

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 726.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Sodium Cobaltinitrite

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

Sodium Cobaltinitrite

Synonym: sodium hexanitrocobaltate (III)

CAS#: 13600-98-1

Section 3 — Hazards Identification

Yellow to brownish-yellow crystals or powder. Medicine-like odor.
Slightly toxic by ingestion. Body tissue irritant. Sensitizer. Avoid all body tissue contact.

FLINN AT-A-GLANCE

Health-1
Flammability-0
Reactivity-2
Exposure-1
Storage-0

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 solid.
Strong oxidizer. Fire and explosion risk when in contact with combustible materials. When heated to decomposition, emits toxic fumes of NO_x & Na₂O.

NFPA CODE

None Established

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

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. 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 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 (Co) (OSHA)

Section 9 — Physical and Chemical Properties

Yellow to brownish-yellow crystals or powder. Medicine-like odor.

Solubility: Very soluble in water; slightly in alcohol.

Formula: $\text{Na}_3\text{Co}(\text{NO}_2)_6$

Formula Weight: 403.96

Section 10 — Stability and Reactivity

Avoid contact with strong acids, organic material, reducers, amines, heat, open flame, or any source of ignition. Mineral acids cause decomposition.

Shelf Life: Indefinite.

Section 11 — Toxicological Information

Acute effects: Toxic, irritant, sensitizer, coughing, chest pains, difficulty breathing, GI disturbances

Chronic effects: Asthma, lung irritation, benign pneumoconiosis, neurotoxic effects, convulsions, cyanosis

Target organs: Lungs, heart, nerves, blood, thyroid

ORL-RAT LD50: N.A.

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 #27f 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

EINECS-listed (237-077-7). 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 MSDS Prevent Chemical Accidents

flinn@flinnsci.com www.flinnsci.com
P.O. Box 219 Batavia IL 60510
(800) 452-1261 Fax (866) 452-1436