AVENGER AG
OPTIMA
BURNDOWN HERBICIDE

For Control of Grasses and Broadleaf Weeds (both Annual and Perennial) In Crop and Non-Crop Areas

FOR ORGANIC PRODUCTION

OMRI Listed
Organic Materials Review Institute

ACTIVE INGREDIENT: d-limonene .................. 55%
INERT INGREDIENTS: .................................. 45%
Total ................................................... 100%

*1.07 lbs d-limonene per gallon

KEEP OUT OF REACH OF CHILDREN
CAUTION

Net Contents: 2.5 Gallons

Manufactured by:
Cutting Edge Formulations, Inc.
3057 Summer Oak Place,
Buford, GA 30518

EPA Reg. No. 82052-4
EPA Est. No. 82052-GA-1

GROUP Z HERBICIDE
PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

FIRST AID
If on Skin or Clothing:
• Take off contaminated clothing.
• Rinse skin with plenty of water for 15-20 minutes.
• Wash exposed area with soap and water. If irritation persists, seek medical attention.

If in Eyes:
• Hold eyes open and rinse slowly and gently with water for 15-20 minutes.
• Remove contact lens, if present, after the first 5 minutes. Then continue rinsing eyes.

Call a poison control center or doctor for treatment advice.

Have the container or label with you when calling a poison control center or seeking for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-1111 seven days a week, 9 am to 5 pm Pacific Time. During other times, call your poison control center at 1-800-222-1222.

Personal Protective Equipment (PPE): Application and other handlers must wear:
• Long sleeved shirt and pants
• Shoes plus socks
• Protective eyewear
• Waterproof gloves

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations
• Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
• Remove discontinue if product gets eyes. Then wash thoroughly and put on new clothing.

Physiological and Chemical Hazards

Environmental Hazards

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product until you understand the entire label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only properly trained handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribe 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 190). This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouse, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also applies 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 4 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: Long sleeved shirt and pants, Shoes plus socks, Protective eyewear, Waterproof gloves.

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 190). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Keep children and pets out of the treated areas until sprays have dried.

Product Information: Agent Optima is a broad spectrum weed killer that contains a citrus extract. It is non-selective and controls most annual and perennial weeds, both grasses and broadleaves. 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 uniform thoroughly well.

Weed size influences product efficacy as performance is improved on smaller weeds. Targeted weeds should be six inches in height or less.

Environmental Conditions: Agent Optima is effective over a wide range of environmental conditions. Cool weather may slow the activity of Agent Optima. For best results, spray when ambient temperatures are above 50°F and laws above freezing. On cooler days, spray during the warm part of the day. Allow heavy dew to evaporate prior to Agent Optima applications. Do not apply if windy conditions exist or rain is expected within 2 hours.

Mixing of Agent Optima: Fill the spray tank 1/3 full with clean water. Add Agent Optima while agitating. Then fill remainder with water.

Tank Mixing of Agent Optima: Fill the spray tank 1/3 full with clean water. Add any dry formulations and then liquid formulations to the tank. Add Agent Optima while agitating. Then fill remainder with water.

Tank Mix Combinations: When Agent Optima is used in combination with any other products, refer to the respective product labels for rates and mixtures or the applicable restrictions and follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

compatibility testing: If the compatibility with another product is not known, a 1:1 test or physical compatibility study should be conducted before tank mixtures are made with water. Mix with agitation and then let stand for 5 minutes. Add the correct amounts of other products, bringing the total volume to 1 gallon. Combinations that do not precipitate and can be readily remixed, then all products are compatible.

Restrictions

Do not exceed 5 gallons of Agent Optima (20.4 lb. of 4-longs) per acre per application. On NOT exceed a total of 16 gals Agent Optima (55.1 lbs of 4-longs) per Table 1) per acre per year. Determine the final desired finished volume according to the appropriate dilution as described in Table 1.

Irrigation and Aerial Applications: Do not apply this product through any type of irrigation system or by aerial application.

Spray Drift Management: Follow directions for minimizing spray drift. Do not apply the herbicide solution to contact desirable vegetation as small amounts can cause damage to crops and other desirable plants.

Avoid CONTACT WITH CROP - Intentional or accidental contact (including drift) of Agent Optima with the crop may result in severe damage or loss of the crop or yield.

Application Instructions and Rates

Mix this product in clean water and apply to the foliage of vegetation to be controlled. Spray until weeds are thoroughly wet. Because the underside of the weed leaf may be more susceptible, side sprays are recommended.

Four types of applications are described, Broadcast, Banded, Spot and Pre-harvest Destruction. Mixing volumes for two dilution rates are found in Table 1. Apply Agent Optima at a 7-10% mixture depending on the size of the weeds. For smaller, younger, actively growing weeds, apply the lower, 7% mixture. For larger, more mature weeds, apply the higher, 10% mixture. Use the lowest mixture whenever feasible to control weeds.

Broadcast Applications: Broadcast treatments are used for burn down of unwanted weeds across a field or plot or to apply to burn down winter foliage. Make application at pre-emergence or at planting of Agent Optima. Applications must be made before seedling emergence to avoid severe injury. Allow 10 days between application and transplanting. Spray until weeds are thoroughly wet.

Banded Applications: Control or Suppression of Emerged Weeds in Row Middles and Between Rows. Apply Agent Optima at a 7-10% mixture depending on the size of the weeds. Only use the 10% mixture when absolutely necessary to control difficult weeds. Apply by directing sprayer between the rows and using hoppers that do not use nozzles or nozzle configurations that produce fine droplets (mist).

Spot Applications: In cool conditions or for tough to kill weeds, a more concentrated spray of 4-longs may be needed. In such situations, a 10% mixture of Agent Optima (11.8 oz.) may be used up to one (1) week before harvest (see Table 1). Pre-harvest Destruction of Vegetables. Apply Agent Optima at 7% or 10% mixture to aid in the destruction of vegetable vines prior to harvest operations. A second application may be necessary to obtain sufficient destruction.

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Table 1. Mixing direction of Agent Optima

<table>
<thead>
<tr>
<th>Desired spray volume (gallons)</th>
<th>7%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9.5 gal</td>
<td>13.8 gal</td>
</tr>
<tr>
<td>10</td>
<td>42 gal</td>
<td>65 gal</td>
</tr>
<tr>
<td>100</td>
<td>7 gal</td>
<td>10 gal</td>
</tr>
<tr>
<td>160</td>
<td>11.2 gal</td>
<td>16 gal</td>
</tr>
<tr>
<td>228</td>
<td>16 gal</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Directions for Minimizing Spray Drift:

Spray directly on weeds or apply with hooded spray equipment to prevent the spray from contacting crop. Use equipment to direct spray on to the weeds. Do not use this blowers or any other application technique that 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 for crop injury:
• Spray hoods must be operated on the ground or skimming across ground surface.
• Operate at ground speeds of no greater than 3 miles per hour to avoid bouncing of the spray hoods.
• Spray when wind speeds are 10 miles per hour or less.

Agent Optima is intended for non-selective weed control in and around all crops and noncrop areas.
For USE IN and AROUND ALL FOOD CROPS & NON-CROP AREAS

<table>
<thead>
<tr>
<th>Crop</th>
<th>Including:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing and Non-Bearing Tree, Vine and Berry Crops, Including:</td>
<td>Berries*</td>
</tr>
<tr>
<td></td>
<td>Citrus</td>
</tr>
<tr>
<td></td>
<td>Grapes</td>
</tr>
<tr>
<td></td>
<td>(wine, table, raisin)</td>
</tr>
<tr>
<td></td>
<td>Nuts</td>
</tr>
<tr>
<td></td>
<td>Olives</td>
</tr>
<tr>
<td></td>
<td>Pomegranate</td>
</tr>
<tr>
<td></td>
<td>Stone Fruit</td>
</tr>
<tr>
<td>Vegetable Crops Including:</td>
<td>Ailoshakes</td>
</tr>
<tr>
<td></td>
<td>Asparagus</td>
</tr>
<tr>
<td></td>
<td>Brassica (cole)</td>
</tr>
<tr>
<td></td>
<td>Bulb Vegetables</td>
</tr>
<tr>
<td></td>
<td>Cruciferous</td>
</tr>
<tr>
<td></td>
<td>Fruiting Vegetables, including: tomato and pepper</td>
</tr>
<tr>
<td></td>
<td>Leafy Vegetables</td>
</tr>
<tr>
<td></td>
<td>Legume Vegetables</td>
</tr>
<tr>
<td></td>
<td>Root and Tubers Vegetables</td>
</tr>
<tr>
<td></td>
<td>Strawberries</td>
</tr>
<tr>
<td>Herbs and Spices:</td>
<td>All</td>
</tr>
<tr>
<td>Non-Crop Areas:</td>
<td>including borders, driveways, roadways, sidewalks, around natural landscaping, trees, shrubs, foliage and ornaments, around buildings, in greenhouses and nurseries, and around lawns.</td>
</tr>
</tbody>
</table>

*Not for use in California on berries of any kind.

STORAGE AND DISPOSAL:
Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Store at room temperature. Redoose container of unused portions of Avenger AG Optima.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING:
Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinance. If burned, stay out of smoke.

Conditions of Sale and Warranty:
The Directions For Use of this product reflects the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherent with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result, because of factors such as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of Cutting Edge Formulations or the Seller. All such risks are assumed by the Buyer.

To the extent consistent with applicable law, Cutting Edge Formulations warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use, subject to the inherent risks, referred to above. To the extent consistent with applicable law, Cutting Edge Formulations makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. To the extent consistent with applicable law, Cutting Edge Formulations or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, Cutting Edge Formulations and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of Cutting Edge Formulations.

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KEEP OUT OF REACH OF CHILDREN
CAUTION

Net Contents: 2.5 Gallons

OMRI-1235-1
EPA Reg. No. 82032-4
EPA Est. No. 82032-GA-1
Manufactured by:
Cutting Edge Formulations, Inc.
3051 Summer Oak Place
Bunford, CA 90518