

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 282.00

Revision Date: September 15, 2004

### Section 1 — Chemical Product and Company Identification

#### Copper(II) Nitrate

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

### Section 2 — Composition, Information on Ingredients

Copper(II) Nitrate

Synonym: Cupric Nitrate

CAS#: 19004-19-4

### Section 3 — Hazards Identification

Blue crystals, nitric acid odor.

Moderately toxic by ingestion and inhalation. Corrosive. Body tissue irritant. Avoid all body tissue contact.

Strong oxidizer, keep away from organic material.

#### FLINN AT-A-GLANCE

Health-2

Flammability-0

Reactivity-3

Exposure-2

Storage-1

0 is low hazard, 3 is high hazard

### Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

### Section 5 — Fire Fighting Measures

Non flammable, non combustible solid.

Strong oxidizer. Avoid contact with combustible and organic materials. Heating to decomposition may emit toxic fumes of NO<sub>x</sub>.

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

None

Established

### Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

### Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates and nitrites.

Store in a cool dry place. Deliquescent, store in Flinn Chem-Saf Bag. Use and dispense in a hood.

### Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use exhaust ventilation to keep airborne concentrations low.

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### Section 9 — Physical and Chemical Properties

Blue crystals, nitric acid odor.  
Solubility: Soluble in water and alcohol.  
Formula:  $\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$   
Formula Weight: 241.60

Specific Gravity: 2.0  
Melting Point: 115 C

### Section 10 — Stability and Reactivity

Avoid contact with organic materials, reducing agents, heat or moisture. Avoid dust.  
Shelf life: Poor; substance deliquescent.

### Section 11 — Toxicological Information

Acute effects: Corrosive  
Chronic effects: N.A.  
Target organs: N.A.

ORL-RAT LD50: 940 mg/kg  
IHL-RAT LC50: N.A.  
SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### Section 12 — Ecological Information

Data not yet available.

### Section 13 — Disposal Considerations

Please consult with state and local regulations.  
Flinn Suggested Disposal Method #26a is one option.

### Section 14 — Transport Information

Shipping Name: Nitrates, Inorganic, n.o.s.  
Hazard Class: 5.1, Oxidizer  
UN Number: UN1477

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (221-838-5), RCRA code D001.

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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*Flinn Chemical Packaging Prevents Accidents*

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