

81943-1

9-1-2005

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:
81943-1

Date of Issuance:
SEP 1 - 2005

Terms of Issuance:
Conditional

Name of Pesticide Product:
Current Aquatic
Herbicide

Name and Address of Registrant (include ZIP Code):

Phoenix Environmental Care, LLC
P.O. Box 307
Valdosta, GA 31603-307

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, this product is conditionally registered under the Federal Insecticide, Fungicide and Rodenticide Act as amended. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA Section 3(c)(7)(A) provided that you comply with the conditions of registration specified on page 2. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions

A copy of your label stamped "Accepted with comments" is included for your records.

Signature of Approving Official:

Date:

SEP 1 2005

Tony Kish, Acting Product Manager (22)
Registration Division, Fungicide Branch

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Conditions of Registration:

**Current Aquatic Herbicide
EPA Reg. No. 81943-1**

1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Section 4.
2. Submit one copy of the revised final printed label before releasing the product for shipment.

Enclosure

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CURRENT™ AQUATIC HERBICIDE

For use in Slow Moving or Quiescent Bodies of Water Including: Golf Course, Ornamental, Fish, and Fire Ponds; Fresh Water Lakes, Fish Hatcheries and Potable Water Reservoirs. Areas treated with Current may be used for fishing, swimming, drinking and watering livestock immediately after treatment.

ACTIVE INGREDIENT	
Copper sulfate pentahydrate	31.27%
INERT INGREDIENTS	68.73%
TOTAL	100.00%

0.8% elemental copper

One Gallon Contains 0.8 Pounds of Elemental Copper

KEEP OUT OF THE REACH OF CHILDREN CAUTION	
FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call toll free 1-888-875-1724.	
See Label for Additional Precautions and Directions for use.	

Phoenix Environmental Care, LLC
Valdosta, GA 31601

EPA Reg. No. 81943-1
EPA Est. No. _____

Net Contents: _____

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

SEP 1 2005

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.

81943-1

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid contact with skin and eyes. Wash thoroughly with soap and water after handling. Do not apply this product in a manner as to directly expose workers or other persons.

ENVIRONMENTAL HAZARDS

This product may be toxic to fish. Trout and other species of fish may be killed at application rates recommended on this label. Generally, fish toxicity is reduced as water hardness increases. Consult State Fish and Game Agency before applying this product to public waters. Do not allow spray to drift.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: ~~Store product in a cool, dry place and in original container only. Keep container closed when not in use.~~

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

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

GENERAL INFORMATION

Current provides effective control of Hydrilla (*Hydrilla verticillata*), Brazilian Elodea (*Egeria densa*), Southern/Northern Naiads (*Najas* sp.), Coontail (*Ceratophyllum demersum*), Common Elodea (*Elodea canadensis*), Water Lettuce (*Pistia stratiotes*) and Water Hyacinth (*Eichhornia crassipes*). Under certain water quality conditions, such as low water hardness, Current may also control Eurasian Watermilfoil (*Myriophyllum spicatum*), Sago Pondweed (*Potamogeton pectinatus*), and American Pondweed (*Potamogeton nodosus*). Current may be applied to slow moving or quiescent bodies of water including: potable water reservoirs and recreation lakes; golf course, ornamental, fish and fire ponds.

Current may be tank mixed with other herbicides, such as fluridone, diquat and endothall, for control of a broader weed spectrum (refer to the directions for use for specific directions). Observe all precautions and limitations on the labels of all products used with Current.

The effectiveness of Current is based upon its penetration into plant tissues; therefore, proper placement of the product is essential. When weeds are actively growing, apply Current to the area where the greatest concentration of foliage is located in a manner that will deposit the herbicide on leaf surfaces. The activity of Current may be reduced if silt or algae are present in the water or cover the weeds. If algae are present or covers the weeds, the effectiveness of Current may be improved by tank mixing with an algacide, such as Symmetry.

Current may be applied by aircraft, sprayer or spray boat as a surface spray, as a subsurface spray through weighted hoses, in an invert emulsion, or mixed with a polymer, as appropriate (see specific instructions and use chemicals cleared for application to growing crops). As a surface or subsurface application, Current may be applied diluted or undiluted, whichever is most suitable to ensure uniform coverage of the area to be treated.

Current requires a minimum of 12 to 24 hours of contact with the target weeds in order to provide effective control. If the treatment has been successful, the aquatic weeds will drop below the surface of the water within 3 to 7 days after treatment. If this effect is not observed, Current may be reapplied 10 to 14 days after the initial application. Once weeds drop below the surface, it can take up to 6 weeks to realize the full effect of the treatment.

Undiluted Current or concentrations above 1.0 ppm Cu⁺⁺ may be injurious to crops, grass, ornamentals and other foliage. Do not apply in such a way that the concentrated product comes in contact with crops, ornamentals, grass or desirable plants. Apply only as specified on this label.

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In areas heavily infested with aquatic weeds or if water temperature is high, treatment can result in oxygen loss from decomposition of dead vegetation, which can cause fish suffocation. To minimize this hazard, do not treat more than 1/2 of the water body in a single operation. Add only enough Current for the actual area being treated. Wait 10 to 14 days before treating the remaining area. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas.

WATER USE RESTRICTIONS

If treated water is a source of potable water, the residue of copper must not exceed 1 ppm.

Application Rates for Aquatic Weed Control in Quiescent or Slow Moving Water

Weed Pest	Copper Level Required For Control (ppm)*
<i>Hydrilla verticillata</i> (Hydrilla)	0.75 -1.0
Suppression of	
<i>Eichhornia crassipes</i> (Water Hyacinth)	0.75 -1.0
<i>Egeria densa</i> (Brazilian Elodea)	0.50 -0.75
<i>Najas</i> sp. (Southern/Northern Naiads)	0.50 -1.0
<i>Ceratophyllum demersum</i> (Coontail)	0.50 -1.0
<i>Elodea canadensis</i> (Common Elodea)	0.50 -1.0
<i>Myriophyllum spicatum</i> ** (Eurasian Watermilfoil)	0.75 -1.0
<i>Potamogeton pectinatus</i> ** (Sago Pondweed)	0.75 -1.0
<i>Potamogeton nodosus</i> ** (American Pondweed)	0.75 -1.0
<i>Pistia stratiotes</i> (Water Lettuce)	0.75 -1.0

* Use lower rate in light infestations and higher rate for heavier infestations.

** Control only in low water hardness

APPLICATION RATE CALCULATION

For large bodies of water, determine the size (in acres) and the average depth (in feet) of the area to be treated. Application rates are calculated by using the following formula to obtain the appropriate copper concentration:

Desired Concentration of Cu** (ppm) x Average Depth of Water (feet) X 3.34 = Gallons of Current per Surface Acre

To calculate the area and average depth of a lake or pond, use the following formulas. All measurements (length, width, radius, depth) should be in feet.

Area of a square or rectangle (ft²) = length x width

Area of a circle (ft²) = radius x radius x 3.14

Average Depth (ft) = sum of all depth measurements + number of measurements

The more measurements taken, the more accurate the average depth will be.

1 gallon = 4 quarts or 8 pints or 16 cups or 128 fluid ounces

1 quart = 2 pints or 4 cups or 32 fluid ounces

1 acre = 43,560 square feet

1 acre-foot = 43,560 cubic feet = 325,762 gallons = 2,720,000 pounds

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Average Water Depth of Treatment Site (feet)	Gallons of Current per Surface Acre to Achieve the Desired Copper Concentration		
	0.5 ppm	0.75 ppm	1.0 ppm
1	1.7	2.5	3.3
2	3.3	5.0	6.7
3	5.0	7.5	10.0
4	6.7	10.0	13.4
5	8.4	12.5	16.7
6	10.0	15.0	20.0
7	11.7	17.5	23.4
8	13.4	20.0	26.7
9	15.0	22.5	30.1
10	16.7	25.1	33.4

For smaller bodies of water, determine the size (in square feet) and the average depth (in feet) of the area to be treated.

Average Water Depth of Treatment Site (feet)	Fluid Ounces of Current per 1,000 Square Feet to Achieve the Desired Copper Concentration		
	0.5 ppm	0.75 ppm	1.0 ppm
1	5.0	7.5	10.0
2	10.0	15.0	20.0
3	15.0	22.5	30.0
4	20.0	30.0	40.0
5	25.0	37.5	50.0
6	30.0	45.0	60.0
7	35.0	52.5	70.0
8	40.0	60.0	80.0
9	45.0	67.5	90.0
10	50.0	75.0	100.0

METHODS OF APPLICATION

SPRAY BOAT

Surface Application: Surface applications may be made near shorelines or in shallow water (4 feet or less).

Subsurface Application: In deep water (4 feet or more), make a subsurface application of Current at recommended rates through weighted trailing hoses where the greatest concentration of foliage exists, and where deposit on leaf surfaces will be assured. Do not drag hoses on the bottom.

Invert Application: Current will invert easily using either tank mix or bi-fluid mixer techniques. Invert applications should be made through weighted hoses dragged below the surface of the water. The invert emulsion will form tiny droplets which will adhere to the submerged vegetation and release the herbicide in close proximity to the plant. Do not drag hoses on the bottom.

The emulsifier should release Current at a rate fast enough to be quickly absorbed by the plant tissue but not so fast that it can be washed away from the treatment area. The invert emulsion should have a heavy viscous consistency much like mayonnaise.

Apply Current in an appropriate invert system. The ratios given below should be used only as a guide in the preparation of a Current invert emulsion. It is best to test the invert system to be used prior to application to ensure proper results. The tightness and weight of the invert may be altered by slight changes in the suggested ratios.

Approximate ratios for tank mix systems:

80 gallons water: 3 gallons invert oil: 8 gallons Current.

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Approximate ratios for bi-fluid mixer systems:

60 gallons water: 3 gallons invert oil: 16 gallons Current.

In areas of heavy weed growth, invert application may produce streaking effect due to localized control where the hoses were drug. For such areas, a direct application is preferred. Repeating an application of Current to a treated area within a short time after the first treatment may not increase effectiveness.

Polymer Application (Except CA): A polymer may be added to Current or a Current/Water premix to improve sinking, deposition and retention of the spray. Consult the manufacturer's recommendations regarding the use of a polymer for improved aquatic weed control.

SPRAY EQUIPMENT

Surface Application: Surface application may be effective near shorelines or in shallow water.

Polymer Application (Except CA): Apply the recommended rate of Current in 100 to 400 gallons of total spray solution per surface acre. Add the recommended rate of sinking agent to the spray solution. Maintain constant agitation during addition of the polymer and continue through application. The polymer adheres to Current and forms strings that sink and stick to the aquatic vegetation. When treating slow moving water, the spray rig should move at a slow pace (4 to 5 mph) counter to the flow of water. Apply the spray solution to the area of densest foliage

AIRCRAFT APPLICATION

Polymer Application (Except CA): Apply the recommended rate of Current in 20 gallons of total spray solution per surface acre. Add the recommended rates of a drift control or sinking agent to the spray solution. Maintain constant agitation during addition of the polymer and continue through application. When treating slow moving water, apply the spray solution counter to the flow of water.

TANK MIX

Current + Diquat Tank Mix: Current can be mixed with diquat (diquat dibromide (1,2-a:2'1'-c) pyrazinedium dibromide 35.3%) and be applied by helicopter for control of Bladderwort, Curlyleaf Pondweed, Leafy Pondweed, Richardson Pondweed, Small Pondweed, Cattail, Common Elodea, Duckweed, Water Lettuce, Eurasian Watermilfoil, Floatingleaf Pondweed, Coontail, Common Salvinia, Southern Naiad, Slender Naiad, Sago Pondweed, Pennywort, Hydrilla and Water Hyacinth in accordance with the more restrictive of the label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Mix 20 gallons of Current with 10 gallons of diquat and 2 gallons of Nalquatic per 100 gallons of water. Apply at the rate of 20 gallons per acre (equivalent to 4 gallons Current, 2 gallons diquat and 0.4 gallons Nalquatic per surface acre). Algae on plant surfaces may interfere with uptake of herbicides. Use Symmetry algaecide prior to this application to remove excess algae and improve control.

Current + Endothall Tank Mix (Except CA): Current can be mixed with endothall (dipotassium salt of endothall 40.3%) and be applied as a uniform surface spray or injected under the water's surface for control of Najas Elodea, Coontail, Potamogeton, Watermilfoil, Zannichellia, Vallisneria, Cladophora, Pithophora, Spirogyra, Chara, American Pondweed and Sago Pondweed in accordance with the more restrictive of the label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Mix 20 gallons of Current with 15 gallons of endothall in 100 gallons of water. Apply at the rate of 20 gallons per surface acre (equivalent to 4 gallons Current, 3 gallons endothall). Algae on plant surfaces may interfere with uptake of herbicides. Use Symmetry algaecide prior to this application to remove excess algae and improve control.

Current + Fluridone Tank Mix (Except CA): Current can be mixed with 41.7% fluridone, and be applied as a uniform surface spray or injected under the water's surface for control of Common Duckweed, Spatterdock, Bladderwort, Fanwort (Cabomba), Watermilfoil, Paragrass, Common Elodea, Brazilian Elodea, Najas Elodea, Naiad, Coontail, American Pondweed and Sago Pondweed in accordance with the more restrictive of the label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Mix 20 gallons of Current with 1.5 quarts of 41.7% fluridone in 100 gallons of water. Apply at the rate of 20 gallons per surface acre (equivalent to 4 gallons Current, 0.3 quarts 41.7% fluridone). Algae on plant surfaces may interfere with uptake of herbicides. Use Symmetry algaecide prior to this application to remove excess algae and improve control.

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WARRANTY STATEMENT

As the manufacturer, PHOENIX warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of PHOENIX. To the fullest extent permitted by law, the manufacturer shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. PHOENIX MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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