

MATERIAL SAFETY DATA SHEET**NUTRIENT TECHNOLOGIES, INC.**

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TRADE NAME: TECH-SPRAY® COPPER (0-10-0 + 5% Cu, 2½% S)**CHEMICAL FAMILY:** Soluble inorganic salts formulated for use as a plant nutrient.**CHEMICAL NAME & SYNONYMS:** Metallic sulfates and phosphates.**SPECIAL REGULATORY HAZARDS**

<u>INGREDIENT</u>	<u>CAS No.</u>	<u>EXPOSURE LIMIT</u>	<u>OSHA (1910.1200)</u>
Phosphoric acid	7664-38-2	1 mg/m ³ (OSHA)	Irritant, Corrosive
Copper Sulfate	1344-73-6	Cu, 1 mg/m ³	Irritant, Target organ effects

Transportation: DOT Hazard Class 8. Corrosive. ID No: UN 1760. RQ=10 Gallons.
Export: IMO/ICAO/IATA 8; Corrosive, UN 1760.

TYPICAL PROPERTIES

Odor:	Sweet	Physical Form:	Liquid
Color:	Blue	Vapor Press.(22 C):	Same as water
Boiling Pt.:	100 C	Lbs/Gal (68 F):	10.40
Sp. Gr. (18 C):	1.240	Vapor Density (Air=1):	N/A
Solubility in Water:	100%	pH:	1.0

HAZARD CLASSIFICATION

FIRE- [0] **TOXICITY-** [1] **ODOR-** [1] **REACTIVITY-** [0] **CORROSIVENESS-** [3]
(Hazard Rating Code: 0-None; 1-Slight; 2-Moderate; 3-High)

FIRE & EXPLOSION HAZARD DATA**FLASH POINT (Method):** Not applicable.**FLAMMABLE LIMITS (%-by-wt):** Product is not flammable.**EXTINGUISHING MEDIA:** Foam, CO₂, water, dry chemicals.**SPECIAL FIRE FIGHTING PROCEDURES:** None.**UNUSUAL FIRE & EXPLOSION HAZARDS:** None.**HEALTH HAZARD DATA****PRIMARY ROUTE OF ENTRY:** Ingestion.**SPECIAL HAZARDS:** Contact with eyes or skin may cause irritation. Ingestion may cause nausea, vomiting or diarrhea.**TOXICOLOGY:** There are no toxicological data on this material.**EMERGENCY & FIRST AID PROCEDURES:** For eye contact, flush with water for 15 minutes. Get medical attention. For skin contact, wash thoroughly with soap and water. If ingested, use gastric lavage to empty stomach. Consult a physician.

REACTIVITY DATA

STABILITY: Material is stable.

CONDITIONS TO AVOID: Reaction with strongly alkaline materials.

INCOMPATIBILITY (Materials to Avoid): Avoid contact with strong bases, reactive metals.

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic phosphorus oxides if dry residue is heated to decomposition.

HAZARDOUS POLYMERIZATION: Will not occur.

STORAGE, SPILLS, AND DISPOSAL INFORMATION

SPILL OR LEAK PROCEDURES: Steps to be taken in case material is released or spilled:

Neutralize with lime or soda ash. Take up with sand, clay, or other absorbent material. Transfer to secure containers for proper disposal. Use personal protective equipment as outlined below.

WASTE DISPOSAL METHOD:

May be disposed of as fertilizer waste or in an approved chemical waste landfill as state or federal regulations permit regarding inorganic waste. Incineration is not practical.

CONTAINER DISPOSAL METHOD:

Triple rinse and dispose of in an approved landfill or incinerate in accordance with all applicable government regulations.

ENVIRONMENTAL: Avoid run-off to water supplies, streams, etc., or storm-water discharge.

HANDLING AND STORAGE PRECAUTIONS

SPECIAL PROTECTION INFORMATION: Respiratory Protection: Not normally required.

PROTECTIVE GLOVES: Should be worn when handling.

EYE PROTECTION: Tight fitting goggles are recommended.

OTHER PROTECTIVE EQUIPMENT: Rubber apron recommended.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid skin and eye contact. Observe good personal hygiene.

STORAGE PRECAUTIONS: Protect from freezing. Keep containers closed when not in use. Do not store more than two pallets high.

OTHER PRECAUTIONS: Eyewash equipment should be available.

SARA TITLE III (40 CFR 372)

SECTION 313 TOXIC CHEMICALS NOTIFICATION

<u>TOXIC CHEMICAL</u>	<u>CAS #</u>	<u>%-By-Weight</u>
Phosphoric Acid	7664-38-2	14.0
Copper Sulfate	1344-73-6	12.5

Carcinogenic per NTP___ IARC___ OSHA___ NONE x

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