



071983-00001-050699

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Systems Integration Group, Inc.



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7504C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
71983-1

Date of Issuance:
MAY 06 1999

NOTICE OF PESTICIDE:
 X Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product: Tamko
212

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Tamko Specialty Chemicals
220 West Fourth Street
Joplin, Missouri 64802

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, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 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. Make the following label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 71983-1".
- b. Place the appropriate Establishment No. on the product labeling.
- c. Revise the required precautionary and practical treatment label statements:

Signal word: CAUTION

Signature of Approving Official:
Marshall Swindell, PM-33

Date:

MAY 06 1999

2079

- d. Place the Precautionary Statements to appear under the subheading *HAZARDS TO HUMANS AND DOMESTIC ANIMALS* should state the following:

Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

- e. Instructions to appear under the heading, *Statement of Practical Treatment*, should state the following:

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

- f. Revise the Environmental Hazards Statement to read as follows:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) Permit and the permitting authority has been notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

These statements should appear in the Environmental Hazards section of the label and are in addition to any other required statements (such as *This product is toxic to fish....* or *Do not contaminate water by cleaning of equipment or disposal of wastes.*

A copy of the toxicology review is enclosed for your records.


The product chemistry data, Reference Guideline Nos. 830.1550, 830.1600, 830.1650, 830.1670, 830.1750, 830.1800, 830.6320, 830.6323, 830.6324, 830.7000, 830.7100 and 830.7300 are acceptable. The Storage Stability and Corrosion Characteristics studies were for a 28-day accelerated study and are acceptable. The submitted data waiver requests are acceptable.

- 3. Submit two copies of the revised final printed label for the record.

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.

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EPA Reg. No.

A stamped copy of the label is enclosed for your records.



Marshall Swindell
Product Manager 33
Regulatory Management Branch I
Antimicrobial Division (7505C)

4049

[FRONT LABEL PANEL]

Tamko®

212

ACCEPTED
with COMMENTS
in EPA Letter Dated:

MAY 06 1999

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.
71983-1

- Designed For Effective Control of Unsightly Algae Growth on Shingles
- Formulated for Effective Control of Unsightly Algae Growth on Shingles
- Algae Discoloration Treatment for Shingles
- Formulated to Inhibit the Unsightly Growth Of Algae on Shingles
- For Protection of Exterior Surfaces Against the Growth of Dark Colored Algae

For Commercial, Industrial or Residential Use

Active Ingredient:		
	Copper Sulfate Pentahydrate*	3.91%
Inert Ingredients:		96.09%
	Total:	100.00%

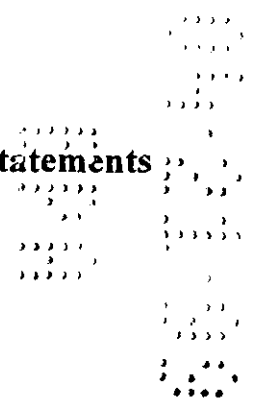
*Metallic copper equivalent, 1.0%.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back (or side) panel for additional precautionary statements

NET CONTENTS ½ GALLON



5049

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[BACK LABEL PANEL]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting. **If Inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. **If In Eyes:** Flush eyes with plenty of water. Call a physician if irritation persists. **If On Skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not apply directly to water. Do not contaminate water in cleaning of equipment or disposal of equipment washwaters.

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

STORAGE & DISPOSAL

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

Pesticide Storage: Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry area and avoid temperatures below 32°F. Do not put this product or diluted material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

In case of spill, confine spills using sand, clay, cat litter, dirt or other approved confinement materials. Place damaged container and collected spilled material in a holding container. Properly label contents in accordance with applicable Federal, state and local regulations.

Do not store under conditions which might adversely affect the container or its ability to function properly. Such conditions include, but are not limited to, positioning of the container in storage or transit, temperature, potential for crushing or damage due to stacking, and penetration of moisture.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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

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[BACK (OR SIDE) LABEL PANEL]

General: *Tamko 212* is one part of the *Algae Attak System* as described in the Tamko Technical Bulletin entitled *Algae Attak System Instructions*. *Tamko 212* must be used with *Algae Attak Sealer*. Always apply *Tamko 212* prior to *Algae Attak Sealer*. If shingles are visibly discolored by algae, *Algae Attak Cleanup* must be used prior to application of the two-part *Algae Attak System*.

Application Equipment: Tamko recommends the use of low shear spray equipment capable of delivering liquids at a pressure less than 100 PSI and a flow rate less than 2 gpm. The application equipment should also provide recirculation of the spray solution through the supply tank, and/or gentle agitation, to maintain suspension of any solids in the spray solution. Separate mixing tanks should be used for each component of the *Algae Attak System*.

Preparation: Prepare shingles to be treated with *Tamko 212* by removing any foreign material such as leaves, twigs or pine needles. Examine the structure for areas where unexpected overspray may occur, for example, along eaves, edges, etc. Cover or remove items near or beneath these areas. Proper application techniques should ensure spray solution remains on the treated surface.

How To Use *Tamko 212*: Mix one container of *Tamko 212* (1/2 gallon) with 7½ gallons of clean water and apply to uniformly cover an average shingled surface area of 3,500 square feet. Under conditions which may effect the evaporation rate of the water carrier, it may be helpful to adjust the dilution of *Tamko 212* by mixing 1/2 gallon of *Tamko 212* with a minimum of 5½ gallons to a maximum of 19½ gallons of clean water to cover 2,800 to 4,200 square feet of shingled surface area. Adjust the dilution rate within the prescribed ranges when roof surface temperatures are high and require a higher dilution rate for adequate coverage. Swirl or gently agitate, then completely empty a single 1/2 gallon container of *Tamko 212* into the application equipment spray tank, or into a clean, plastic mixing vessel. Follow, by adding a sufficient amount of clean water (i.e. 5½ to 19½ gallons) with the 1/2 gallon of *Tamko 212*. This should result in a total spray solution volume of 6 to 20 gallons. Use a portion of the 5½ to 19½ gallons of dilution water to thoroughly rinse the *Tamko 212* 1/2 gallon container. The *Tamko 212* 1/2 gallon container should be rinsed three times with the rinsate added to the application equipment spray tank or mixing vessel. Use recirculation and/or gentle agitation, as described above under "Application Equipment" to uniformly disperse the *Tamko 212* spray solution. Use a spray application pattern and rate that provides for complete and uniform coverage of a thin film of spray solution over the shingled surface area. The application pattern should be designed to avoid walking on treated areas which may become dangerously slick until they have completely dried.

NOTE: Refer to the Tamko Technical Bulletin entitled *Algae Attak System Instructions* for additional information on application of *Algae Attak Sealer* and cleanup of shingled surfaces.

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TAMKO TECHNICAL BULLETIN ALGAE ATTAk SYSTEM INSTRUCTIONS

General: [Note: This section reserved for a general discussion of the overall description of the *Algae Attak* program]

Step 1: Preparation and Application of *Tamko 212* Algae Inhibitor Solution -

Tamko 212 must be used with *Algae Attak Sealer*. Always apply *Tamko 212* prior to *Algae Attak Sealer*. If shingles are visibly discolored by algae, *Algae Attak Cleanup* must be used prior to application of the two-part *Algae Attak System*.

Application Equipment: Tamko recommends the use of low shear spray equipment capable of delivering liquids at a pressure less than 100 PSI and a flow rate less than 2 gpm. The application equipment should also provide recirculation of the spray solution through the supply tank, and/or gentle agitation, to maintain suspension of any solids in the spray solution. Separate mixing tanks should be used for each component of the *Algae Attak System*.

Preparation: Prepare shingles to be treated with *Tamko 212* by removing any foreign material such as leaves, twigs or pine needles. Examine the structure for areas where unexpected over spray may occur, for example, along eaves, edges, etc. Cover or remove items near or beneath these areas. Proper application techniques should ensure spray solution remains on the treated surface.

How To Use *Tamko 212*:

Mix one container of *Tamko 212* (1/2 gallon) with 7½ gallons of clean water and apply to uniformly cover an average shingled surface area of 3,500 square feet. Under conditions which may effect the evaporation rate of the water carrier, it may be helpful to adjust the dilution of *Tamko 212* by mixing 1/2 gallon of *Tamko 212* with a minimum of 5½ gallons to a maximum of 19½ gallons of clean water to cover 2,800 to 4,200 square feet of shingled surface area. Adjust the dilution rate within the prescribed ranges when roof surface temperatures are high and require a higher dilution rate for adequate coverage. Swirl or gently agitate, then completely empty a single 1/2 gallon container of *Tamko 212* into the application equipment spray tank, or into a clean, plastic mixing vessel. Follow, by adding a sufficient amount of clean water (i.e. 5½ to 19½ gallons) with the 1/2 gallon of *Tamko 212*. This should result in a total spray solution volume of 6 to 20 gallons. Use a portion of the 5½ to 19½ gallons of dilution water to thoroughly rinse the *Tamko 212* 1/2 gallon container. The *Tamko 212* 1/2 gallon container should be rinsed three times with the rinsate added to the application equipment spray tank or mixing vessel. Use recirculation and/or gentle agitation, as described above under "Application Equipment" to uniformly disperse the *Tamko 212* spray solution. Use a spray application pattern and rate that provides for complete and uniform coverage of a thin film of spray solution over the shingled surface area. The application pattern should be designed to avoid walking on treated areas which may become dangerously slick until they have completely dried.

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NOTE: Read entire *Tamko 212* product label for precautions and storage & disposal instructions.

Step 2: Preparation and Application of *Algae Attak Sealer* Solution - [Note: This section reserved for instructions on application of the *Algae Attak Sealer* (acrylic coating)].

***Algae Attak Cleanup* - [Note: This section reserved for instructions on use of the *Algae Attak Cleaner* product].**

Version Date: 4/16/99

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MAY 0 6 1999

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