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# Supplemental Label

SePRO

# Komeen®
## AQUATIC HERBICIDE

ACCEPTED
FOR REGISTRATION

May 16, 2013

New York State Department
of Environmental Conservation
Division of Materials Management
Pesticide Product Registration

Classified for
"RESTRICTED USE"
in New York State
under 6NYCRR Part 326

**EPA Reg. No. 67690-25**

This supplemental label expires on 03/08/2016 and must not be used or distributed after this date.

**This supplemental labeling in addition to the product label or the container must be in the possession of the user at the time of application.**

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

Use of Komeen according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for Komeen.

Read the entire label affixed to the container and supplemental label before applying.

Attention: the updated label language includes the following:

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than ½ of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters, to determine if a permit is required.

Certain water conditions including low pH (≤6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e. alkalinity less than 50 mg/L), increase the potential acute toxicity to non-target aquatic organisms. Do not use in waters containing trout or other fish species that are highly sensitive to copper if the alkalinity is less than 50 ppm. Fish toxicity generally decreases when the hardness of water increases. Komeen must not be used in ornamental ponds containing Koi.

## PRODUCT INFORMATION

Komeen controls many submersed and floating aquatic plant species including hydrilla (*Hydrilla verticillata*), Brazilian elodea (*Egeria densa*), naiad (*Najas* spp.), coontail (*Ceratophyllum demersum*), elodea (*Elodea canadensis*), water lettuce (*Pistia stratiotes*), water fern (*Salvinia* and *Azolla* spp.), duckweed (*Lemna* and *Landoltia* spp.), water hyacinth (*Eichhornia crassipes*) and other submersed and floating aquatic weed species that are

sensitive to copper. Under certain water quality conditions, such as low water hardness, Komeen may also control Eurasian watermilfoil (*Myriophyllum spicatum*), sago pondweed (*Potamogeton pectinatus*) and American pondweed (*Potamogeton nodosus*).

Apply when weeds are actively growing. The most copper sensitive weed species require a minimum of three (3) to twenty-four (24) hours of contact with Komeen in order to provide effective control. Less susceptible species may require longer contact time or higher doses. Significant water movement may result in dilution of the treated water and reapplication may be necessary. Susceptible aquatic weeds will generally drop below the surface of the water within 3 to 14 days after treatment. If this effect is not observed, Komeen may be re-applied after a minimum of 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.

Komeen may be applied by aircraft, sprayer or spray boat as a surface spray, as a subsurface application through weighted hoses, or mixed with adjuvants, a polymer (except CA), or surfactants as appropriate. As a surface or subsurface application, Komeen may be applied diluted or undiluted, whichever is most suitable to ensure uniform coverage of the treated area. Apply Komeen to the area where the greatest concentration of foliage is located in a manner that will deposit the herbicide on leaf surfaces.

Dilution with water may be necessary at the lower application rates to ensure uniform coverage of the treated area. Dilute the required amount of Komeen with enough water to ensure even distribution with the type of equipment being used..

**APPLICATION INFORMATION**

In lakes, reservoirs, and ponds, the application site is defined by this label as the specific location where Komeen is applied. Use the lower listed rate in soft water (less than 50 ppm alkalinity), for light infestations and less mature plants; use the higher concentration in hard water (above 50 ppm alkalinity), for dense infestations and when targeting more mature vegetation.

For aquatic weed control (including vascular plants and algae)**,** do not exceed 1.0 ppm metallic copper during any single application; wait a minimum of 14 days between treatments, except for algae control in aquaculture ponds when fish are present. In that case, do not exceed a concentration of 0.4 ppm during any single application and wait a minimum of 10 days between treatments.

When treating slow-moving water, apply the spray solution counter to the flow of water.

**TABLE 1**
**Application Concentrations For Submersed Aquatic Weed Control**

| Weed Species | Metallic Copper Level Required For Control (ppm) |
|---|---|
| American pondweed *(Potamogeton nodosus)* † | 0.75 - 1.0 |
| Brazilian elodea *(Egeria densa)* | 0.50 - 1.0 |
| Coontail *(Ceratophyllum demersum)* | 0.50 - 1.0 |
| *Elodea (Elodea canadensis)* | 0.50 - 1.0 |
| Eurasian watermilfoil *(Myriophyllum spicatum)* † | 0.75 - 1.0 |
| Hydrilla (*Hydrilla verticillata)* | 0.75 - 1.0 |
| Naiad *(Najas* spp.) | 0.50 - 1.0 |
| Pondweed spp. *(Potamogeton* spp.*)* | 0.75 - 1.0 |

| | |
|---|---|
| Sago pondweed *(Potamogeton pectinatus)* † | 0.50 - 1.0 |
| Other susceptible submersed species | 0.75 - 1.0 |

† Control generally only in low water hardness.

Komeen can be effective on species of algae with a high sensitivity to copper at concentrations ranging from 0.2 to 1.0 ppm.

**TABLE 2**
**Foliar Application Rates For Floating Aquatic Weed Control†**

| Weed Species | ppm |
|---|---|
| Duckweed (*Lemna, Landoltia,* and *Spirodela* spp.) | 0.75 - 1 |
| Water fern (*Salvinia* and *Azolla* spp.) | 0.75 - 1 |
| *Water hyacinth (Eichhornia crassipes)* | 0.75 - 1 |
| *Water lettuce (Pistia stratiotes)* | 0.5 - 0.75 |

† The addition of a surfactant is recommended to improve efficacy on floating plants. Follow surfactant product labeling instructions for application rates and use directions. **Add Komeen and appropriate surfactant to a recommended minimum of 50 gallons of spray solution per surface acre. Use an adequate spray volume to ensure good coverage of the plant.** Do not exceed 3.34 gallons of Komeen per acre foot.

**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 copper (ppm) x Average depth of water (feet) x 3.34 = Gallons of Komeen per surface acre**

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

Formulas

- Area of a square or rectangle ($ft^2$) = length x width
- Area of a circle ($ft^2$) = 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.)

Conversion Factors

- 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

**TABLE 3**

| Average Water Depth of Treatment Site (feet) | Gallons of Komeen 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 | 6.6 |
| 3 | 5.0 | 7.5 | 10.0 |

| | | | |
|---|---|---|---|
| 4 | 6.7 | 10.0 | 13.3 |
| 5 | 8.4 | 12.5 | 16.7 |
| 6 | 10.0 | 15.0 | 20.0 |
| 7 | 11.7 | 17.5 | 23.3 |
| 8 | 13.4 | 20.0 | 26.7 |
| 9 | 15.0 | 22.5 | 30.0 |
| 10 | 16.7 | 25.1 | 33.4 |

† For surface applications, dilute Komeen with water in a minimum ratio of 4:1 (Komeen:water). For subsurface applications, no dilution is required.

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

**TABLE 4**

| Average Water Depth of Treatment Site (feet) | Fluid Ounces[1] of Komeen per 1,000 ft$^2$ to Achieve the Desired Copper Concentration[2] | | |
|---|---|---|---|
| | 0.5 ppm | 0.75 ppm | 1.0 ppm |
| 1 | 5.0 | 7.3 | 9.7 |
| 2 | 9.8 | 14.7 | 19.3 |
| 3 | 14.7 | 22.1 | 29.0 |
| 4 | 19.6 | 29.4 | 39.0 |
| 5 | 24.5 | 36.8 | 49.0 |
| 6 | 29.4 | 44.2 | 58.7 |
| 7 | 34.4 | 51.5 | 68.4 |
| 8 | 39.3 | 58.9 | 78.4 |
| 9 | 44.2 | 66.2 | 88.1 |
| 10 | 49.1 | 73.6 | 98.1 |

**[1]: When treating low volumes and measurements in tablespoons is desired, multiply the volume in fluid ounces by 2 to get the volume in tablespoons (one fluid ounce contains two tablespoons).**
**[2]:** For surface applications, dilute Komeen with water in a minimum ratio of 4:1 (Komeen:water). For subsurface applications, no dilution is required.

## METHODS OF APPLICATION

*Subsurface Application*

In deeper water, it is recommended to make a subsurface application of Komeen at listed rates through weighted trailing hoses in order to deliver spray mix to the water depth of target vegetation. Do not drag hoses on the bottom. Do not exceed 3.34 Gallons of Komeen per acre foot.



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