



Copper(II) Nitrate Safety Data Sheet (SDS)

SDS #: 282

Revision Date: December 7, 2015

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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) 424-9678

Signal Word
DANGER

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing solids (Category 2). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).

Hazard class: Serious eye damage or irritation (Category 2A). Causes serious eye irritation (H318).

Pictograms





SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	
Copper(II) nitrate trihydrate	10031-43-3	$\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$	2
Synonyms: Cupric nitrate			

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). Immediately call a POISON CENTER or physician (P310).

If on skin: Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

If swallowed: Rinse mouth. **Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).**

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solid.

Strong oxidizer. Avoid contact with combustible and organic materials. When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher. Take any precautions to avoid mixing with combustibles (P221+P370+P378).

NFPA Code

None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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, nitrites and azides.

Deliquescent. Store in a cool, dry place within a Flinn Chem-Saf™ bag. Keep and store away from clothing and combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

OSHA PEL 1 mg/m³. ACGIH TWA 1 mg/m³

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Blue crystals. Odorless.

Soluble: Water and alcohol

Boiling point: 170 °C (decomposes)

Melting point: 114 °C

Specific gravity: 2.32

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with organic materials, reducing agents, heat, or moisture. Avoid dust. Incompatible with easily oxidizable materials.

Shelf life: Poor, deliquescent. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Skin irritation with redness and pain.

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD₅₀: 940 mg/kg

IHL-RAT LC₅₀: N.A.

SKN-RBT LD₅₀: N.A.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

UN number: UN1477. Shipping name: Nitrates, Inorganic, N.O.S. (CUPRIC NITRATE) Hazard class: 5.1, Oxidizer. Packing Group III

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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

N/A = Not applicable

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

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