



## SODIUM COBALTINITRITE

### 1. Product Identification

Synonyms: Sodium hexanitrocobaltate (III); trisodium hexanitrocobaltate

CAS No.: 13600-98-1

Molecular Weight: 403.94

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

Product Codes: 39094, A-39034

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Sodium Cobaltinitrite	13600-98-1	90 - 100%

### 3. Hazards Identification

Potential Health Effects

**Inhalation:** Causes irritation to the respiratory tract, symptoms may include coughing, shortness of breath, and nausea. Respiratory hypersensitivity, asthma may appear. Inhalation of cobalt dust and fumes is associated with an increased incidence of lung disease.

**Ingestion:** Toxic. Causes abdominal pain, nausea, vomiting, flushing of the face and ears, mild hypotension, rash, and ringing in the ears. May have cumulative toxic action where elimination cannot keep pace with absorption. Large amounts depress erythrocyte production.

**Skin Contact:** Causes irritation to skin. Symptoms include redness, itching, and pain. May cause dermatitis.

**Eye Contact:** Causes irritation, redness, and pain.

**Chronic Exposure:** Repeated oral administration may produce goiter and reduced thyroid activity.

Prolonged or repeated skin exposure may cause dermatitis. Chronic exposure associated with kidney, heart and lung damage. Exposure to nitrates cause methemo globinemia

**Aggravation of Pre-existing Conditions:** Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

Persons with stomach diseases and infants are much more sensitive to nitrate ion toxicity. Persons with allergies or sensitivity to cobalt may also be more susceptible to the effects of the substance.

### 4. First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact:** Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.



Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)  
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)  
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)  
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Website : www.technopharmchem.com

#### 5. Fire Fighting Measures

Fire: Not combustible, but substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

Explosion: Contact with oxidizable substances may cause extremely violent combustion. Decomposition can be vigorous enough to burst containers.

Fire Extinguishing Media: Water spray, carbon dioxide, or dry powder.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

#### 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors. Containers of this material may be hazardous when empty since they retain product residues.

#### 8. Exposure Controls/Personal Protection

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls are not feasible, a half-face high efficiency particulate respirator (NIOSH type N100 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece high efficiency particulate respirator (NIOSH type N100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

#### 9. Physical and Chemical Properties

Appearance: Fine, yellow orange powder.

Odor: Odorless.

Solubility: Very soluble in water.

Specific Gravity: No information found.

pH: No information found.

% Volatiles by volume @ 21C (70F): 0

Boiling Point: Not applicable.

Melting Point: No information found.

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information

The information contained herein is in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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#### 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Oxides of nitrogen and toxic metal fumes may form when heated to decomposition.

Hazardous Polymerization: This substance does not polymerize.

Incompatibilities: Substance may react violently with some organic compounds or reducing agents.

Conditions to Avoid: Incompatibles.

#### 11. Toxicological Information

Toxicological Data: Investigated as a reproductive effector.

Carcinogenicity: Cobalt and its compounds have been shown to cause cancer in laboratory animals.

#### 12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

#### 13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

#### 14. Transport Information

Land

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Proper Shipping Name: SODIUM COBALTINITRIDE

Hazard Class: 5.1

UN/NA: UN1479

Packing Group: II

Information reported for product/size: 500G

Water

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Hazard Class: 5.1

UN/NA: UN1479

Packing Group: II

Information reported for product/size: 500G

#### 15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No

Reactivity: No (Pure / Solid)

#### 16. Other Information

Product Use:

Laboratory Reagent