

Section 1—Identification of Substance and Supplier

PRODUCT NAME: ACIDIFIED COPPER SULFATE
 PRODUCT USE: SUPPLEMENTAL COPPER FOR CHICKENS AND TURKEYS

MANUFACTURER: Animal Science Products, Inc.
 PO Box 631408
 Nacogdoches TX USA 75963-1408

TEL: 936-560-0003
 800-657-2324
 FAX: 936-560-0157

Emergency: 24 Hour—Call Chemtrec 800-262-8200

Section 2—Hazards Identification

GHS Classification:

| | | |
|---------------------|-------------------|----------|
| Health | Environmental | Physical |
| Acute Toxicity: | Acute Toxicity: | Other: |
| Skin Irritation: | Chronic Toxicity: | |
| Skin Sensitization: | | |
| Eyes: | | |

WHMIS Classification

NFPA Classification

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|---------------|---|---------------|---|
| Health: | 2 | Health: | 0 |
| Flammability: | 0 | Flammability: | 0 |
| Reactivity: | 0 | Reactivity: | 0 |
| PPE: | 0 | Other: | 0 |

Hazard Statements

Can cause severe eye irritation and possible corneal burns
 Can irritate upper respiratory tract
 Can cause gastrointestinal disturbances
 Can cause skin irritation, redness and pain

Precautionary Statements

Contact lenses should not be worn. Wear chemical safety goggles. Rubber gloves and rubber apron should be worn. Wear an approved respirator for dust and mist. Provide mechanical ventilation or local exhaust.

Section 3—Composition and Hazardous Ingredient Information

COPPER SULFATE PENTAHYDRATE CAS# 7758-99-8
CITRIC ACID ANHYDROUS CAS# 77-92-9

Section 4—First Aid Measures

- Contact with eyes:** Flush eyes immediately with copious amounts of water for at least 15 minutes with eyelids spread apart. Washing within one minute is essential to achieve maximum effectiveness. Get immediate medical attention after flushing or if irritation persists.
- Skin contact:** Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse. If irritation should develop, get medical attention.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
- Ingestion:** Induce vomiting immediately by giving two glasses of water or milk and sticking a finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.

Section 5—Fire Fighting Measures

- Suitable Extinguishing Media:** Does not support combustion, use media appropriate for surrounding environment.
- Unsuitable Extinguishing Media:** N/A
- Exposure Hazards:** N/A
- Combustion Products:** Not combustible.
- Protection for Firefighters:** Heating over 300°C emits toxic sulfur fumes. Extinguishing with water will dissolve copper sulfate and runoff should be kept out of watershed.

Section 6—Accidental Release Measures

- Personal Precautions:** Do not wash away powder. Recover dry if possible. If product is in a confined solution, react with soda ash to form insoluble copper carbonate that can be scooped up.
- Environmental Precautions:** Incompatible with bases, hypochlorites, and ammonium compounds.
- Clean-up Methods:** Contact lenses should not be worn. Wear chemical safety goggles. Rubber gloves and rubber apron should be worn. Wear an approved respirator for dust and mist. Provide mechanical ventilation or local exhaust.
- Materials to avoid during cleanup:** N/A

Section 7—Handling and Storage
Handling: Contact lenses should not be worn. Wear chemical safety goggles. Rubber gloves and rubber apron should be worn. Wear an approved respirator for dust and mist. Provide mechanical ventilation or local exhaust.
Storage: Store in a cool, dry and ventilated area.

Section 8—Precautions to control exposure and PPE
Exposure Limits: Skin lacerations and irritation can become more irritated.
Engineering Controls: Rubber apron should be worn.
Personal Protective Equipment
Eyes: Wear safety goggles, full face shield, or full face respirator.
Skin: Wear rubber gloves.
Respiratory: NIOSH respirator prefix TC-21C or filters designated with R, P, or HE.

Section 9—Physical and Chemical Properties

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|-------------------------|------------------|
| Appearance: | Blue powder |
| Odor: | N/A |
| pH: | N/A |
| Melting/Freezing point: | N/A |
| Boiling Point: | N/A |
| Flash Point: | Not combustible. |
| Specific Gravity: | N/A |
| Solubility: | Appreciable |
| Flammability: | N/A |
| Vapor Pressure: | N/A |
| Vapor Density: | N/A |

Section 10—Stability and Reactivity

Stability: Product is stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: Toxic sulfur fumes on heating over 300°C.
Conditions to avoid: Incompatible with bases, hypochlorites, and ammonium compounds.
Incompatible materials: N/A

Section 11—Toxicological Information

Likely routes of exposure: Eyes, skin, inhalation, ingestion
Acute symptoms and effects: Possible irritation of the skin (especially open wounds), eyes and respiratory tract.
Inhalation: Can irritate the upper respiratory tract. Coughing, sore throat, and shortness of breath.
Eye contact: Can cause severe eye irritation and possible corneal burns.
Skin contact: Non toxic, skin irritation is possible, especially when wet.
Ingestion: Orally toxic, LD50 of copper sulfate in male rats 472 mg/kg
Chronic (long term) effects: Prolonged and repeated eye contact may cause conjunctivitis.

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|------------------------------------|------------------------------|----------------------------|------------------------------|-----------------------------|
| <u>Reproductive effects</u> | <u>Teratogenicity</u> | <u>Mutagenicity</u> | <u>Embryotoxicity</u> | <u>Sensitization</u> |
| Not Established | Not Established | Not Established | Not Established | Not Established |

Section 12—Ecological Information

Ecotoxicity: None known
Mobility: None known
Degradability: None known
Bioaccumulation: None known

Section 13—Disposal considerations

Do not reuse container. Comply with federal, state, and local regulations. Sweep up powder and dispose in an approved landfill.

Section 14—Transportation information

Supplemental copper for chickens and turkeys—non-hazardous. Not DOT regulated.

Proper Shipping Name: Supplemental copper for chickens and turkeys
Hazard Class: None
UN ID#: None
Packing Group: None

Section 15—Regulatory information

Section 16—Other information

Issued by:

Email contact: orders@asp-inc.com

Training necessary: None

Date issued/reissued:

Intended use of product: Supplemental copper for chickens and turkeys