



**MATERIAL SAFETY DATA SHEET**  
**AdVANTAGE**  
**COPPER PLUS**

Effective 08/07/13

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## SECTION 1 - EMERGENCY TELEPHONE

For 24-hour emergency assistance, contact Chem-Tel **1-800-255-3924/Contract# MIS0004517**

## SECTION 2 - DISTRIBUTOR INFORMATION

Vanco Industries, LLC

799 W. 200 N.

Paul, ID 83347

(208) 312-3160

## SECTION 3 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: **AdVANTAGE Copper Plus**

Synonyms: Copper Plus, Footbath powder, Footbath mix

Product Use: Cow hoof health maintenance

Chemical Formula: Inorganic Metallic Salt mixture, see Section 4

CAS Number: mixture, see Section 4

Manufactured for: Vantage Dairy Supplies, Inc.

799 W. 200 N.

Paul, ID 83347

208-438-3160

## SECTION 4 – COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS Number	% (by weight)	Exposure Limits
Copper Sulfate	7758-99-8	15 – 50	OSHA PEL TWA: 1.0 mg/m <sup>3</sup> (as copper dust)
Zinc Sulfate	7446-19-7	15 – 50	OSHA PEL TWA: 15.0 mg/m <sup>3</sup> (as zinc dust)
Inert Ingredients		5-30	N/A

## SECTION 5 – HAZARDS IDENTIFICATION

Emergency Overview: Mixture of blue and white granular material. Some components of this material are hazardous and should be considered toxic.

Harmful if swallowed or absorbed through the skin. Avoid contact with the skin, eyes or clothes.

Eye Contact: Causes mild to severe irritation. Can cause irreversible eye damage.

Skin Contact: Prolonged exposure may cause severe irritation. Harmful if absorbed through the skin.

Inhalation: Avoid breathing dust or mist. Inhalation of dust may irritate or burn nose, throat and lungs.

Ingestion: Harmful if swallowed.

Chronic (Cancer) Information: Not known to cause cancer. Not listed as carcinogen by IARC, NTP or OSHA.

Potential Environmental Effects: Material in dry form is not hazardous to the environment. However, readily dissolves in water and is toxic to fish and plants. Therefore, keep out of streams and ditches.



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## **SECTION 6 – FIRST AID MEASURES**

Note To Physician: Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. May aggravate pre-existing respiratory conditions.

Eyes: Immediately flush eyes with water for at least 15 minutes, lifting eyelids to thoroughly flush. If redness or irritation persists, get prompt medical attention.

Skin: Immediately flush affected area with water for at least 15 minutes. Remove and wash contaminated clothing before reuse.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: If large amounts are ingested (greater than tablespoonful), drink large quantities of milk or water. DO NOT induce vomiting. Contact poison control center or physician immediately.

## **SECTION 7 – FIRE FIGHTING MEASURES**

Flammable Properties: Not applicable. Material will not burn.

Flammable Limits: Not applicable. Material is non-combustible.

Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Water spray or fog may be used as a cooling medium for the material.

Hazardous Combustion Products: May release oxides of copper, zinc, and sulfur.

Fire Fighting Instructions: Product readily dissolves in water. Take care to keep such water from entering streams or other water bodies. Self-contained breathing apparatus should be worn.

## **SECTION 8 – ACCIDENTAL RELEASE MEASURES**

Land Spill: Vacuum or shovel dry material and place in disposal container. Avoid excessive dust generation. Dispose of in compliance with Federal, State and Local regulations. Do not dilute with water.

Water Spill: Readily dissolves in water and is toxic to plants and animals. If water is isolated or can be contained, do so to prevent further contamination. Remove the contaminated water and place in a disposal container. Notify appropriate authorities if required by regulations.

## **SECTION 9 – HANDLING AND STORAGE**

Handling: Wear all recommended personal protective clothing when handling, including gloves, dust respirator, safety glasses/goggles and clothing. Avoid contact with eyes. Wash thoroughly after handling. Minimize dust generation. Avoid breathing dust.

Storage: Material is hygroscopic and will readily absorb moisture. Keep containers tightly closed. DO NOT store where exposed to moist conditions. Keep containers in a cool, dry, well-ventilated area away from heat sources.

## **SECTION 10 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Engineering Controls: Provide general and/or local exhaust ventilation to maintain airborne particulate below PEL levels (1 mg/m<sup>3</sup>).

Respiratory Protection: In dusty atmospheres (>1 mg/m<sup>3</sup>), use a NIOSH-approved dust respirator.

Skin Protection: Rubber gloves and cotton-blend coveralls.

Eye Protection: Safety glasses or goggles.

General Hygiene Considerations: Follow good industrial hygiene practices including but not limited to: (1) wash hands after use and before eating; (2) avoid breathing dust; and (3) wear safety glasses.



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## **SECTION 11 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Blend of blue and off-white granular material

Odor: Fresh, odorless to slight odor of ammonia

Physical State: Dry, crystalline solids

Molecular Formula: See Section 4 for ingredients

Particle Size: mixture of various size crystalline solids

Bulk Density: 75 - 80 lbs/ft<sup>3</sup>

Percent Volatile: Non-volatile

## **SECTION 12 – STABILITY AND REACTIVITY**

Stability: Stable at normal temperatures and pressures

Incompatibility: Dissolves readily in water, but does not react.

Conditions to Avoid: DO NOT store dry product where exposed to moist conditions. Avoid elevated temperatures.

Hazardous Decomposition Products: Only if heated over 500°C, at which copper, zinc and sulfur oxides can be formed.

Hazardous Polymerization: Will not occur.

## **SECTION 13 – TOXICOLOGICAL INFORMATION**

Reported Human Effects: See individual MSDSs for the listed ingredients in Section 4.

Reported Animal Effects: See individual MSDSs for the listed ingredients in Section 4.

Irritation: This material will irritate the skin, eyes and respiratory system.

## **SECTION 14 – ECOLOGICAL INFORMATION**

Ecotoxicological Information: This product readily dissolves in water and is toxic to animals, fish and plants.

## **SECTION 15 – DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state and federal laws and regulations as required for the ingredients listed in Section 4.

## **SECTION 16 – TRANSPORTATION INFORMATION**

DOT proper shipping name: RQ, Environmentally Hazardous Substance, Solid, N.O.S. (Cupric Sulfate, Zinc Sulfate)

DOT Hazard Class/ID#: Class 9 / UN3077 / PG III / ERG 171

DOT Label: Miscellaneous Hazardous Materials

Note: Marine Pollutant

## **SECTION 17 – REGULATORY INFORMATION**

OSHA: This product is considered Hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

NFPA Rating: Health – 3      Reactivity – 0      Flammability – 0      Special Precautions – None

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