AvengerAG® Burndown Herbicide
approved for certified organic agriculture and farming
AvengerAG® Burndown Herbicide

- AvengerAG® Burndown Herbicide is a non-selective, post-emergence herbicide that quickly and effectively kills weeds, grasses and broadleaves without causing harm to the environment
- Designed for organic farming and agriculture
- Works in cool & cloudy conditions (as low as 50º F)
- An economical alternative to hand weeding, flaming, mowing, cultivation and other natural herbicides
- The active ingredient d-limonene (citrus oil) naturally strips away the waxy plant cuticle, causing it to desiccate and die
- When tested against herbicides that contain, vinegar (acetic acid), citric acid and essential oils, it is proven to be more effective with quicker results
- Non-toxic – can be used in areas near to people, pets and wildlife
- Highly biodegradable – dissipates quickly
AvengerAG® Burndown Herbicide

- Controls most weeds, grasses and broadleaves including: Spurge, Sowthistle, Redroot Pigweed, Tumbling Pigweed, Annual Bluegrass, Shepherd’s Purse, Common Purselane, Common Chickweed, Clover, Hairy Fleabane, Crabgrass, Smooth Crabgrass, Dandelion, Whitestem Filaree, Bermuda Grass, Bindweed, Shepherds Purse, Prickly Lettuce, Lambsquarters and Little Mallow
- More coverage per concentrated gallon vs. leading competitors (1:4 or 1:6 parts per formulation)
- Can be used in commercial spraying equipment to directly spray onto weeds
- Emulsion technology – visually reference your spray target
- Made from oranges – pleasant citrus aroma
- Currently registered in: TX, FL, CA, GA, OR, PA, VA, WA, HI, TN, OH, SC. Additional States will be added in 2015.
- Patented formula
- Made in the USA
AvengerAG® Burndown Herbicide - Seals of Approval

- Organic Materials Review Institute (OMRI) listed product
  - OMRI provides organic certifiers, growers, manufacturers, and suppliers an independent review of products intended for use in certified organic production, handling, and processing

- EPA registered (No. 82052-4) and approved – Full Crop & Non-Crop Registration
  - EPA approval under the label language indicating that all ingredients (active and inert) in a pesticide product and all uses meet the criteria defined by the U.S. Department of Agriculture (USDA) National Organic Program (NOP) Rule

- Approved for Use in Organic Production through the National Organic Program (NOP) - NOP Final Rule
  - “FOR ORGANIC PRODUCTION” is intended for use in commercial crop production, commercial animal production, and/or commercial food processing.

- Registered material in the Washington State Department of Agriculture’s Organic Food Program (WSDA)
Active Ingredient – Citrus Oil (d-Limonene)

- d-Limonene is found naturally in citrus fruits and more than 300 fruits, vegetable, herbs and spices
- How is d-Limonene produced?
  - When the juice is squeezed from citrus fruit (oranges, lemons, limes) an oily film remains on top, this oil is primarily composed of d-Limonene
- d-Limonene is an excellent degreasing agent and is commonly used in soaps, foods, lotions, mouthwash and perfumes
- The U.S. Food and Drug Administration (FDA) classifies d-Limonene as Generally Recognized As Safe (GRAS) for certain uses
- d-Limonene is considered to have little to no toxicity
- The Environmental Protection Agency (EPA) states that “d-Limonene is practically non-toxic to birds, fish and mammals and is highly biodegradable.”
OMRI Certification

OMRI Listed®

The following product is OMRI Listed. It may be used in certified organic production or food processing and handling according to the USDA National Organic Program Rule.

Product
Avenger AG Burndown Herbicide

Company
Cutting Edge Formulations, Inc.
Mr Justin Jankauskas
3057 Summer Oak Place
Buford, GA 30518

Status
Allowed with Restrictions

Category
NOP: Limonene

Issue date
22-Sep-08

Product number
cef-1286

Class
Crop Pest, Weed, and Disease Control

Expiration date
01-Jun-2015

Restrictions
For use as a pest lure, repellant, or as part of a trap, or as a disease control. May be used for other pesticidal purposes, including use as an insecticide, if the requirements of 205.206(c)(c) are met, which requires the use of preventative, mechanical, physical, and other pest, weed, and disease management practices.

Executive Director
Peggy Miers

Organic Materials Review Institute
P.O. Box 11559, Eugene, OR 97440-3758, USA
541.343.7690 - fax 541.343.8971 - info@omri.org - www.omri.org

Cutting Edge Formulations, Inc.
WSDA Certification

Washington State
Department of Agriculture
MATERIAL REGISTRATION
CERTIFICATE

Issued to:
Cutting Edge Formulations, Inc.
1203 Hartford Ave.
Saint Paul MN 55116

The products listed below have been verified to comply with the USDA National Organic Standards (7 CFR Part 205):

<table>
<thead>
<tr>
<th>#</th>
<th>Product Name</th>
<th>Sub-Type</th>
<th>Type*</th>
<th>Annotations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1471</td>
<td>Avenger AG Burndban Herbicide</td>
<td>Herbicide</td>
<td>D PC</td>
<td>Label Use Only</td>
</tr>
</tbody>
</table>

*Types: CIP - Crop Protection Aid, D - PC - Disease Pest Control, F - SA - Fertilizer Soil Amendment,
LPA - Livestock Production Aid, P - H - Processing Handling

WSDA Registered Company #: 381
Issue Date: Monday, January 14, 2013
Registration valid through October 31, 2013

Brenda Boek
Organic Program Manager
DEPARTMENT OF AGRICULTURE
AGR 2291 (R8/11)
AvengerAG® Burndown Herbicide   
Field Study Trials
AvengerAG® Burndown Herbicide Field Trial, Yuba City, CA
Organic Walnut Orchard, Applied Jan 12, 2007

Days After Treatment
Weeds included mustard, chickweed, thistle, filaree, moss, wild barley, wild oat, others
AvengerAG® Burndown Herbicide Field Trial

Organic Herbicide Trial, UC Davis, Davis, CA
Applied Dec 20, 2006

Days After Treatment
Weed: Florida field mustard (Brassica juncea) 2-3 leaf stage,
AvengerAG® and Acetic acid at 70 gpa, Matran at 35 gpa
AvengerAG® Burndown Herbicide Field Trial

Organic Herbicide Trial, UCDavis, Davis, CA
Applied Jan 19, 2007

Days after treatment
Weed: Florida field mustard (Brassica juncea) 4-5 leaf stage
AvengerAG® Burndown Herbicide
2008 Livingston, CA Trial

DAYS AFTER TREATMENT

% Weed Control

3 Days  7 Days  15 Days  20 Days  28 Days

DAYS AFTER TREATMENT

*Weed species: Annual Bluegrass, Dandelion, Clover, Crabgrass, Bermuda Grass, Sow Thistle, Bindweed, Johnson Grass, Shepherds Purse, Little Mallow
AvengerAG® Burndown Herbicide
2008 Livingston, CA Trial
14% @ 60 GPA + NuFilm-P @ 1%

% Weed Control

<table>
<thead>
<tr>
<th>DAYS AFTER TREATMENT</th>
<th>3 Days</th>
<th>7 Days</th>
<th>15 Days</th>
<th>20 Days</th>
<th>28 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>90</td>
<td>80</td>
</tr>
</tbody>
</table>

*Weed species: Annual Bluegrass, Dandelion, Clover, Crabgrass, Bermuda grass, Sow Thistle, Bindweed, Johnson grass, Shepherd's Purse, Little Mallow
AvengerAG® Burndown Herbicide Comparison

<table>
<thead>
<tr>
<th>Untreated</th>
<th>Post Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Untreated Image]</td>
<td>![Post Treatment Image]</td>
</tr>
</tbody>
</table>

Cutting Edge Formulations, Inc.
AvengerAG® Burndown Herbicide Comparison
Camarillo, CA - Bindweed

<table>
<thead>
<tr>
<th>Untreated</th>
<th>AvengerAG® -- 14 DAT, 14% dil. 60 GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Untreated Image]</td>
<td>![Treated Image]</td>
</tr>
</tbody>
</table>

Days After Treatment (DAT) • Gallons Per Acre (GPA)
AvengerAG® Burndown Herbicide Comparison
Camarillo, CA - Bindweed

<table>
<thead>
<tr>
<th>Untreated</th>
<th>AvengerAG®-- 1.5 hours after application 14% dil. 60 GPA</th>
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</thead>
<tbody>
<tr>
<td><img src="image1" alt="Untreated image" /></td>
<td><img src="image2" alt="AvengerAG® image" /></td>
</tr>
</tbody>
</table>
AvengerAG® Burndown Herbicide
Bindweed - 7 Days After Treatment (DAT)
AvengerAG® Burndown Herbicide Comparison
Yakima, WA - Bindweed

AvengerAG® -- 14 DAT, 14% dil. 60 GPA

AvengerAG® -- 7 DAT, 14% dil. 60 GPA
AvengerAG® Burndown Herbicide

Application of AvengerAG® Burndown Herbicide over organic potatoes
Michigan: Application date – June 2010

<table>
<thead>
<tr>
<th>Treatment rate/A</th>
<th>Common Lambsquarter (% Control)</th>
<th>Redroot Pigweed (% Control)</th>
<th>Velvetleaf (% Control)</th>
<th>Quackgrass (% Control)</th>
<th>Potato (% Plant Damage)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DAP&lt;sup&gt;z&lt;/sup&gt; DAP&lt;sup&gt;y&lt;/sup&gt; DAP&lt;sup&gt;y&lt;/sup&gt;</td>
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<td>DAP&lt;sup&gt;y&lt;/sup&gt; DAP&lt;sup&gt;y&lt;/sup&gt;</td>
</tr>
<tr>
<td>AvengerAG®</td>
<td>96&lt;sup&gt;<em>x&lt;/sup&gt; 59&lt;sup&gt;</em>&lt;/sup&gt; 26&lt;sup&gt;*&lt;/sup&gt;</td>
<td>98&lt;sup&gt;<em>&lt;/sup&gt; 61&lt;sup&gt;</em>&lt;/sup&gt; 36&lt;sup&gt;*&lt;/sup&gt;</td>
<td>98&lt;sup&gt;<em>&lt;/sup&gt; 58&lt;sup&gt;</em>&lt;/sup&gt; 40&lt;sup&gt;*&lt;/sup&gt;</td>
<td>82&lt;sup&gt;*&lt;/sup&gt; 3 3</td>
<td>78&lt;sup&gt;*&lt;/sup&gt; 0</td>
</tr>
<tr>
<td>Untreated</td>
<td>4.8 5.5 6.3</td>
<td>6.3 6.0 7.0</td>
<td>7.0 6.5 6.0</td>
<td>4.8 6.0 6.0</td>
<td>0 0</td>
</tr>
<tr>
<td>LSD&lt;sub&gt;0.05&lt;/sub&gt;</td>
<td>10.3 9.1 10.9</td>
<td>5.8 10.8 14.4</td>
<td>9.1 12.1 13.2</td>
<td>4.6 9.4 7.8</td>
<td>4.8 0.0</td>
</tr>
</tbody>
</table>

<sup>z</sup> DAP = days after planting.
<sup>y</sup> Application dates: 10 Jun in 60 gal water/A.
<sup>x</sup> Values followed by the “*” are significantly different at p = 0.05 from the untreated control (Fishers Least Significant Difference).
<sup>w</sup> Mean weed populations per 1 ft<sup>2</sup> estimated from four sample evaluations per plot; NB: % Damage is not a plant population number.
# AvengerAG® Burndown Herbicide

Application of AvengerAG® to weeds 3 inches in height on fallow ground

Pacific Ag Research – 2009/2010
Control after 7, 14, 21 and 28 days

## *Medicago polymorpha*

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<th>Treatment</th>
<th>7 days</th>
<th>14 days</th>
<th>21 days</th>
<th>28 days</th>
</tr>
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<tbody>
<tr>
<td>AvengerAG® 14%</td>
<td>6.75</td>
<td>8.25</td>
<td>9.5</td>
<td>10</td>
</tr>
<tr>
<td>AvengerAG® 17%</td>
<td>9</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>AvengerAG® 20%</td>
<td>9</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

\( Z \) DAA = days after application in 60 GPA. A total of 10 species tested at 3 and 6 inch heights. 0-10 scale with 10 equal to 100% control.
AvengerAG® Burndown Herbicide

Application of AvengerAG® to weeds 3 inches in height on fallow ground

Pacific Ag Research – 2009/2010

Control after 7, 14, 21 and 28 days

*Plantago lanceolata*

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<thead>
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<th>Treatment</th>
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<td>10</td>
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**AvengerAG® Burndown Herbicide**

Application of AvengerAG® to weeds 3 inches in height on fallow ground

Pacific Ag Research – 2009/2010

Control after 7, 14, 21 and 28 days

### Stellaria media

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<th>Treatment</th>
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<td>9</td>
</tr>
<tr>
<td>AvengerAG® 20%</td>
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<td>9.75</td>
</tr>
</tbody>
</table>

\(^2\) DAA = days after application in 60 GPA. A total of 10 species tested at 3 and 6 inch heights.

0-10 scale with 10 equal to 100% control.
AvengerAG® Burndown Herbicide

Application of AvengerAG® to weeds 3 inches in height on fallow ground
Pacific Ag Research – 2009/2010

Control after 7, 14, 21 and 28 days

*Conyza bonarie*

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DAA = days after application in 60 GPA. A total of 10 species tested at 3 and 6 inch heights. 0-10 scale with 10 equal to 100% control.
**AvengerAG® Burndown Herbicide**

**General Directions for Use**

*For best performance, complete coverage of target weeds is necessary.* The product does not translocate. It will affect only those portions of plants that are coated with the spray solution. **Spray until thoroughly wet.**

- Use a 14% solution in 60 GPA (gal/acre) or greater
- Because the underside of the weed leaf may be more susceptible, side sprays are recommended
- Do not apply this product through any type of irrigation system or by aerial application

**Environmental Conditions:**
Cool weather may slow the activity of AvengerAG® Burndown Herbicide.

*For best results:* Spray when ambient high temperatures are expected above 50ºF and lows above freezing. On cooler days, spray during the warmest part of the day.
AvengerAG® Burndown Herbicide
Mixing Ratios & Application

Sprayer Mixing Ratio for AvengerAG® Burndown Herbicide:
• Fill the spray tank 1/2 full with clean water
• Add AvengerAG® while agitating
• Fill remainder with water

Tank Mixing Ratio for AvengerAG® Burndown Herbicide:
• Fill the spray tank 1/2 full with clean water
• Add any dry formulations to the tank
• Add liquid formulations to the tank
• Add AvengerAG® while agitating
• Fill remainder with water

Tank Mix Combinations:
Used in combination with any other products, refer to the respective product labels for rates and methods of application, proper timing, restrictions and precautions.

Compatibility Testing:
If the compatibility with another product is not known, a jar test or physical compatibility study should be conducted before tank mixtures are made.
AvengerAG® Burndown Herbicide
Directions for Use – Broadcast Applications

Broadcast Applications

Apply AvengerAG® Burndown Herbicide at a ratio of 1 part AvengerAG® Burndown Herbicide into 6 parts of water (see Table 1).

<table>
<thead>
<tr>
<th>Final Spray Volume</th>
<th>Amount of AvengerAG® Burndown Herbicide 1:6 ratio (14% dilution rate)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Gal</td>
<td>26 Fl oz</td>
</tr>
<tr>
<td>60 Gal</td>
<td>8 ½ Gal</td>
</tr>
<tr>
<td>100 Gal</td>
<td>14 Gal</td>
</tr>
</tbody>
</table>

*Percent Avenger® AG Burndown Herbicide in water. (Equivalent to 8% d-limonene active ingredient in water.)

A minimum spray volume of 60 gallons per acre is recommended. Spray until thoroughly wet. Do not exceed 8 1/2 gallons of AvengerAG® Burndown Herbicide per acre per application.
AvengerAG® Burndown Herbicide
Directions for Use – Spot Applications

**Spot Applications** (Spot Treatments)
In cool situations or for tough to kill weeds, a more concentrated spray may be needed. In such situations, spot treatments with a 20% dilution rate of AvengerAG® Burndown Herbicide, a ratio of 1 part AvengerAG® Burndown Herbicide into 4 parts of water may be used up to one (1) week before harvest (see Table 2). Do not exceed 8½ gallons of AvengerAG® Burndown Herbicide per acre per application.

<table>
<thead>
<tr>
<th>Final Spray Volume</th>
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<tr>
<td>1 Gal</td>
<td>26 Fl oz</td>
</tr>
<tr>
<td>60 Gal</td>
<td>12 Gal</td>
</tr>
<tr>
<td>100 Gal</td>
<td>20 Gal</td>
</tr>
</tbody>
</table>

*Percent AvengerAG Burndown Herbicide in water. (Equivalent to 11% d-limonene active ingredient in water.)
AvengerAG® Burndown Herbicide

Directions for Use - for Minimizing Spray Drift

Directions for Minimizing Spray Drift:
Spray directly on weeds (or apply with hooded spray equipment is recommended to prevent the spray from contacting crop.) Use equipment to direct spray on to the weeds. Do not use mist blowers or any other application techniques which may result in drift on to desirable vegetation. Do not allow spray solution to drip, splash or drift on to desirable vegetation; small amounts can cause severe damage to crops. Use low drift, low pressure nozzles.

These procedures will also reduce the potential for off-target drift and crop injury:

- Spray hoods must be operated on the ground or skimming across ground surface
- Operate at ground speeds of no greater than 5 miles per hour to avoid bouncing of the spray hoods
- Apply when wind speeds are 10 miles per hour or less
# AvengerAG® Burndown Herbicide

## Directions for Use – Various Crops & Treatments

<table>
<thead>
<tr>
<th>Crop</th>
<th>Broadcast Treatment Instructions</th>
<th>Spot Treatment Instructions</th>
<th>Precautions and other Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bearing Tree, Vine and Berry Crops:</strong></td>
<td>Apply at a 14% dilution rate of AvengerAG, a ratio of 1 part AvengerAG into 6 parts of water (see Table 1) <strong>up to first fruit set.</strong> Do not exceed 8 1/2 gallons of AvengerAG per acre per application. A minimum spray volume of 60 gallons per acre is recommended.</td>
<td>In cool situations or for tough to kill weeds, a more concentrated spray may be needed. In such situations, spot treatments with a 20% dilution rate of AvengerAG, a ratio of 1 part AvengerAG into 4 parts of water may be used up to one (1) week before harvest (see Table 2). Do not exceed 8 1/2 gallons of AvengerAG per acre per application.</td>
<td>Do not apply this product through any type of irrigation system or by aerial application. Spray until weeds are thoroughly wet. Follow directions for Minimizing Spray drift. Avoid contact of herbicide solution, spray drift or mist with foliage, green bark of trunk or branches, fruit or other parts of trees, canes and vines.</td>
</tr>
<tr>
<td>Berries</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Citrus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grapes (wine, table, raisin)</td>
<td></td>
<td></td>
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<tr>
<td>Nuts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pome Fruit</td>
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<td></td>
<td></td>
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<tr>
<td>Stone Fruit</td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Non-Bearing Tree, Vine and Berry Crops:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Berries</td>
<td></td>
<td></td>
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<tr>
<td><strong>Vegetable Crops:</strong></td>
<td>Make pre-emergence or at planting applications of AvengerAG, or apply to burn down winter foliage; applications must be made before seedling emergence to avoid severe injury. Allow at least 2 days between application and transplanting. Apply at a 14% dilution rate of AvengerAG, a ratio of 1 part AvengerAG into 6 parts of water (see Table 1). Do not exceed 8 1/2 gallons of AvengerAG per acre per application. A minimum spray volume of 60 gallons per acre is recommended.</td>
<td>In cool situations or for tough to kill weeds, a more concentrated spray may be needed. In such situations, spot treatments with a 20% dilution rate of AvengerAG, a ratio of 1 part AvengerAG into 4 parts of water may be used (see Table 2). Do not exceed 8 1/2 gallons of AvengerAG per acre per application.</td>
<td>Do not apply this product through any type of irrigation system or by aerial application. Spray until weeds are thoroughly wet. Follow directions for Minimizing Spray drift. Avoid contact of herbicide solution, spray drift or mist with foliage, green bark of trunk or branches, fruit or other parts of trees, canes and vines.</td>
</tr>
<tr>
<td>Brassica (cole)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Vegetables</td>
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<td></td>
</tr>
<tr>
<td>Fruiting Vegetables</td>
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<td></td>
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<tr>
<td>Leafy Vegetables</td>
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</tr>
<tr>
<td>Legume Vegetables</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Root and Tuber Vegetables</td>
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<td></td>
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</tbody>
</table>
# AvengerAG® Burndown Herbicide

## Directions for Use – Various Crops & Treatments

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<tbody>
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<td><strong>Herbs and Spices:</strong></td>
<td>Make pre-emergence or at planting applications of AvengerAG, or apply to burn down winter foliage; applications must be made before seedling emergence to avoid severe injury. Allow at least 2 days between application and transplanting. Apply at a 14% dilution rate of AvengerAG, a ratio of 1 part AvengerAG into 6 parts of water (see Table 1). Do not exceed 8 1/2 gallons of AvengerAG per acre per application. A minimum spray volume of 60 gallons per acre is recommended.</td>
<td>In cool situations or for tough to kill weeds, a more concentrated spray may be needed. In such situations, spot treatments with a 20% dilution rate of AvengerAG, a ratio of 1 part AvengerAG into 4 parts of water may be used (see Table 2). Do not exceed 8 1/2 gallons of AvengerAG per acre per application.</td>
<td>Do not apply this product through any type of irrigation system or by aerial application. Spray until weeds are thoroughly wet. Follow directions for Minimizing Spray drift. Avoid contact of herbicide solution, spray drift or mist with foliage.</td>
</tr>
<tr>
<td><strong>Non-Crop Areas:</strong></td>
<td>Apply at a 14% dilution rate of AvengerAG, a ratio of 1 part AvengerAG into 6 parts of water (see Table 1). Do not exceed 8 1/2 gallons of AvengerAG per acre per application. A minimum spray volume of 60 gallons per acre is recommended.</td>
<td>In cool situations or for tough to kill weeds, a more concentrated spray may be needed. In such situations, spot treatments with a 20% dilution rate of AvengerAG, a ratio of 1 part AvengerAG into 4 parts of water may be used (see Table 2). Do not exceed 8 1/2 gallons of AvengerAG per acre per application.</td>
<td>Do not apply this product through any type of irrigation system or by aerial application. Spray until weeds are thoroughly wet. Follow directions for Minimizing Spray drift. Avoid contact of herbicide solution, spray drift or mist with foliage, green bark of trunk or branches, fruit or other parts of trees, canes and vines.</td>
</tr>
</tbody>
</table>
AvengerAG® Burndown Herbicide is available in:

- 1 Gallon Concentrate
- 5 Gallon Concentrate
- 55 Gallon Drum Concentrate