



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 3, 2015

Susan MacIntosh
Regulatory Agent
Cutting Edge Formulations, Inc.
3057 Summer Oak Place
Buford, GA 30518

Subject: Label Notification per PRN 98-10 – Adding 2 Qt package size
Product Name: Avenger Weed Killer Concentrate
EPA Registration Number: 82052-1
Application Date: January 16, 2015
Decision Number: 499644

Dear Ms. MacIntosh:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

If you have any questions, you may contact Shanta Adeeb at 703-347-0502 or via email at adeeb.shanta@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Mindy Ondish".

Mindy Ondish
Acting Product Manager 25
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

MASTER LABEL:

GROUP	NC	HERBICIDE
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**AVENGER
WEED KILLER CONCENTRATE**

WITH the ALTERNATIVE BRAND NAME:

**MOSS AVENGER
CONCENTRATE
Moss & Algae* Control**

ACTIVE INGREDIENT: d-limonene (citrus oil).....	70%
OTHER INGREDIENTS.....	30%
TOTAL	100%

SUBLABEL A: Residential and Garden Use

SUBLABEL B: Commercial Use

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Net Contents: 1, 2 Qt, 1, 2.5, 5, 55 Gal

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

Manufactured by: Cutting Edge Formulations, Inc.
3057 Summer Oak Place, Buford, Georgia 30518
(866) 906-9333

* *Not for use on algae in California*

NOTIFICATION

82052-1

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

03/03/2015

SUBLABEL A: Residential and Garden Use

GROUP	Z	HERBICIDE
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**AVENGER
WEED KILLER CONCENTRATE**

ACTIVE INGREDIENT: d-limonene (citrus oil).....	70%
OTHER INGREDIENTS.....	30%
TOTAL	100%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See back (panel)(page) for additional Precautionary Statements and First Aid



FOR ORGANIC GARDENING [or]



FOR ORGANIC PRODUCTION



[Placeholder for OMRI Logo:]

[Front panel: optional marketing claims may be used on any panel]

[Optional marketing claims for Herbicide use:]

- *Non-Selective: Controls most annual weeds, grasses & broadleaves*
- *Kills most annual weeds, grasses & broadleaves*
- *For Use on Borders Around Patios, Driveways and Sidewalks*
- *For Use on Borders Around Driveways, Patios and Sidewalks, Around Mature Trees and Ornamentals, Around Buildings, In Residential Greenhouses, Fencerows and Around Flower Beds*
- *Fast Acting*
- *Made from Oranges*
- *Contains Citrus Oil*
- *Clean Citrus Scent*
- *Does not stain brick, concrete or pavement*
- *Weed Eliminator*
- *Weed Killer*
- *Spray weeds until thoroughly wet*
- *Spray must appear white on weed*
- *For Outdoor Use around the Home*
- *Quick Visible Results*
- *Makes up to ___ gallons*

- *Made in the USA or depiction of USA flag*
- *Satisfaction guaranteed or your money back*

[Optional marketing claims for Moss & Algae use:]

- *Effectively eliminates moss on lawns, roofs, decks, driveways, walkways, fences*
- *Kills moss and algae quickly - quick visible results*
- *Fast acting – see results in hours*
- *Contains citrus oil - made from oranges*
- *Clean citrus scent*
- *Non-staining formula - does not stain concrete, pavement, stucco or wood*
- *Moss and Algae Killer*
- *Exclusive formula*
- *New and Improved*
- *Can be used at low temperatures*
- *Can be used around border plants when used as directed*
- *Gets rid of damaging moss and algae*
- *Moss and Algae Control can be used on lawns and around border plants*
- *For outdoor use around the home - can be used on lawns*
- *Moss and Algae Control can be used in early spring at the first sign of moss growth*
- *Does not contain any metal salts, such as iron or zinc.*
- *No unpleasant odor.*
- *Moss Avenger Concentrate will not damage painted and metal surfaces.*
- *Will (Does) not damage gutters, metal flashing or downspouts.*
- *Controlling moss and algae may add months or years of service to roofs, patios, decks, and such areas.*
- *Kills moss to prolong life of roofs, decks, patios and walks.*
- *Kills moss so grass can grow thicker and richer.*
- *Can be used to spot treat problem areas in lawns or gardens.*

[Label may include graphic representation consistent with labeled product use: e.g., “before” and “after” illustrations of use on moss.]

Net Contents: _____

EPA Reg. No. 82052-1

EPA Est. No. 82052-GA-1

Manufactured by: Cutting Edge Formulations, Inc.
3057 Summer Oak Place, Buford, Georgia 30518
(866) 906-9333

** Not for use on algae in California*

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:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in Eyes:	<ul style="list-style-type: none">• Hold eye 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 eye.• Call a poison control center or doctor for treatment advice.
HOT LINE 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 Pesticide Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time. During other times, call your poison control center at 1-800-222-1222.	

USER SAFETY RECOMMENDATIONS
User should: <ul style="list-style-type: none">• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.• Remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing.

PHYSICAL AND CHEMICAL HAZARDS: Combustible. Do not use or store near heat or open flame.

ENVIRONMENTAL HAZARDS:

[Commerical:] To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

[Residential:] Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

AVENGER WEED KILLER CONCENTRATE

DIRECTIONS FOR USE:

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not use this product until you have read the entire label. 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 requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Product Information: Avenger Weed Killer is a broad spectrum weed killer that contains d-limonene. D-limonene is the citrus oil that is extracted from the rind of oranges. It is non-selective and control most annual weeds, both grasses and broadleaves.

For best performance, complete coverage of target weeds is necessary. Spray until thoroughly wet. For use on non-crop areas, borders around driveways, patios and sidewalks, around mature trees and ornamentals, around buildings, in residential greenhouses, fencerows and around flower beds.

Avenger Weed Killer is fast acting with quick visible results. Foliar contact results in control of annual grasses and broadleaves and top growth reduction of deep rooted perennial weeds. Retreatment may be required for control of perennial weeds or older, hardier weeds.

Keep children and pets out of the treated area until sprays have dried.

Environmental Conditions: Avenger Weed Killer is effective over a wide range of environmental conditions. Cool weather will slow the activity of Avenger Weed Killer, but should not affect its performance.

Allow heavy dew to evaporate prior to Avenger Weed Killer applications. Do not apply if windy conditions exist or a strong threat of rain is expected within 2 hours. Do not allow the herbicide solution to contact desirable vegetation as small amounts can cause severe damage to crops and other desirable plants.

Mixing of Avenger Weed Killer Concentrate: Fill the spray tank ½ full with clean water. Add any other dry formulations then liquid formulations to the tank. Add Avenger weed Killer while agitating. Then fill remainder with water.

Tank Mix Combination: When this product is 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. Do not apply this product through any type of irrigation system.

Application Instructions

Mix this product in clean water and apply to the foliage of vegetation to be controlled. Spray until thoroughly wet. NOTE: All contacted vegetation is affected. Avoid contacting desirable plants. Overspray or drift will injure or kill contacted vegetation. Do not spray on lawns unless grass control is desired, because Avenger Weed Killer Concentrate will damage or kill treated grass using the concentrations described below in the Mixing Instructions.

Mixing Instructions		
To Control Small Annual Weed (weeds less than 6 inches tall)	Large Annuals and Most Perennials	Hard to Kill Weeds
Add 1 Quart of Concentrate to 7 quarts of water to make 2 gallons (8 quarts) of spray solution	Add 1 Quart of Concentrate to 5 quarts of water to make 1½ gallons (6 quarts) of spray solution	Add 1 Quart of Concentrate to 3 quarts of water to make 1 gallon (4 quarts) of spray solution

MOSS AVENGER CONCENTRATE

DIRECTIONS FOR USE:

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not use this product until you have read the entire label. 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 requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Product Information: Moss Avenger Concentrate controls moss and algae*. The product uses d-limonene, which is the citrus oil that is extracted from the rind of oranges. Moss Avenger Concentrate is fast acting with quick visible results. It begins working on contact.

Where to use it: Use this product to get rid of unwanted moss and algae* throughout your yard, including lawns, roofs, driveways, fences, decks, siding, steps, patios, and other outdoor surfaces constructed of composition shingles, wood, asphalt, concrete, tile, stone and plastic resins. Moss Avenger Concentrate may damage paint on newly painted surfaces.

Use Precautions: Moss Avenger Concentrate is effective over a wide range of environmental conditions. Cool weather will slow the activity of Moss Avenger Concentrate but should not affect its performance. Allow heavy dew to evaporate prior to Moss Avenger Concentrate applications. Test the spray in small area first to determine its suitability for use (check for possible undesirable effects after 24 hours.) Apply when moss and algae* are actively growing and preferably when daytime temperatures exceed 45°F for a period of three consecutive days prior to the day of application. Do not apply when temperatures exceed 75°F prior to the application or on the day of application. Freshly treated areas may be slippery. To avoid falling do not walk on freshly treated areas.

Higher concentrations of Moss Avenger Concentrate (10% and higher) will damage some plants. Avoid overspraying onto desirable plants to avoid plant injury that may be caused by contact with the spray. Should overspray occur, rinse affected plants with water immediately.

Keep children and pets out of the treated area until sprays have dried.

Mixing of Moss Avenger Concentrate: Fill the spray tank ½ full with clean water. Add any other dry formulations then liquid formulations to the tank. Add Moss Avenger Concentrate while agitating. Then fill remainder with water.

Tank Mix Combination: When this product is 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. Do not apply this product through any type of irrigation system.

Application Instructions

Spray Solution: Dilute the product by mixing one part Moss Avenger Concentrate with 50 parts water (2.56 oz. in 1 gallon water). Thoroughly soak moss with solution, applying 3.5 to 4 gallons per 1,000 sq. ft. (152 to 175) gallons/acre). For thick moss (> 1 in.), use up to 6 gallons per 1,000 sq. ft.

One Gallon of Moss Avenger Concentrate will treat 12,500 sq. ft. of regular moss and 8,333 sq. ft. of thick moss (> 1 in.).

Mixing Instructions			
Final Spray Volume	Amount of Moss Avenger Conc	This volume treats regular moss – number of sq. ft. (Acre)	This volume treats thick moss (> 1” thick) – number of sq. ft. (Acre)
1 gal	2.6 oz	250	167
4 gal	10.2 oz	1,000	668
6 gal	15.4 oz	1,500	1,000
10 gal	25.6 oz	2,500 (0.06)	1,667 (0.04)
50 gal	1 gal	12,500 (0.29)	8,333 (0.19)

METHODS OF APPLICATION: Apply with any standard hand-held sprayer, backpack sprayer, tank sprayer, mop, watering can or brush. Keep sprayer moving to get an even application. In areas of hard water, use water softeners.

Directions for Moss in Lawns and Turf: When spraying roofs it is best to spray "up-slope" to thoroughly treat the ends of the shingles. When spraying mossy area, be sure to soak the moss growth thoroughly. Treated moss will turn a light yellow to dark orange color. Action is most rapid in warm, humid weather. After 30 minutes, treated area can be sprayed lightly with water. To improve appearance of lawn or turf, rake out dead moss a few days after treatment.

Directions for Moss on Structures such as Roofs, Driveways, Fences, Decks, Siding, Steps, Patios, and Other Outdoor Surfaces constructed of Composition Shingles, Wood, Asphalt, Concrete, Brick, Tile, Stone and Plastic Resins: For best results apply when moss and algae* are actively growing. Apply mixed spray to thoroughly wet the area and soak the unwanted moss and algae*. For best results, leave spray on area for an hour. The treated area can be sprayed lightly with water after one hour. When spraying roofs it is best to spray "up-slope" to thoroughly treat the ends of the shingles.

* Not for use on algae in California

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool, dry place inaccessible to children and pets.

PESTICIDE DISPOSAL

To avoid waste, 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

[Plastic containers with capacities equal to or less than 5 gallons:] 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.

[Plastic containers with capacities greater than 5 gallons:] 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. Fill the container ¼ 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.

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 should be followed carefully. However, it is impossible to eliminate all risks inherently associated 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, in no case shall 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.

SUBLABEL B: Commercial Use

GROUP	Z	HERBICIDE
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AVENGER WEED KILLER CONCENTRATE

ACTIVE INGREDIENT: d-limonene (citrus oil).....	70%
OTHER INGREDIENTS.....	30%
TOTAL	100%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**



FOR ORGANIC GARDENING [or]



FOR ORGANIC PRODUCTION



[Placeholder for OMRI Logo:]

[Front panel: optional marketing claims may be used on any panel]

[Optional marketing claims for Herbicide use:]

- *Non-Selective: Controls most annual weeds, grasses & broadleaves*
- *Kills most annual weeds, grasses & broadleaves*
- *For Use on Borders Around Patios, Driveways and Sidewalks*
- *For Use on Borders Around Driveways, Patios and Sidewalks, Around Mature Trees and Ornamentals, Around Buildings, In Residential Greenhouses, Fencerows and Around Flower Beds*
- *Fast Acting*
- *Made from Oranges*
- *Contains Citrus Oil*
- *Clean Citrus Scent*
- *Does not stain brick, concrete or pavement*
- *Weed Eliminator*
- *Weed Killer*
- *Spray weeds until thoroughly wet*
- *Spray must appear white on weed*
- *For Outdoor Use around the Home*
- *Quick Visible Results*
- *Makes up to ___ gallons*
- *Made in the USA or depiction of USA flag*

- *Satisfaction guaranteed or your money back*

[Optional marketing claims for Moss & Algae use:]

- *Effectively eliminates moss on lawns, roofs, decks, driveways, walkways, fences*
- *Kills moss and algae quickly - quick visible results*
- *Fast acting – see results in hours*
- *Contains citrus oil - made from oranges*
- *Clean citrus scent*
- *Non-staining formula - does not stain concrete, pavement, stucco or wood*
- *Moss and Algae Killer*
- *Exclusive formula*
- *New and Improved*
- *Can be used at low temperatures*
- *Can be used around border plants when used as directed*
- *Gets rid of damaging moss and algae*
- *Moss and Algae Control can be used on lawns and around border plants*
- *For outdoor use around the home - can be used on lawns*
- *Moss and Algae Control can be used in early spring at the first sign of moss growth*
- *Does not contain any metal salts, such as iron or zinc.*
- *No unpleasant odor.*
- *Moss Avenger Concentrate will not damage painted and metal surfaces.*
- *Will (Does) not damage gutters, metal flashing or downspouts.*
- *Controlling moss and algae may add months or years of service to roofs, patios, decks, and such areas.*
- *Kills moss to prolong life of roofs, decks, patios and walks.*
- *Kills moss so grass can grow thicker and richer.*
- *Can be used to spot treat problem areas in lawns or gardens.*

[Label may include graphic representation consistent with labeled product use: e.g., “before” and “after” illustrations of use on moss.]

Net Contents: _____

EPA Reg. No. 82052-1

EPA Est. No. 82052-GA-1

Manufactured by: Cutting Edge Formulations, Inc.
3057 Summer Oak Place, Buford, Georgia 30518
(866) 906-9333

** Not for use on algae in California*

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:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in Eyes:	<ul style="list-style-type: none">• Hold eye 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 eye.• Call a poison control center or doctor for treatment advice.
HOT LINE 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 Pesticide Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time. During other times, call your poison control center at 1-800-222-1222.	

Personal Protective Equipment (PPE): Applications and other handlers must wear:

- Long sleeved shirt and pants
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning and 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
User should: <ul style="list-style-type: none">• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.• Remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing.

PHYSICAL AND CHEMICAL HAZARDS: Combustible. Do not use or store near heat or open flame.

ENVIRONMENTAL HAZARDS: To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not use this product until you have read the entire label. 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 requirement specific to your State or Tribe, consult the State or Tribal 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), notification to workers, and restricted-entry interval. The requirements in this box 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 4 hours.

EXCEPTIONS: The use sites below are not subject to WPS: Use by injection directly into agricultural plants. Direct injection does not include “hack and squirt”, “frill and spray”, “chemigation”, soil-incorporation, or soil injection.

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 long-sleeved shirt and pants
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical resistant gloves such as nitrile rubber, polyvinyl chloride (PVC) and Viton.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

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, forests, nurseries or greenhouses.

AVENGER WEED KILLER CONCENTRATE

Product Information:

Avenger Weed Killer is a broad spectrum weed killer that contains citrus extract called d-limonene. D-limonene is extracted from the rind of oranges. It is non-selective and control most annual weeds, both grasses and broadleaves.

Avenger Weed Killer is fast acting with quick visible results. For best performance, complete coverage of target weeds is necessary. Spray until thoroughly wet. For use on non-crop areas, borders around driveways, patios and sidewalks, around mature trees and ornamentals, around buildings, in residential greenhouses, fencerows and around flower beds.

Environmental Conditions: Avenger Weed Killer is effective over a wide range of environmental conditions. Cool weather will slow the activity of Avenger Weed Killer, but should not affect its performance.

Allow heavy dew to evaporate prior to Avenger Weed Killer applications. Do not apply if windy conditions exist or a strong threat of rain is expected within 2 hours.

Spray Drift Management: Do not allow the herbicide solution to contact desirable vegetation as small amounts can cause severe damage to crops and other desirable plants.

Mixing of Avenger Weed Killer Concentrate: Fill the spray tank $\frac{1}{2}$ full with clean water. Add any other dry formulations then liquid formulations to the tank. Add Avenger Weed Killer while agitating. Then fill remainder with water.

Tank Mix Combination: When this product is used in combination with any other products, refer to the respective product labels for rates and methods of application, proper timing, restrictions and precautions. The most restrictive precautions and restrictions must be followed.

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. Do not apply this product through any type of irrigation system.

Application Instructions

Mix this product in clean water and apply to the foliage of vegetation to be controlled. Spray until thoroughly wet. NOTE: All contacted vegetation is affected. Avoid contacting desirable plants. Overspray or drift will injure or kill contacted vegetation. Do not spray on lawns unless grass control is desired, because Avenger Weed Killer Concentrate will damage or kill treated grass using the concentrations described below in the Mixing Instructions.

Mixing Instructions		
To Control Small Annual Weed (weeds less than 6 inches tall)	Large Annuals and Most Perennials	Hard to Kill Weeds
Add 1 Quart of Concentrate to 7 quarts of water to make 2 gallons (8 quarts) of spray solution	Add 1 Quart of Concentrate to 5 quarts of water to make 1½ gallons (6 quarts) of spray solution	Add 1 Quart of Concentrate to 3 quarts of water to make 1 gallon (4 quarts) of spray solution

Small annual weeds: for control of annual weeds less than 6 inches tall, a 1:7 ratio of Avenger Weed Killer to water; dilute 1 part of Avenger Weed Killer in 7 parts of water.

Larger annual and most perennial weeds: for annual weeds above 6 inches tall, a 1:5 ratio of Avenger Weed Killer to water; dilute 1 part of Avenger Weed Killer in 5 parts of water.

Hard to control weeds: for harder to control weeds (for examples, weeds with thick cuticle such as ivy and hard to control perennials), use a 1:3 ratio of Avenger Weed Killer to water. Dilute 1 part of Avenger Weed Killer in 3 parts of water.

MOSS AVENGER CONCENTRATE

Product Information:

Moss Avenger Concentrate controls moss and algae*. The product uses d-limonene, which is the citrus oil that is extracted from the rind of oranges. Moss Avenger Concentrate is fast acting with quick visible results. It begins working on contact.

Where to use it: Use this product to get rid of unwanted moss and algae* throughout your yard, including lawns, roofs, driveways, fences, decks, siding, steps, patios, and other outdoor surfaces constructed of composition shingles, wood, asphalt, concrete, tile, stone and plastic resins. Moss Avenger Concentrate may damage paint on newly painted surfaces.

Use Precautions: Moss Avenger Concentrate is effective over a wide range of environmental conditions. Cool weather will slow the activity of Moss Avenger Concentrate but should not affect its performance. Allow heavy dew to evaporate prior to Moss Avenger Concentrate applications. Test the spray in small area first to determine its suitability for use (check for possible undesirable effects after 24 hours.) Apply when moss and algae* are actively growing and preferably when daytime temperatures exceed 45°F for a period of three consecutive days prior to the day of application. Do not apply when temperatures exceed 75°F prior to the application or on the day of application. Freshly treated areas may be slippery. To avoid falling do not walk on freshly treated areas.

16 Jan 2015

Higher concentrations of Moss Avenger Concentrate (10% and higher) may damage plants. Avoid overspraying onto desirable plants to avoid plant injury that may be caused by contact with the spray. Should overspray occur, rinse affected plants with water immediately.

Mixing of Moss Avenger Concentrate: Fill the spray tank ½ full with clean water. Add any other dry formulations then liquid formulations to the tank. Add Moss Avenger Concentrate while agitating. Then fill remainder with water.

Tank Mix Combination: When used in combination with any other products, refer to the respective product labels for rates and methods of application, proper timing, restrictions and precautions. The most restrictive precautions and restrictions must be followed.

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. Do not apply this product through any type of irrigation system.

Application Instructions

Spray Solution: Dilute product by mixing one part Moss Avenger Concentrate with 50 parts water (2.56 oz. in 1 gallon water). Thoroughly soak moss with solution, applying 3.5 to 4 gallons per 1000 sq. ft. (152 to 175) gallons/acre). For thick moss (> 1 in.), use up to 6 gallons per 1000 sq. ft.

One Gallon of Moss Avenger Concentrate will treat 12,500 sq. ft. of regular moss and 8,333 sq. ft. of thick moss (> 1 in.). Five Gallon of Moss Avenger Concentrate will treat 62,500 sq. ft. of regular moss and 41,666 sq. ft. of thick moss (> 1 in.).

Mixing Instructions			
Final Spray Volume	Amount of Moss Avenger Conc	This volume treats regular moss – number of sq. ft. (Acre)	This volume treats thick moss (> 1" thick) – number of sq. ft. (Acre)
1 gal	2.6 oz	250	167
4 gal	10.2 oz	1000	668
6 gal	15.4 oz	1,500	1,000
10 gal	25.6 oz	2,500 (0.06)	1,667 (0.04)
50 gal	1 gal	12,500 (0.29)	8,333 (0.19)
250 gal	5 gal	62,500 (1.43)	41,666 (0.96)

METHODS OF APPLICATION: Apply with any standard hand-held sprayer, backpack sprayer, tank sprayer, mop, watering can or brush. Keep sprayer moving to get an even application. In areas of hard water, use water softeners.

Directions for Moss in Lawns and Turf: For best results on lawns use the higher spray volumes and thoroughly soak moss. When spraying mossy area, be sure to soak the moss growth thoroughly. Treated moss will turn a light yellow to dark orange color. Action is most rapid in

16 Jan 2015

warm, humid weather. After 30 minutes, treated area can be sprayed lightly with water. To improve appearance of lawn or turf, rake out dead moss a few days after treatment.

Directions for Moss on Structures such as Roofs, Driveways, Fences, Decks, Siding, Steps, Patios, and Other Outdoor Surfaces constructed of Composition Shingles, Wood, Asphalt, Concrete, Brick, Tile, Stone and Plastic Resins: For best results apply when moss and algae* are actively growing. Apply mixed spray to thoroughly wet the area and soak the unwanted moss and algae*. For best results, leave spray on area for an hour. The treated area can be sprayed lightly with water after one hour. When spraying roofs it is best to spray "up-slope" to thoroughly treat the ends of the shingles.

* *Not for use on algae in California*

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool, dry place inaccessible to children and pets.

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

[Plastic containers with capacities equal to or less than 5 gallons:] 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.

[Plastic containers with capacities greater than 5 gallons:] 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. 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.

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 should be followed carefully. However, it is impossible to eliminate all risks inherently associated 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, in no case shall 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.