



# TECHNICAL DATA SHEET

**Product Name: TKO**  
**Algaecide and Herbicide**

**Product Number: MARC 14**

TKO is a liquid copper-based formulation containing ethanolamine *chelating agents* which prevent the precipitation of copper with carbonates and bicarbonates in the water. (A chelating agent is a chemical compound that reacts with metal ions such as copper to form stable, water-soluble metal complexes. The agent improves the metal's general stability and functionality.)

TKO effectively controls a broad range of algae. TKO has also been proven effective in controlling the rooted aquatic plant, *Hydrilla verticillata*. Waters treated with TKO may be used for swimming, fishing, further potable water treatment, livestock watering or irrigating turf, ornamental plants or crops after treatment.

## Features:

- Rapid Acting • Stable in Hard Water • Kills on Contact • Broad Spectrum Activity
- Controls floating and submersed filamentous algae species. Begin application in spring as water temperature warms to 60° F. Apply TKO before pond has a significant infestation of algae or plants.
- Excellent efficacy in a wide range of water quality conditions, including hard water systems.
- Algae and vascular plant control will last for several weeks to several months depending upon environmental conditions. Retreat as re-growth begins to appear.
- Controls 3 families of algae: Planktonic (suspended) algae, Filamentous (mat-forming) algae and Benthic (bottom growing) algae such as Chara and Nitella
- Also effective in controlling the rooted aquatic plant *Hydrilla verticillata*.
- TKO is a contact mode of action herbicide in the metallic copper chemical class.
- TKO may be toxic to trout and other sensitive species if the hardness of treated water is less than 50 ppm. Do not use in water containing Koi or hybrid Goldfish.
- Contact with algae will be improved by breaking apart heavy surface mats before applications. Treat heavy infestations in segments of no more than half of the surface area to avoid dissolved oxygen loss which can kill fish. See label for maximum usage to avoid harm to fish and aquatic organisms.
- For improved efficacy, treat when plants are actively growing under calm conditions. Contact time should be at least 3 hours.
- TKO is a State Restricted Pesticide in the State of Washington.
- If used in drinking water, follow label directions carefully. Water must be treated before further use.

## For Use In:

Lakes • Reservoirs • Industrial Ponds • Wastewater • Fish Hatcheries • Irrigation Canals • Drainage Ditches

## Specifications:

Appearance: Dark blue liquid  
Odor: Strong ammonia  
Melting/freezing point: Not available  
Boiling point/Boiling range: Not available  
Flammability: Not available  
Flammability limits (upper/lower): Not available  
Flash point: Not determined  
Auto-ignition temperature: Not available

pH: 9.7-9.9  
Kinematic viscosity: 13.5 centipose @ 24°C  
Solubility: Not available  
Partition coefficient: Not available  
Vapor pressure: Not available  
Density: 9.89 lbs./gal. @ 24°C  
Relative vapor density: Not available  
Particle characteristics: Not available

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