## FLINN SCIENTIFIC, INC. **Material Safety Data Sheet (MSDS)**

MSDS #: 282.00

**Revision Date:** June 25, 2010

#### 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#: 10031-43-3

#### **SECTION 3 — HAZARDS IDENTIFICATION**

Blue crystals, with a nitric acid odor.

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

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 and 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 at least 15 minutes.

External: Wash continuously with fresh water for at least 15 minutes.

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

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable, noncombustible 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 a 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 the area. Sweep up the spill, place in a 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 a chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

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#### **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Blue crystals, with a nitric acid odor. Specific Gravity: 2.0 Solubility: Soluble in water and alcohol. Melting Point: 115 °C

Formula: Cu(NO<sub>3</sub>)<sub>2</sub> 3H<sub>2</sub>O Formula Weight: 241.60

#### **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. ORL-RAT  $LD_{50}$ : 940 mg/kg Chronic effects: N.A. IHL-RAT  $LC_{50}$ : N.A. SKN-RBT  $LD_{50}$ : 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**

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# Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.