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

**MSDS #:** 265.00

**Revision Date:** June 23, 2010

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Copper

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

CAS#: 7440-50-8

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

Red-brown ductile metal. May be in the form of granules, shot, powder, sheet, wire, foil, or turnings. Odorless.

Irritant to body tissues as dust. Avoid contact with nitric acid, emits toxic fumes of nitrogen oxides.

FLINN AT-A-GLANCE

Health-0

Flammability-0

Reactivity-1 Exposure-0

Storage-0

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 solid.

NFPA CODE

Noncombustible solid in bulk form, but air-born dust may ignite.

None established

Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and

SCBA with full facepiece operated in positive pressure mode.

#### **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 #1. Store with metals and metal hydrides.

#### 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 ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: TWA 0.1 mg/m³ (OSHA)

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

Red-brown ductile metal. Also granules, shot, powder, sheet, wire, and foil turnings. Odorless.

Solubility: Soluble in nitric acid and hot sulfuric acid.

Formula: Cu

Formula Weight: 63.54

Melting Point: 1083 °C Specific Gravity: 8.92

#### **SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers, strong acids, bromates, chlorates, iodates, and halogens. Avoid contact with nitric acid, emits toxic fumes of nitrogen oxides.

Shelf Life: Indefinite.

#### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Irritant. ORL-RAT  $LD_{50}$ : N.A. Chronic effects: N.A. IHL-RAT  $LC_{50}$ : N.A. Target organs: Respiratory system, skin, liver, kidneys, and increased risk with Wilson's disease. SKN-RBT  $LD_{50}$ : 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: Not regulated

Hazard Class: N/A UN Number: N/A N/A = Not applicable

#### **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (231-159-6), 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.