




EMERGENCY NUMBERS:

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(CAN) Anachemia : 1(514) 489-5711

WHMIS	Protective Clothing	TDG Road/Rail
WHMIS CLASS: C D-2A		TDG CLASS: 5.1 PIN: UN2627 PG: II
		

Section I. Product Identification and Uses

Product name	SODIUM COBALTINITRITE	CI#	Not available.
Chemical formula	Na ₃ Co(NO ₂) ₆	CAS#	13600-98-1
Synonyms	Sodium hexanitrocobaltate, Sodium nitrocobaltate(III), Trisodium hexanitrocobaltate, Trisodium hexanitritocobaltate(III), AC-8323, 82064	Code	AC-8323
Supplier	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Formula weight	403.94
		Supersedes	
Material uses	For laboratory use only.		

Section II. Ingredients

Name	CAS #	%	TLV
1) SODIUM COBALTINITRITE	13600-98-1	60-100	Exposure limits: ACGIH (Cobalt and inorganic compounds (as Co)) TWA 0.02 mg(Co)/m ³

Toxicity values of the hazardous ingredients

 SODIUM COBALTINITRITE:
 LD50: Not available.
 LC50: Not available.

Section III. Physical Data

Physical state and appearance / Odor	Odorless yellow to yellow-brown powder.
pH (1% soln/water)	Not available.
Odor threshold	Not available.
Percent volatile	0% at 21°C
Freezing point	Not available.
Boiling point	Not available.
Specific gravity	Not available.
Vapor density	Not applicable.
Vapor pressure	0
Water/oil dist. coeff.	Not available.
Evaporation rate	Not applicable.
Solubility	Easily soluble in cold water.

Section IV. Fire and Explosion Data

Flash point	Not available.
Flammable limits	Not available.
Auto-ignition temperature	Not available.
Fire degradation products	Oxides of cobalt, nitrogen and sodium.
Fire extinguishing procedures	Use flooding quantities of water. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode. Cool containing vessels with flooding quantities of water until well after fire is out.
Fire and Explosion Hazards	Powerful oxidizing agent; may ignite oxidizable materials. Contributes to combustion of other materials. Container explosion may occur under fire conditions or when heated. Contact with other material may cause fire and/or explosion. When contaminated, it is very sensitive. Contact with other material may form shock, heat or friction sensitive mixtures. This material in powder form is capable of creating a dust explosion. Emits toxic and corrosive fumes under fire conditions.

Section V. Toxicological Properties

Routes of entry	Inhalation and ingestion. Eye contact. Skin contact.
Effects of Acute Exposure	Harmful by ingestion, inhalation or skin absorption. Irritant. 20 mg (Co)/m3 is immediately dangerous to life or health. Exposure to and/or consumption of alcohol may increase toxic effects.
Eye	Causes irritation with redness and pain.
Skin	Causes skin irritation. May cause allergic skin reaction.
Inhalation	Material is irritating to mucous membranes and upper respiratory tract. Exposure can cause coughing, chest pains, and difficulty in breathing. May cause sensitization by inhalation. May cause delayed lung injury. See ingestion.
Ingestion	Causes gastrointestinal irritation. May cause nausea, vomiting, diarrhea, dizziness, abdominal pain, hypotension, tachycardia, tinnitus, methemoglobinemia, cyanosis, headache, convulsions, coma and possibly death.

Section V. Toxicological Properties

Effects of Chronic Overexposure May cause allergic skin and respiratory reaction (asthma-like reaction). May cause coughing, chest pains, difficulty in breathing, methemoglobinemia with cyanosis, polycythemia, polyglobulia, cardiopathy, gastrointestinal troubles (irritation, pain, diarrhea, vomiting), lung damage (fibrosis-pneumoconiosis), cardiovascular damage (heart damage, vascular dilation, tachycardia, pain, tissue damage, failure), nerve damage (loss of sense of smell and hearing), thyroid damage (goiter, function change, hypothyroidism), kidney damage, and pancreas damage. Overall IARC evaluation of carcinogenic risk: group 2B (possibly carcinogenic to humans (cobalt salts)). Medical conditions which may be aggravated: Individuals with preexisting diseases of the heart or respiratory system may be more susceptible to the toxicity of overexposure to this product. Passes through the placental barrier in animal. Mutagenic effects: Not available. Excreted in maternal milk in human. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section VI. First Aid Measures

Eye contact Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Call a physician.

Skin contact Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing.

Inhalation Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Call a physician.

Ingestion If conscious, wash out mouth with water. Have conscious person drink several glasses of water to dilute. Induce vomiting by either giving IPECAC syrup or by placing finger at back of throat. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

Section VII. Reactivity Data

Stability Stable. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.

Hazardous decomp. products Not available.

Incompatibility Reducing agents, oxidizable materials, acids, organic materials, aldehydes, amines, aluminum salts, cyanides, combustible materials.

Reaction Products Contact with other material may cause fire and/or explosion. Aqueous solutions are unstable. Hazardous polymerization will not occur.

Section VIII. Preventive Measures

SODIUM COBALTINITRITE

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Protective Clothing in case of spill and leak Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Spill and leak Spills of sodium cobaltinitrite must be promptly removed. Evacuate and ventilate the area. Eliminate all sources of ignition. Sweep up and place in container for disposal. Avoid raising dust. Use non-sparking tools. Wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch damaged container or spilled material. Avoid contact with a combustible material (wood, paper, oil, clothing...).

Waste disposal According to all applicable regulations. May be harmful to aquatic life. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Storage and Handling Do not store near organic or flammable substances. Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe dust. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Avoid raising dust. Use non-sparking tools. Empty containers may contain a hazardous residue. Handle and open container with care. Minimize dust generation and exposure - use dust mask or appropriate protection. Take off immediately all contaminated clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible.). Avoid contact with a combustible material (wood, paper, oil, clothing...). May catch fire in contact with combustible materials.

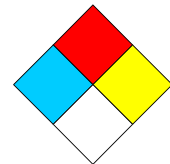
Section IX. Protective Measures

Protective clothing Splash goggles. Impervious gloves, apron, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. A OSHA/MSHA jointly approved respirator is advised in the absence of proper environmental controls. If more than TLV, do not breathe vapor. Wear self-contained breathing apparatus. Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

Engineering controls Use in a chemical fume hood to keep airborne levels below recommended exposure limits. Do not use in unventilated spaces.

Section X. Other Information

Special Precautions or comments Powerful oxidizing agent; may ignite oxidizable materials. Sensitizer! Possible carcinogen! Harmful solid! Irritant! Do not breathe dust. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. Keep away from heat, sparks and flame. Use non-sparking tools. Contact with other material may cause fire and/or explosion. When contaminated, it is very sensitive. Contact with other material may form shock, heat or friction sensitive mixtures. Handle and open container with care. Container should be opened only by a technically qualified person. Synergistic materials: Exposure to and/or consumption of alcohol may increase toxic effects. Cross sensitization with nickel and chromium. RTECS NO: GF9480000 (Sodium cobaltinitrite).



NFPA

Prepared by MSDS Department/Département de F.S..

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