First Application	2 – 6	12	32	
Repeat Application(s) (if regrowth occurs)	2-6	12	32	
Orchardgrass ( <i>Dactylis glomerata</i> )				
First Application	4 – 8	12	32	
Repeat Application(s) (if regrowth occurs)	4 - 8	12	32	
Quackgrass ( <i>Elytrigia repens</i> )				
First Application	4 – 12	12	32	
Repeat Application(s) (if regrowth occurs)	4 – 12	12	32	
Dhizama Jahaangraan (Carahum balananan)				
Rhizome Johnsongrass ( <i>Sorghum halepense</i> ) First Application	12 – 24	12	32	
Repeat Application(s) (if regrowth occurs)	6 – 18	9	24	
Repeat Application(3) (in regrowth occurs)	0 10	0	Z¬	
Wirestem Muhly ( <i>Muhlenbergia frondosa</i> )	4 9	10		
First Application	4 - 8	12	32	
Repeat Application(s) (if regrowth occurs)	4 – 8	12	32	
Perennial Bluegrass				
[Roughstalk ( <i>Poa trivialis</i> )]				
[Kentucky ( <i>Poa prantensis</i> )]		10		
First Application	2 - 4	12	32	
Repeat Application(s)	2-4	12	32	
Bentgrass ( <i>Agrostis</i> spp.)				
First Application	2-4	-	32	
Repeat Application(s) (if regrowth occurs)	2-4	-	32	

## USE DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH LIBERTY CLETHODIM 1 (ALL CROPS)

GRASS SPECIES	WEED STAGE	RATE FL. OZ./ ACRE	HIGH RATE
Annual Bluegrass ( <i>Poa annua</i> )	to 4-leaf	12*	**
Apply under favorable soil moisture and humidity, we days after irrigation. Grass needs to be actively grow Apply at weed stage indicated on the label, as reduibluegrass.	wing at time of application(s). ced control can be expected v	with more ma	ature annual
Use the high rate under heavy grass pressure and/	or when annual bluegrass is n	nore mature.	

See **Table 1** for crop specific adjuvant recommendations.

- \* Use a minimum of 17 fl oz per acre to control annual bluegrass in seedling and established alfalfa and mint (peppermint and spearmint).
- \*\* See Special Use Instructions and Restrictions in **Table 1**.

## DIRECTIONS FOR USE IN ROUNDUP READY FIELD CORN (BURNDOWN) (Not for Use in California)

		APPLICATION RATES	
GRASS SPECIES	Weed Size (Inches)	Rate when applied alone or with glyphosate	
Field Corn	Up to 12	6 fl oz/A	

For control of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn.

Care must be taken to avoid in field boom (spray) overlaps or excessive crop injury may occur. Replant no sooner than 6 days after application.

Adjuvant recommendations: NIS at 0.25% v/v plus AMS at 2.5 to 4 lb/A.

## Restriction

• Do not use a COC or MSO with this product in this use pattern.

## TANK MIXES - PRODUCT INFORMATION

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.

## TANK MIX APPLICATION OF LIBERTY CLETHODIM 1 AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

- Apply only to actively growing grass and broadleaf weeds at specified height or growth stage listed on each label.
- Apply when the first grass or broadleaf weed species in a mixed population reaches the specified height or growth stage for treatment.
- Apply under favorable soil moisture and humidity that exist a few days after rainfall or within seven days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the rate listed for each specific tank mix combination.
- Tank mix applications may sometimes result in reduced grass control and possible increases in crop injury as compared to either product used alone. If regrowth occurs, or an additional flush of new grass emerges, make a second application of LIBERTY CLETHODIM 1, as specified in the respective size and rate tables.
- **Restriction:** Do not tank mix LIBERTY CLETHODIM 1 when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

## MIXING INSTRUCTIONS

- 1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
- 2. While agitating, add the correct amount of LIBERTY CLETHODIM 1. Agitation should create a rippling or rolling action on the water surface.
- 3. If tank mixing LIBERTY CLETHODIM 1 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.
- 4. Add any required adjuvants (crop oil concentrate, non-ionic surfactant and/or nitrogen solution).
- 5. Fill spray tank to desired level with water. Agitation should continue until all spray solution has been applied.

Failure to agitate the spray solution may result in improper mixing of the herbicides and unsatisfactory weed control. Mixing and compatibility qualities should be verified by a jar test.

## INFORMATION ON ANTAGONISM

Tank mixes of LIBERTY CLETHODIM 1 with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species which would have otherwise been controlled when LIBERTY CLETHODIM 1 is applied alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

#### ALFALFA

## Table 2. LIBERTY CLETHODIM 1 TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA (Refer to tables above for specific grasses and growth stages)

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

PRODUCT <sup>(1)</sup>	APPLIC RATES//		SPRAY ADDITIVES			
		PERENNIAL	GROUND APPLICATION		AIR APPLICATION	
	GRASSES	GRASSES	Adjuvant Recommendation	AMS	Adjuvant Recommendation	AMS
LIBERTY CLETHODIM 1 + 2,4-DB <sup>(3)</sup>	12 to 32 fl oz + See 2,4-DB label for application rate.	16 to 32 fl oz + See 2,4-DB label for application rate.				
LIBERTY CLETHODIM 1 + Bromoxynil <sup>(4,5)</sup>	12 to 32 fl oz + See Bromoxynil label for application rate.	-	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25%	17 lb/100 gals of spray
LIBERTY CLETHODIM 1 + Imazamox	12 to 32 fl oz + See Imazamox label for application rate.	-		2.0 10/71		solution
LIBERTY CLETHODIM 1 + Imazethapyr <sup>(6)</sup>	12 to 32 fl oz + See Imazethapyr label for application rate.	-				

<sup>(1)</sup> Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not advised in these situations.

<sup>(2)</sup> If grass regrowth occurs or an additional flush of new grass emerges, make a second application of this product alone (without a tank mix herbicide), according to the appropriate size and rate directions.

- <sup>(3)</sup> This product plus 2,4-DB may increase the severity of crop injury when tank mixed. Alfalfa plants will generally outgrow this temporary crop injury within a few weeks.
- <sup>(4)</sup> In the states of Washington, Oregon, Idaho, Montana, Wyoming, Colorado, Utah, Nevada and the western halves of North Dakota, South Dakota, Nebraska, and Kansas: This product plus Bromoxynil tank mix must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliates. Unacceptable crop injury may occur to alfalfa seedlings less than the 2 trifoliate leaf stage. This product plus

Bromoxynil applications made when temperatures are expected to exceed 80°F at (and 3 days following) application can result in unacceptable crop injury. In the states not listed above, apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. When the alfalfa stand is uneven and conditions favor leaf burn, unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage of growth. This product plus Bromoxynil applications made when temperatures are expected to exceed 70°F at (and 3 days following) application can result in unacceptable crop injury. Crop leaf burn can occur following applications of this product plus Bromoxynil. Warm, humid conditions may enhance leaf burn. New crop growth will not be affected.

- <sup>(5)</sup> **Restriction:** Do not apply when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.
- <sup>(6)</sup> Before using this tank mix, read and understand the Imazethapyr label for geographical restrictions and restrictions regarding alfalfa growth stage and type. Failure to do so can result in crop injury to alfalfa. Do not feed, graze, or harvest alfalfa for 30 days following an application of Imazethapyr to alfalfa.

### CROP GROUP 11-10: FRUIT, POME; CROP GROUP 12-12: FRUIT, STONE; CROP SUBGROUP 13-07A: CANEBERRY AND CROP SUBGROUP 13-07B: BUSHBERRY

Apply LIBERTY CLETHODIM 1 postemergence to actively growing grasses according to prescribed rates in **Table 1**. Crop injury to Crop Group 11-10: Fruit, Pome; Crop Group 12-12: Fruit, Stone; Crop Subgroup 13-07A: Caneberry and Crop Subgroup 13-07B: Bushberry can occur if this product is improperly applied. LIBERTY CLETHODIM 1 must not be applied directly over the top of these plant types. Instead spray must be directed at the base of the plant where grassy weeds are growing near the ground.

Non-bearing fruit and nut crops are plants which will not bear fruit or nuts for at least one year following LIBERTY CLETHODIM 1 application.

#### Restriction

• Do not apply this product to Crop Group 11-10: Fruit, Pome; Crop Group 12-12: Fruit, Stone; Crop Subgroup 13-07A: Caneberry or Crop Subgroup 13-07B: Bushberry grown for root stock.

## CANOLA

#### (Except Flax)

## [Rapeseed Subgroup 20A] (except flax seed)]

## Table 3. REDUCED RATE LIBERTY CLETHODIM 1 TANK MIXES WITH BROADLEAF HERBICIDES (Refer to the tables above for specific grasses and growth stages.)

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

PRODUCT	APPLICATION RATE/ACRE	ADJUVANT	AMMONIUM SULFATE	
	ANNUAL GRASSES <sup>(1)</sup>		GROUND AIR	
LIBERTY				
CLETHODIM 1 <sup>(2)</sup>	8 to 10 fl oz			
+	+			
Glufosinate-	See Glufosinate-ammonium			
Ammonium <sup>(3)</sup>	label for application rate.	NIS at 0.25% v/v	3.0 lb/A	3.0 lb/A
LIBERTY		INIS at 0.2370 V/V	3.0 ID/A	3.0 ID/A
CLETHODIM 1 <sup>(2)</sup>	8 to 10 fl oz			
+	+			
Clopyralid <sup>(4)</sup>	See Clopyralid label for			
	application rate.			

<sup>(1)</sup> Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES table.

- <sup>(2)</sup> **Restriction:** Do not apply a tank mix including this product during or after bolting or flowering or crop injury may occur.
- <sup>(3)</sup> For use only on LibertyLink<sup>®</sup> canola.
- <sup>(4)</sup> See clopyralid label for weeds controlled.

## COTTON

## (Including cotton grown for seed)

## Table 4. LIBERTY CLETHODIM 1 TANK MIXED WITH LACTOFEN AND MSMA APPLIED POST DIRECTED TO COTTON

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

PRODUCT <sup>(1)</sup>	APPLICATION RATES/ACRE <sup>(2)</sup>		CROP OIL CONCENTRATE <sup>(3)</sup> V/V	
	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	
LIBERTY CLETHODIM 1 <sup>(4)</sup>	12 to 16 fl oz	16 to 32 fl oz	1%	
+ Lactofen +	See Lactofen label for rates to control broadleaf weeds and height limitations for cotton. Refer to this product's label for weed height and species controlled.			
MSMA	See MSMA label for rates to control broadleaf weeds and height limitations for cotton Refer to this product's label for weed height and species controlled.			

Reduce broadcast rate in proportion to the band area actually treated.

<sup>(1)</sup> Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

<sup>(2)</sup> If grass regrowth occurs or an additional flush of new grass emerges, make a second application of this product alone (without a tank mix herbicide), according to the appropriate size and rate directions.

- <sup>(3)</sup> Always use a crop oil concentrate at the listed rate (but not less than 1 pint per acre) in the finished spray volume.
- (4) If at the time of application, grass height is so tall that post-directed applications cannot get good coverage over the top of the grassy weeds, then poor control may result and a second (non-post directed) application of this product may be necessary.

## Table 5. LIBERTY CLETHODIM 1 TANK MIXED WITH GLYPHOSATE TO CONTROL EMERGEDGRASSES IN COTTON AS A BROADCAST APPLICATION

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

	APPLICATION F	RAES/ACRE <sup>(1)</sup>	ADJUVANT	
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	Glyphosate formulation <b>with</b> built in adjuvant	Glyphosate formulation <b>without</b> built in adjuvant
LIBERTY CLETHODIM 1 + Glyphosate	9 - 16 fl oz See glyphosate label broadleaf weeds and cotton.		AMS at 8.5 to 17 Ib per 100 gals of carrier plus glyphosate label adjuvant recommendation	AMS at 8.5 to 17 lb per 100 gals of carrier plus NIS at 0.25% v/v.

See charts for grasses controlled.

Use a minimum of 10 gallons of spray solution per acre.

<sup>(1)</sup> If grass regrowth occurs or an additional flush of new grass emerges, make a second application of this product at the specified rate with the appropriate amount of crop oil concentrate.

#### DRY SHELLED AND SUCCULENT BEANS AND PEAS [Succulent Shelled Pea and Bean Subgroup 6B] [Dried shelled Pea and Bean (except Soybean 6C] THODIM 1 TANK MIXES WITH BROADLEAF HERBICIDES

## Table 6. LIBERTY CLETHODIM 1 TANK MIXES WITH BROADLEAF HERBICIDES FOR DRY SHELLED AND SUCCULENT BEANS AND PEAS

#### (Refer to the tables above for specific grasses and growth stages.)

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

	APPLICATION	ADJUVANT		
PRODUCT <sup>(1)</sup>	ANNUAL PERENNIAL GRASSES GRASSES		GROUND	AIR
LIBERTY	9 – 12 fl oz	12 – 24 fl oz	COC at	COC at
CLETHODIM 1	+	+	1% v/v	1% v/v
+	See Bentazon label	See Bentazon label for	+	+
Bentazon	for application rate.	application rate.	AMS at	AMS at 17
			2.5 lb/A	lb/100 gal v/v
LIBERTY	9 – 12 fl oz		NIS at	NIS at
CLETHODIM 1	+		0.25% v/v	0.25% v/v
+	See Imazamox label	-	+	+
Imazamox	for application rate.		AMS at	AMS at 17
			2.5 lb/A	lb/100 gal v/v

<sup>(1)</sup> Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not advised in these situations.

<sup>(2)</sup> If grass regrowth occurs or an additional flush of new grass emerges, make a second application of this product alone (without a tank mix herbicide), according to the appropriate size and rate directions.

#### FLAX

## Table 7. REDUCED RATE LIBERTY CLETHODIM 1 TANK MIXED WITH BROADLEAF HERBICIDES FOR FLAX

#### (Refer to the tables above for specific grasses and growth stages)

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

DRODUCT	APPLICATION RATE/ACRE	ADJUVANT		
PRODUCT	ANNUAL GRASSES <sup>(1)</sup>	GROUND	AIR	
LIBERTY	6 – 9 fl oz			
CLETHODIM 1	+			
+	See 2,4-D + Clopyralid label for			
2,4-D + Clopyralid <sup>(2,3)</sup>	application rate.			
LIBERTY	6 – 9 fl oz			
CLETHODIM 1	+	AMS at		
+	See Bromoxynil label for	2.4 – 4.0 lb/A		
Bromoxynil <sup>(2,3)</sup>	application rate.	2.4 – 4.0 ID/A +	AMS at	
LIBERTY	6 – 9 fl oz	NIS at	2.5 – 4.0 lb/A	
CLETHODIM 1	+	0.125% v/v		
+	See Bromoxynil + MCPA label for	0.12370 070		
Bromoxynil + MCPA <sup>(2,3)</sup>	application rate.			
LIBERTY	8 - 10 fl oz			
CLETHODIM 1	+			
+	See MCPA label for application			
MCPA <sup>(2,3)</sup>	rate.			

<sup>(1)</sup> Annual grasses and sizes controlled with these tank mixtures are those that are identified in the "DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES" table.

- <sup>(2)</sup> **Restriction:** Do not apply a tank mix of this product during or after the bud stage or to ornamental flax or crop injury may occur.
- <sup>(3)</sup> **Restriction:** Do not apply tank mixes if temperatures are expected to exceed 85°F at (or 3 days following) application or crop injury may occur.

#### PEANUT Table 8. LIBERTY CLETHODIM 1 TANK MIXES WITH BROADLEAF HERBICIDES FOR PEANUT

### (Refer to the use directions tables above for specific grasses and growth stages.)

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

PRODUCT <sup>(1)</sup>	APPLICATION RATES/ACRE <sup>(2)</sup>	ADJUVANT			
FRODUCT	ANNUAL GRASSES	GROUND	AIR		
LIBERTY CLETHODIM 1	9 – 16 fl oz +				
+ Acifluorfen	See Acifluorfen label for application rate.	000 -1	000 -1		
LIBERTY CLETHODIM 1	9 – 16 fl oz +	COC at 1% v/v	COC at 1% v/v		
+ Bentazon	See Bentazon label for application rate.	AMS at 2.5 lb/A	AMS at 17 lb/100 gals		
LIBERTY CLETHODIM 1	9 – 16 fl oz +	2.0 10/74	17 10/ 100 gais		
+ Bentazon + Aciflurofen	See Bentazon + Aciflurofen label(s) for application rate.				

<sup>(1)</sup> Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not advised in these situations.

<sup>(2)</sup> If grass regrowth occurs or an additional flush of new grass emerges, make a second application of this product alone (without a tank mix herbicide), according to the appropriate size and rate directions.

#### GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT WITH LIBERTY CLETHODIM 1

		APPLICATION RATES		
GRASS SPECIES	WEED STAGE	MINIMUM RATE fl oz/A	MAXIMUM RATE fl oz/A	
Annual and perennial grasses that exceed height claimed for control on height charts "DIRECTIONS FOR ANNUAL GRASSES" and "DIRECTIONS FOR PERENNIAL GRASSES"	Up to and including grasses in the seed head stage.	32	64	
Add a crop oil concentrate at 1 quart per acre b <b>Restriction</b>	by ground to the finished sp	ray volume.		

• Do not apply as part of a tank mix when applying this product for grass suppression.

#### SOYBEAN

## Table 9. LIBERTY CLETHODIM 1 TANK MIX WITH BROADLEAF HERBICIDES FOR THE CONTROL OF VOLUNTEER CORN (INCLUDING ROUNDUP READY) IN SOYBEAN

#### (Refer to the use directions tables above for specific volunteer corn sizes and use rates.)

	WEED SIZE AND APPLICATION RATES		SPRAY ADDITIVES						
	VOLUNTEER	LIBERTY	GROUND AF	PPLICATION	AIR APPLICATION				
PRODUCT	CORN HEIGHT (inches)	CLETHODIM 1 RATES/ACRE	NIS	AMS	NIS	AMS			
LIBERTY CLETHODIM 1 + Glyphosate (1,2,3) See glyphosate label for application rates (Roundup Ready soybeans only)	HODIM 1 +Up to 24 Up to 369 fl oz 12 fl ozLoaded Glyphosate: None Required Mone Required Adjuvant Unloaded Glyphosate:application (Roundup soybeansAdjuvant Glyphosate:Unloaded Glyphosate:		8.5 to 17 Ib/100 gals of spray solution	Adjuvant Loaded Glyphosate: None Required Adjuvant Unloaded Glyphosate: NIS at 0.25% v/v	8.5 to 17 lb/100 gals of spray solution				
LIBERTY CLETHODIM 1 + Cloransulam-methyl See Cloransulam- methyl label for application rates.	Up to 12 Up to 24 Up to 36	6 fl oz 9 fl oz 12 fl oz							
LIBERTY CLETHODIM 1 + Imazethapyr See Imazethapyr label for application rates.	Up to 12 Up to 24 Up to 36	6 fl oz 9 fl oz 12 fl oz	NIS at 0.25% v/v	AMS at 2.5 lb/A	NIS at 0.25% v/v	17 lb/100 gals of spray solution			
LIBERTY CLETHODIM 1 + Imazamox See Imazamox label for application rates.	Up to 12 Up to 24 Up to 36	6 fl oz 9 fl oz 12 fl oz							

<sup>(1)</sup> This tank mix may be applied postemergence to Roundup Ready soybeans up through the full flowering stage. **Restriction:** Do not apply less than 60 days before harvest.

<sup>(2)</sup> Avoid contact with foliage, green stems or fruit crops or any desirable plants and trees, other than soybeans with the Roundup Ready gene as severe plant injury or death will result.

(3) Restriction: Do not allow this product plus glyphosate to mist, drip, drift or splash onto desirable vegetation as minute quantities of the tank mix can cause severe damage or destruction to the crops, plants or other areas on which treatment was not intended. The likelihood of injury occurring from drift of this product is greatest when winds are gusty or in excess of 5 miles per hour. Even under lesser wind velocities, avoid conditions that allow spray drift to occur such as combinations of spray pressure and nozzle type that will result in fine particles (mist) that are likely to drift.

## Table 10. LIBERTY CLETHODIM 1 TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN (Refer to the tables above for specific grasses and growth stages.)

	APPLICATION RATES/ACRE <sup>(2)</sup>		SPRA	ADDITIVE	
PRODUCT <sup>(1)</sup>	ANNUAL	GROUND APP	LICATION	AIR APPLI	CATION
PRODUCT	GRASSES (3)	COC/NIS <sup>(4)</sup>	AMS	COC/NIS (4)	AMS
LIBERTY CLETHODIM 1 + Chlorimuron ethyl <sup>(5)</sup> + Thifensulfuron methyl	12 to 20 fl oz + See Chlorimuron and Thifensulfuron labels for application rate.	NIS at 0.25% v/v or COC at 1 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution
LIBERTY CLETHODIM 1 + Chlorimuron ethyl <sup>(5)</sup> + Thifensulfuron methyl (STS Soybeans Only)	12 to 20 fl oz + See Chlorimuron and Thifensulfuron labels (STS Soybeans Only) for application rate.	NIS at 0.25% v/v or COC at 1 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution
LIBERTY CLETHODIM 1 + Chlorimuron ethyl <sup>(5)</sup> + Thifensulfuron methyl + Lactofen	12 to 20 fl oz + See Chlorimuron, Thifensulfuron and Lactofen labels for application rate.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution
LIBERTY CLETHODIM 1 + Chlorimuron ethyl <sup>(5)</sup> + Thifensulfuron methyl + Lactofen (STS Soybeans Only)	12 to 20 fl oz + See Chlorimuron, Thifensulfuron and Lactofen labels for application rates. (STS Soybeans Only) for application rate.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution
LIBERTY CLETHODIM 1 + Cloransulam-methyl <sup>(5)</sup>	9 to 20 fl. oz + See Cloransulam label for application rate.	NIS at 0.25% v/v or COC at 1 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution
LIBERTY CLETHODIM 1 + Cloransulam-methyl <sup>(5)</sup> + Flumetsulam	9 to 20 fl oz + See Cloransulam and Flumetsulam labels for application rate.	NIS at 0.25% v/v or COC at 1 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution
LIBERTY CLETHODIM 1 + Cloransulam-methyl <sup>(5)</sup> + Flumiclorac + Lactofen	9 to 20 fl oz See Cloransulam, Flumiclorac and Lactofen labels for application rate.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	-	-

	APPLICATION RATES/ACRE <sup>(2)</sup>				Y ADDITIVE			
	ANNUAL	GROUND APP	LICATION	AIR APPLICATION				
PRODUCT <sup>(1)</sup>	GRASSES (3)	COC/NIS <sup>(4)</sup>	AMS	COC/NIS (4)	AMS			
LIBERTY CLETHODIM 1 + Cloransulam-methyl <sup>(5)</sup> + Fomesafen <sup>(5)</sup>	9 to 20 fl oz + See Cloransulam and Fomesafen labels for application rate.	NIS at 0.25% v/v plus COC at 0.25% v/v or Equivalent blended product or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution			
LIBERTY CLETHODIM 1 + Cloransulam-methyl <sup>(5)</sup> + Lactofen	9 to 20 fl oz + See Cloransulam and Lactofen labels for application rate.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution			
LIBERTY CLETHODIM 1 + Flumiclorac	9 to 20 fl oz + See Flumiclorac label for application rate.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	-	-			
LIBERTY CLETHODIM 1 + Flumiclorac + Imazethapyr <sup>(5)</sup>	12 to 20 fl oz + See Flumiclorac and Imazethapyr labels for application rate.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	-	-			
LIBERTY CLETHODIM 1 + Flumiclorac + Lactofen	9 to 20 fl oz + See Flumiclorac and Lactofen labels for application rate.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	-	-			
LIBERTY CLETHODIM 1 + Fomesafen <sup>(5)</sup>	9 to 20 fl oz + See Fomesafen label for application rate.	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than	17 lb/100 gals of spray solution			
LIBERTY CLETHODIM 1 + Imazamox <sup>(5)</sup>	12 to 20 fl oz + See Imazamox label for application rate.	NIS at 0.25% v/v or COC at 1 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution			
LIBERTY CLETHODIM 1 + Imazamox <sup>(5)</sup> + Lactofen	12 to 20 fl oz + See Imazamox and Lactofen labels for application rate.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution			

	APPLICATION RATES/ACRE <sup>(2)</sup>	SPRAY ADDITIVE				
PRODUCT <sup>(1)</sup>	ANNUAL	GROUND APPLICATION AIR APPLIC			CATION	
	GRASSES <sup>(3)</sup>	COC/NIS (4)	AMS	COC/NIS <sup>(4)</sup>	AMS	
LIBERTY CLETHODIM 1 + Imazethapyr <sup>(5)</sup>	12 to 20 fl oz + See Imazethapyr label for application rate.	NIS at 0.25% v/v or COC at 1 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution	
LIBERTY CLETHODIM 1 + Imazethapyr <sup>(5)</sup> + Lactofen	12 to 20 fl oz + See Imazethapyr and Lactofen labels for application rate.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC at 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution	
LIBERTY CLETHODIM 1 + Lactofen	9 to 20 fl oz + See Lactofen label for application rate.	NIS at 0.25% v/v plus COC at 0.125 to 0.25% v/v or COC at 1 to 2 pt/A	AMS at 2.5 lb/A	NIS at 0.25% v/v plus COC at 0.25% v/v or COC 1% v/v (but not less than 1 pt/A)	17 lb/100 gals of spray solution	
LIBERTY CLETHODIM 1 + Lactofen + Thifensulfuron methyl <sup>(5)</sup>	9 to 12 fl oz + See Lactofen and Thifensulfuron labels for application rate.	NIS at 0.125 to 0.25% v/v plus COC at 0.125% v/v	AMS at 2.5 lb/A	-	-	
LIBERTY CLETHODIM 1 + Thifensulfuron methyl <sup>(5)</sup>	9 to 12 fl oz + See Thifensulfuron label for application rate.	NIS at 0.125 to 0.25% v/v	AMS at 2.5 lb/A	-	-	

<sup>(1)</sup> Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not advised in these situations.

<sup>(2)</sup> If grass regrowth occurs or an additional flush of new grass emerges, make a second application of this product alone (without a tank mix herbicide), according to the appropriate size and rate prescribed.

- <sup>(3)</sup> Annual grasses and sizes controlled with these tank mixtures are those that are identified in the "DIRECTIONS FOR ANNUAL GRASSES" table.
- <sup>(4)</sup> Contact local LIBERTY CROP PROTECTION representative for proper COC/NIS adjuvant selection.

<sup>(5)</sup> Refer to product label for geographic and rotational restrictions.

### SUGAR BEET

### Table 11. LIBERTY CLETHODIM 1 TANK MIXED WITH BROADLEAF SUGAR BEET HERBICIDES

APPLICATION RATES/ACRE	ADJUVANT INFORMATION
9 -12 fl oz	
+	
See product label of	None required
herbicide(s) being used for	
application rate.	None required
	See below
	See below
	9 -12 fl oz + See product label of herbicide(s) being used for

NIS at 25% unless Desmedipham or Phenmedipham + Desmedipham + Ethofumesate is in the tank, then use no adjuvant.

## Table 12. LIBERTY CLETHODIM 1 PLUS DESMEDIPHAM TANK MIX FOR THREE SEQUENTIAL APPLICATIONS FOR ANNUAL GRASS CONTROL (MICRO RATE APPLICATION)

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

PRODUCT	APPLICATION RATE/ACRE <sup>(1)</sup>	GRASSES CONTROLLED (Inches)	METHYLATED SEED OIL <sup>(2)</sup>		
ANNUAL GRASSES			GROUND	AIR	
LIBERTY	3 – 6 fl oz	Barnyardgrass (1 – 2)	1.5% v/v	1.5% v/v	
CLETHODIM 1	+	Foxtail, Green (1 – 2)			
+	See product label of	Foxtail, Yellow $(1 - 2)$			
Desmedipham	herbicide(s) being used for	Volunteer Cereals (1 – 2)			
or	application rate.	Wild Oat (1 – 2)			
Phenmedipham +					
Desmedipham +					
Ethofumesate					
or					
Clopyralid					
or					
Triflusulfuron-					
methyl					

<sup>(1)</sup> Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mix is not advised in these situations.

<sup>(2)</sup> Always use a methylated seed oil at the listed rate (but not less than 1 pint per acre) in the finished spray volume.

#### Directions for Use for Micro-Rate Applications to Sugar Beet

Multiple micro-rate applications of LIBERTY CLETHODIM 1 in tank mixtures with reduced rates of Desmedipham and methylated seed oils may be applied by air or ground equipment to sugar beet to control early germinating annual grasses listed above. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## Table 13. TANK MIX APPLICATION OF LIBERTY CLETHODIM 1 AND FUNGICIDES FOR CONTROL OF GRASS WEEDS AND DISEASES IN SUGAR BEET

	APPLICATION I	ADJUVANT	
FRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	ADJUVANI
LIBERTY CLETHODIM 1	9 – 12 fl oz	12 – 24 fl oz	
+	+	+	
Pyraclostrobin	See product label of the	See product label of the	
LIBERTY CLETHODIM 1	fungicide being used for	fungicide being used for	NIC of
+	application rate.	application rate.	NIS at
Tetraconazole			0.25% v/v
LIBERTY CLETHODIM 1			
+			
Trifloxystrobin			

<sup>(1)</sup> Refer to labels for this product and fungicide product for rates and weeds and diseases controlled.

<sup>(2)</sup> If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of this product alone (without a tank mix fungicide), according to the appropriate size and rate directions.

# Table 14. TANK MIX APPLICATION OF LIBERTY CLETHODIM 1 AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, MINT (PEPPERMINT AND SPEARMINT), PEANUT, SOYBEAN AND SUNFLOWER

	APPLICATION RATES/ACRE <sup>(2)</sup>				CROP													
PRODUCT <sup>(1)</sup>	ANNUAL GRASSES	PERENNIAL GRASSES	ADJUVANT RECOMMENDATION	Alfalfa <sup>(3)</sup>	Cotton	Mint (Peppermint, Spearmint) <sup>(3.4)</sup>	Peanut	Soybean	Sunflower									
LIBERTY CLETHODIM 1 + Acephate					Х	Х	Х	Х										
LIBERTY CLETHODIM 1 +	-			Х				Х										
Beta-cyfluthrin LIBERTY CLETHODIM 1 + Chlorpyrifos	9 – 12 fl oz + See product label of the	12 – 24 fl oz + See product label of the insecticide being used for application rate.	+ See product label of the insecticide being used for application	+ See product label of the	+ See product label of the	+ See product label of the	NIS @ 0.25% v/v	Х				Х						
LIBERTY CLETHODIM 1 + Dimethoate	insecticide being used for application								+ AMS @ 2.5 lb/A	Х				Х				
LIBERTY CLETHODIM 1 + Esfenvalerate	- rate.								Х	Х								
LIBERTY CLETHODIM 1 + Fenpropathrin					Х		Х											

LIBERTY						Х	Х
CLETHODIM 1							
+							
Lambda-cyhalothrin							
LIBERTY				Х		Х	
CLETHODIM 1							
+							
Permethrin							

- <sup>(1)</sup> Refer to labels for this product and insecticide product for rates and weeds and insects controlled.
- <sup>(2)</sup> If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of this product alone (without a tank mix insecticide) according to the appropriate size and rate directions.
- <sup>(3)</sup> Certain insecticides may cause temporary phytotoxic symptoms on alfalfa and mint (peppermint and spearmint) foliage. Refer to the insecticide label for further information. It is suggested that prior to using any of these insecticides/herbicide tank mixtures, that a small area of the field be treated first and observations for crop injury be made prior to treating the whole field.
- <sup>(4)</sup> The rate of this product is 9 to 12 fl oz (0.068 to 0.091 lb a.i.) per acre for annual grass control in baby mint (peppermint and spearmint), minimum of 12 fl oz (0.091 lb a.i.) per acare for annual grass control in established mint (peppermint and spearmint), 16 to 32 fl oz (0.121 to 0.242 lb a.i.) per acre for perennial grass control.

#### FALLOW LAND

#### **Directions for Use**

LIBERTY CLETHODIM 1 may be used to control annual and perennial grasses in land that has been left fallow the previous year and other non-producing agricultural areas. Apply LIBERTY CLETHODIM 1 at 12 to 16 fl oz (0.121 lb a.i.) per acre for annual grasses and 16 to 32 fl oz (0.121 to 0.242 lb a.i.) per acre for perennial grasses. When both grass and broadleaf weeds are the target pest, LIBERTY CLETHODIM 1 may be tank mixed with 2,4-D ester or Dicamba for broad spectrum control. When both annual and perennial grasses occur in the same field, use a minimum of 16 fl oz (0.121 lb a.i.) per acre of this product. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

#### Precautions

- Use a minimum spray volume of 5 gallons per acre for aerial applications and 15 gallons per acre for ground applications.
- Apply only to actively growing grasses when the first grass reaches the specified weed height as specified by the Annual and Perennial Grasses section of this label.
- Annual grasses that emerge after an application of this product will not be controlled, and a second application may be necessary.
- The control of perennial grasses may require more than 1 application in non-tilled areas.

#### Restrictions

- Do not apply more than 32 fl oz (0.242 lb ai) per acre per application.
- Do not apply more than 64 fl oz (0.485 lb ai) per acre per year.
- Do not make more the 4 applications per year.
- Do not apply to grasses that have tillered, formed seedheads or exceeded specified growth stage.
- Do not use flood jet nozzles.
- Do not apply to drought stressed grasses.
- Do not mow area for 2 weeks prior to or after an application of this product.

## Table 15. LIBERTY CLETHODIM 1 IN TANK MIXES TO CONTROL ANNUAL AND PERENNIALGRASSES IN FALLOW LAND

	APPLICATION R		ADJUVANT REC	OMMENDATIONS
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	GROUND	AIR
LIBERTY	12 – 16 fl oz	16 – 32 fl oz	NIS at 0.25% v/v	NIS at 0.25% v/v
CLETHODIM 1	+	+	or	or
+	See 2,4-D ester	See 2,4-D ester	COC at 1%	COC at 1%
2,4-D ester	or Dicamba label	or Dicamba label	+	+
or	for application	for application	AMS at 2.5 lb/A	AMS at 17 lb/100
Dicamba	rates.	rates.		gals

<sup>(1)</sup> Refer to the label for this product for weed height and species control. Review 2,4-D and Dicamba labels for crop restrictions, use rates and weeds controlled.

#### **USE DIRECTIONS FOR GRASS SUPPRESSION IN NON-CROP AREAS WITH LIBERTY CLETHODIM 1**

		APPLICAT	ION RATES
GRASS SPECIES	WEED STAGE	MINIMUM RATE fl oz/A	MAXIMUM RATE fl oz/A
Annual and perennial grasses that exceed height claimed for control on height charts above.	Up to and including grasses in the seed head stage.	24	32

Add a crop oil concentrate at 1 quart per acre by ground to the finished spray volume. **Restriction** 

• Do not apply as part of a tank mix when applying this product for grass suppression.

## Table 16. LIBERTY CLETHODIM 1 FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS

PRODUCT	PRODUCT RATES		WEEDS SUPPRESSED	WEED
PRODUCT	PRODUCT RATES	Common Name	Scientific Name	STAGES
LIBERTY CLETHODIM 1	12 – 16 fl oz/A	Tall Fescue	Festuca arundinacea	4 to 6 inches tall (40 to 60% green-up)

**Adjuvant:** This product must be applied with non-ionic surfactant at 0.25% v/v, plus a spray grade ammonium sulfate at 2.5 to 4 lb per acre.

**Recommended Mixing Order:** Thoroughly mix spray grade ammonium sulfate in water, add this product, then add crop oil concentrate.

#### **Application Instructions**

- Burn or mow fields a minimum of 3 weeks prior to application to remove excess crop residue. Apply in the spring, at 40 to 60% tall fescue green-up, prior to emergence of warm season grasses.
- Apply in a minimum of 15 to 20 gallons of water per acre at a spray pressure of 40 to 60 PSI at the nozzle. Apply using flat fan or hollow cone nozzles.
- Apply only to fields that have warm-season grasses established for 2 years. Application of this herbicide to emerged warm-season grasses may cause injury.
- Applications of this product are most effective if applied when average nighttime temperatures are consistently greater than or equal to 47°F.

#### **Application Restrictions**

- Do not mow area for 2 weeks after the application of this product.
- Do not use flood jet nozzles.
- Do not apply to warm-season grasses grown for seed.
- Do not graze treated fields or feed treated forage and or hay to livestock.

#### Table 17. LIBERTY CLETHODIM 1 FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON-PRODUCING AGRICULTURAL AREAS

PRODUCT	PRODUCT RATE	SUPPRESSION	<b>APPLICATION TIMING</b>				
LIBERTY	3 - 4 fl oz/A	Tall Fescue Seed-Heads	(50 to 90% Tall Fescue				
CLETHODIM 1		( <i>Festuca arundinacea</i> )	green-up) or 3 weeks				
			prior to dormancy in the				
			fall.				
	<b>Adjuvant:</b> This product must be applied with crop oil concentrate at 1 quart per acre, plus a spray grade ammonium sulfate at 2.5 to 4 lb. per acre.						
		ray grade ammonium sulfate	in water, add this product,				
then add crop oil concentrate.							
Note: Use crop oil concer	Note: Use crop oil concentrate at 2 pints per acre with fall applications.						

#### Application Instructions

- Apply at 50 to 90% tall fescue green-up.
- Use the higher rate of this product if less tall fescue green matter is present.
- Apply in a minimum of 15 to 20 gallons of water per acre at a spray pressure of 40 to 60 PSI at the nozzle. Apply using flat fan or hollow cone nozzles.
- 2,4-D ester, 2,4-D + Picloram, 2,4-D + Triclopyr or Picloram may be added to this tank mix for broadleaf control (see product labels for weeds controlled). It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

#### **Application Restrictions**

- Do not mow area for 2 weeks after an application of this product.
- Do not use flood nozzles.
- Do not graze treated fields or feed treated forage an or hay to livestock.

#### ORNAMENTALS

For ornamental plant uses, LIBERTY CLETHODIM 1 can be used to control labeled grass weeds in greenhouses, bathhouses, shadehouses, and around outdoor ornamentals, including nurseries, parks, roadside plantings, and structure landscapes.

#### IMPORTANT

LIBERTY CLETHODIM 1 successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant safety to LIBERTY CLETHODIM 1 at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of LIBERTY CLETHODIM 1 have investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a plant safety for LIBERTY CLETHODIM 1 applications:

ORNAMENTAL TREES				
COMMON NAME	SCIENTIFIC NAME			
Alder, Red	Alnus rubra			
Ash	<i>Fraxinus</i> spp.			
Basswood	<i>Tilia</i> spp.			
Birch, European White	Betula pendula			
Birch, River	Betula nigra			
Birch, White	Betula papyrifera			
Crabapple, Flowering	Malus halliana			
Dogwood, Flowering	Cornus florida			
Golden Chain Tree	Laburnum anagyroides			
Maples	Acerspp.			

COMMON NAME	SCIENTIFIC NAME
Mulberry, White	Morus alba
Oaks	<i>Quercus</i> spp.
Olive, Wild	Elaeagnus angustifolia
Redbud, Eastern	Cercis Canadensis
Sweet Gum, American	Liquidambar styraciflua

#### **GROUND COVERS** COMMON NAME SCIENTIFIC NAME Bugleweed, Carpet Ajuga reptans Ivy, English Hedera helix Japanese Spurge Pachysandra terminalis Lilyturf Liriope muscari Moneywort Lysimachia nummularia Mondo Grass, White Ophiopogon jaburan Mondo Grass Dwarf Ophiopogon japonicas Periwinkle, Lesser Vinca minor

## GARDEN FLOWERS AND PLANTS

COMMON NAME	SCIENTIFIC NAME	
Ageratum	Ageratum spp.	
Alyssum*, Sweet	Lobularia maritima	
Asparagus Fern	Asparagus setaceus	
Bleeding Heart	Dicentra spectabilis	
Cast Iron Plant	Aspidistra elatior	
Chrysanthemum	Chrysanthemum spp.	
Cinquefoil	Potentilla spp.	
Coleus	Coleus spp.	
Coralbells	Heuchera sanguinea	
Cranesbill	<i>Geranium</i> spp.	
Dahlia	<i>Dahlia</i> spp.	
Daisy, Trailing African	Osteospermum fruticosum	
Daylily	Hemerocallis spp.	
Dusty Miller	Senecio cineraria	
Euonymus	<i>Euonymus</i> spp.	
Gazania	<i>Gazania</i> spp.	
Geranium, House	Pelargonium hortorum	
Heather, False	Cuphea hyssopifolia	
Hosta	Hosta fortunei	
Iris	<i>Iris</i> spp.	
Jasmine Tobacco	Nicotiana alata	
Loosestrife	Lythrum salicaria	
Marigold	<i>Tagetes</i> spp.	
Partridgeberry	Mitchella repens	
Petunia*	Petunia hybrida	
Phlox	<i>Phlox</i> spp.	
Pinks	<i>Dianthus</i> spp.	
Portulaca	Portulaca grandiflora	
Salvia	<i>Salvia</i> spp.	
Saxifrage	<i>Saxifrage</i> spp.	
Sedum	Sedum spp.	
Selloum	Philodendron selloum	
Snapdragon*	Antirrhinum majus	
Sweet Flag	Acorus gramineus	

COMMON NAME	SCIENTIFIC NAME		
Tickseed	Coreopsis grandiflora		
Touch-Me-Not	Impatiens spp.		
Verbena	Verbena spp.		
Violet	Viola spp.		
Yarrow, Common	Achillea millefolium		
Zinnia	Zinnia elegans		

\* Slight foliage or flower speckling has been observed on these species.

SHRUBS				
COMMON NAME	SCIENTIFIC NAME			
Abelia	Abelia spp.			
Anise, Purple	Illicium floridanum			
Aucuba	Aucuba spp.			
Azalea*	Rhododendron spp.			
Bamboo	Bambusa spp.			
Barberry, Japanese	Berberis thunbergii			
Barberry, Magellan	Berberis buxifolia			
Bayberry	Myrica pensylvanica			
Bottlebrush	Callistemon citrinus			
Boxwood, Common	Buxus sempervirens			
Camellia, Common	Camellia japonica			
Candytuft	Iberis sempervirens			
Cleyera	Cleyera japonica			
Coralberry	Ardisia crenata			
Crape Myrtle	Lagerstroernia indica			
Coyote Brush	Baccharis pilularis			
Fig, Creeping	Ficus pumila			
Gardenia	<i>Gardenia</i> spp.			
Holly	//es spp.			
Honeysuckle	Lonicera spp.			
Indian Hawthorn	Raphiolepis indica			
Jasmine	Jasminum spp.			
Jasmine, Asiatic	Trachelospermum asiaticum			
Jasmine, Star	Trachelospermum jasminoides			
Juniper	Juniperus spp.			
Lantana	<i>Lantana</i> spp.			
Nandina* Bamboo, Heavenly	Nandinia domestica			
Oleander, Common	Nerium oleander			
Oregon Grape	Mahonia aquifolium			
Photinia	Photinia spp.			
Pittosporum	<i>Pittosporum</i> spp.			
Podocarpus	Podocarpus spp.			
Privet	Ligustrum spp.			
Pyracantha	<i>Pyracantha</i> spp.			
Rhododendron	Rhododendron spp.			
Rose	Spiraea bumalda			
Spirea	Spiraea bumalda			
Sweet Olive	Osmanthus fragrans			
Viburnum	Viburnum tinus			
Wisteria	Wisteria spp.			
Yellow Sage/Shrub Verbena	Lantana camara			
Slight foliage or flower speckling has been				

\* Slight foliage or flower speckling has been observed on these species.

#### **USE DIRECTIONS FOR ANNUAL GRASSES IN ORNAMENTALS**

- Apply only to actively growing grasses at specified weed heights.
  Apply when the first grass weed species in a mixed grass and weed population reaches the specified growth stage for treatment. • Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

#### Restrictions

- Do not apply more than the maximum rate listed below per application.
- Do not exceed the maximum yearly rate listed in Table 1.
- Do not make more than four applications per year.

		WEED+	APPICATI	ON RATES
GRASS SPECIES	SCIENTIFIC NAME	WEED* HEIGHT INCHES	MINIMUM RATE fl oz/A <sup>(1)</sup>	MAXIMUM RATE fl oz/A <sup>(2)</sup>
Barnyardgrass	Echinochloa crus-galli	2 to 8	12	32
Broadleaf Signalgrass	Brachiaria platyphylla	2 to 6	12	32
Brome				
California	Bromus carinatus	2 to 6	12	32
Cheat	Bromus secalinus	2 to 6	12	32
Downy	Bromus tectorum	2 to 6	12	32
Ripgut	Bromus diandrus	2 to 6	12	32
Canarygrass	Phalaris canariensis	1 to 4	12	32
Crabgrass				
Hairy	Digitaria adscendens	2 to 6**	12	32
Large	Digitaria sanguinalis	2 to 6**	12	32
Smooth	Digitaria ischaemum	2 to 6**	12	32
Southern	Digitaria ciliaris	2 to 6**	12	32
Crowfootgrass	Dactyloctenium aegyptium	2 to 6**	12	32
Fall Panicum	Panicum dichotomiflorum	2 to 8	12	32
Field Sandbur	Cenchrus incertus	2 to 6	12	32
Foxtail				
Giant	Setaria faberi	2 to 12	12	32
Green	Setaria viridis	2 to 8	12	32
Yellow	Setaria glauca	2 to 8	12	32
Goosegrass	Eleusine indica	2 to 6**	12	32
Itchgrass	Rottboellia cochin	2 to 6	12	32
Junglerice	Echinochloa colona	2 to 6	12	32
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2 to 6	12	32
Rabbitsfootgrass	Polypogon monspeliensis	1 to 4	12	32
Red Rice	Oryza sativa	1 to 3	12	32
Ryegrass		~		
Hardy	Lolium remotum	2 to 6	12	32
Italian	Lolium multiflorum	2 to 6	12	32
Seedling Johnsongrass	Sorghum halepense	4 to 10	12	32
Shattercane	Sorghum bicolor	6 to 18	12	32
Southwestern Cupgrass	Eriochloa gracilis	2 to 6	12	32
Sprangletop				
Amazon	Leptochloa panicoides	2 to 6	12	32
Bearded	Leptochloa fascicularis	2 to 6	12	32
Mexican	Leptochloa uninervia	2 to 6	12	32
Red	Leptochloa filiformis	2 to 6	12	32
Texas Panicum	Panicum texanum	2 to 6	12	32
Volunteer Cereals				

		WEED+	APPICATI	APPICATION RATES		
GRASS SPECIES	SCIENTIFIC NAME	WEED* HEIGHT INCHES	MINIMUM RATE fl oz/A <sup>(1)</sup>	MAXIMUM RATE fl oz/A <sup>(2)</sup>		
Barley	Hordeum vulgare	2 to 6	12	32		
Oats	Avena sativa	2 to 6	12	32		
Rye	Secale cereale	2 to 6	12	32		
Wheat	Triticum aestivum	2 to 6	12	32		
Volunteer Corn	Zea mays	4 to 12	12	16		
Volunteer Corn	Zea mays	12 to 24	12	32		
Volunteer Grain Sorghum	Sorghum bicolor	8 to 12	12	32		
Wild Oats	Avena fatua	2 to 6	12	32		
Wild Proso Millet	Panicum miliaceum	2 to 10	12	32		
Witchgrass	Panicum capillare	2 to 8	12	32		
Woolly Cupgrass	Eriochloa villosa	2 to 8	12	32		

\* Generally occurs between 3-leaf stage and tillering.

\*\* Length of lateral growth.

<sup>(1)</sup> 16 fl oz (0.121 lb ai) per acre = approximately 0.4 fl. oz. per 1000 sq. ft.

<sup>(2)</sup> 32 fl oz (0.242 lb ai) per acre = approximately 0.8 fl. oz. per 1000 sq. ft.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pint per 50 gallons (0.25% v/v).

#### USE DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH LIBERTY CLETHODIM 1 IN ORNAMENTALS

		APPLICATION RATES	
GRASS SPECIES	WEED STAGE	MINIMUM RATE fl oz/A	MAXIMUM RATE fl oz/A
Annual Bluegrass ( <i>Poa annua</i> )	to 4-leaf	12	32
Apply upder favorable soil mainture and humi	dity that aviate within a f	w dava after rainfa	ll or within 7 days

Apply under favorable soil moisture and humidity that exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).

Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pint per 50 gallons (0.25% v/v).

#### **USE DIRECTIONS FOR PERENNIAL GRASSES**

- Apply only to actively growing grasses at specified weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the specified growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

#### Restrictions

- Do not apply more than the maximum rate listed below per application.
- Do not exceed the maximum yearly rate listed in Table 1.
- Do not make more than four applications per year.

		APPLICATION RATE	
GRASS SPECIES	WEED HEIGHT (inches)	MINIMUM RATE fl oz/A	MAXIUMUM RATE fl oz/A
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6" runners)	12	32
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	12	32

Foxtail Barley ( <i>Hordeum jubatum</i> )			
First Application	2-6	12	32
Repeat Application(s) (if regrowth occurs)	2 – 6	12	32
Quackgrass ( <i>Elytrigia repens</i> )			
First Application	4 – 8	12	32
Repeat Application(s) (if regrowth occurs)	4 – 8	12	32
Rhizome Johnsongrass ( <i>Sorghum halepense</i> )			
First Application	12 – 24	12	32
Repeat Application(s) (if regrowth occurs)	6 – 18	9	16
Wirestem Muhly (Muhlenbergia frondosa)			
First Application	4 – 8	12	32
Repeat Application(s) (if regrowth occurs)	4 – 8	12	32

<sup>(1)</sup> 16 fl oz (0.121 lb ai) per acre = approximately 0.4 fl oz per 1000 sq. ft.

 $^{(2)}$  32 fl oz (0.242 lb ai) per acre = approximately 0.8 fl oz per 1000 sq. ft.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pint per 50 gallons (0.25% v/v)

#### IMPORTANT

Plant safety to this product at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if the herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of this product have investigated the safety factor to plants not listed on the label.

#### NON-BEARING FOOD TREES

LIBERTY CLETHODIM 1 must not be applied to non-bearing fruit or nut crops which are grown for root stock.

Crop injury to non-bearing fruit and nut trees can occur if LIBERTY CLETHODIM 1 is improperly applied. LIBERTY CLETHODIM 1 must not be applied directly over the top of these plants types. Instead spray should be directed at the base of the plant where grassy weeds are growing near the ground.

Non-bearing fruit and nut trees are plants which will not bear fruit or nuts for at least one year following application of LIBERTY CLETHODIM 1.

#### Restrictions

- Do not exceed the maximum per application rate listed in **Table 1**.
- Do not exceed the maximum yearly rate listed in **Table 1**.
- Do not make more than four applications per year.

COMMON NAME	SCIENTIFIC NAME	
Apples	<i>Malus</i> spp.	
Berries	Vaccinium spp.	
	<i>Rubus</i> spp	
Cherry, sweet	Prunus avium	
Citrus fruits	<i>Citrus</i> spp.	
Grapes	<i>Vitis</i> spp.	
Olives	<i>Olea</i> spp.	
Peach	Prunus persica	
Pears	Pyrus communis	

Prunes	Prunus spp.	
Stone fruits	Prunus spp.	
Strawberries	<i>Fragaria</i> spp.	
Tree nuts		
Almond	Prunus triloba	
Filbert	Corylus maxima	
Pecan	Carya illinoinensis	
Pistachio	Pistacia vera	
Walnut	<i>Juglans</i> spp.	

#### **CONIFER TREES**

LIBERTY CLETHODIM 1 can be used to control labeled grasses in Christmas tree farms, conifer nurseries and conifer plantations (but not in forests).

#### Restrictions

- Do not exceed the maximum per application rate listed in **Table 1**.
- Do not exceed the maximum yearly rate listed in **Table 1**.
- Do not make more than four applications per year.

COMMON NAME	SCIENTIFIC NAME	
Arborvitae, American	Thuja occidentalis	
Cedars	Cedrus spp.	
Cypress	Taxodium spp.	
Fir, Douglas	Pseudotsuga menziesii	
Firs	Abies spp.	
Hemlock, Canadian/Eastern	Tsuga Canadensis	
Hemlock, Western	Tsuga heterophylla	
Pines	Pinus spp.	
Spruces	Picea spp.	
Yew	<i>Taxus</i> spp.	

#### NON-CROP OR NON-PLANTED AREAS

The following areas are considered non-crop or non-planted areas: Rights-of-way including railroads, highways, roads, dividers, medians, pipelines, public utility lines, pumping stations, transformer stations and substations. Around airports, electric utilities, commercial buildings, manufacturing plants, storage yards, rail yards, fence lines, parkways, and post-harvest croplands. Also beneath greenhouse benches and around golf courses.

#### Restrictions

- Do not exceed the maximum per application rate listed in **Table 1**.
- Do not exceed the maximum yearly rate listed in **Table 1**.
- Do not make more than four applications per year.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

#### Pesticide Storage

Store in original containers only. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Do not store diluted spray. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

#### 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**

**NONREFILLABLE CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS):** 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. Offer for recycling, if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**NONREFILLABLE CONTAINER (GREATER THAN 5 GALLONS):** 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. 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. Offer for recycling, if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Pressure rinse as follows (all sizes):** 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.

**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. After triple rinsing is complete, and the container is not suitable for refilling or reconditioning, offer the container for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of LIBERTY CROP PROTECTION, LLC or Seller. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW all such risks shall be assumed by Buyer and User and Buyer and User agree to hold LIBERTY CROP PROTECTION, LLC and Seller harmless for any claims relating to such factors.

LIBERTY CROP PROTECTION, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or LIBERTY CROP PROTECTION, LLC, and TO THE EXTENT CONSISTENT WITH APPLICABLE LAW Buyer and User assume the risk of any such use. To the extent consistent with applicable law LIBERTY CROP PROTECTION, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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