

# SAFETY DATA SHEET

Creation Date 26-Sep-2009	Revision Number 5	
	1. Identification	
Product Name	Sodium hexanitrocobaltate(III)	
Cat No. :	AC214860000; AC214860050; AC21486025 AC214865000	i0; AC214861000;
CAS-No Synonyms	13600-98-1 Sodium cobaltinitrite	
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use	
Details of the supplier of the sa	fety data sheet	
<u>Company</u> Fisher Scientific	Acros Organics	

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids	Category 2
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

### Label Elements

Signal Word Danger

### Hazard Statements

May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause respiratory irritation Suspected of causing cancer



### Precautionary Statements Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

Wear protective gloves/protective clothing/eye protection/face protection

## Response

IF exposed or concerned: Get medical attention/advice

### Inhalation

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing **Skin** 

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

# Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Trisodium hexanitritocobaltate	13600-98-1	>95	

# 4. First-aid measures

### **General Advice**

If symptoms persist, call a physician.

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Inhalation	Move to fresh air. Obtain medical attention. If not breathing, give artificial respiration.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects Notes to Physician	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing Treat symptomatically
	5. Fire-fighting measures
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature	

Autoignition Temperature	
Explosion Limits	
Upper	No data available
Lower	No data available
Oxidizing Properties	Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

May ignite combustibles (wood paper, oil, clothing, etc.). Oxidizer: Contact with combustible/organic material may cause fire.

### **Hazardous Combustion Products**

Nitrogen oxides (NOx) Cobalt oxides.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 2	Flammability 1	Instability 2	Physical hazards OX	
	6. Accidental re	lease measures		
	· · · · · · · · · · · · · · · · · · ·			
Up	and shovel into suitable co		rt absorbent material. Sweep up	
L Handling	Wear personal protective skin, or on clothing. Avoid	equipment. Ensure adequate ve ingestion and inhalation. Avoid	entilation. Do not get in eyes, on dust formation. Keep away from ash contaminated clothing before	

### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials.

# 8. Exposure controls / personal protection

# Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Trisodium	TWA: 0.02 mg/m <sup>3</sup>			
hexanitritocobaltate	-			

### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tightly fitting safety goggles.
Skin and body protection	Long sleeved clothing.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

9. Physica	r and chemical properties	
Physical State	Solid	
Appearance	Amber	
Odor	Odorless	
Odor Threshold	No information available	
рН	5 100g/L aq sol (20°C)	
Melting Point/Range	220 °C / 428 °F	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	Not applicable	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	Not applicable	
Specific Gravity	No information available	
Solubility	No information available	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature		
Decomposition Temperature	No information available	
Viscosity	Not applicable	
Molecular Formula	Co N6 Na3 O12	
Molecular Weight	403.94	
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# 10. Stability and reactivity

Reactive Hazard	Yes
Stability	Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Combustible material.
Incompatible Materials	Strong oxidizing agents, Strong acids, Reducing agents, Amines, Strong reducing agents, Combustible material
Hazardous Decomposition Product	<b>s</b> Nitrogen oxides (NOx), Cobalt oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product   Component Information Toxicologically Synergistic   Toxicologically Synergistic No information available   Products Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Irritation	Irritating to eyes, respiratory system and skin
Sensitization	No information available

Carcinogenicity

Limited evidence of a carcinogenic effect.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Trisodium hexanitritocobaltate	13600-98-1	Not listed	Reasonably Anticipated	A3	Not listed	Not listed
ACGIH: (American Conference of Governmental Industrial Hygienists) ACGIH: (American Conference of Governmental Industrial Hygienists) A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen A3 - Animal Carcinogen ACGIH: (American Conference of Governmental Industrial Hyg				lustrial Hygienists)		
Mutagenic Effects		No information ava	,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Reproductive Effects	5	No information available.				
Developmental Effec	ts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expose STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects, delayed	both acute and	<b>d</b> Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing				
Endocrine Disruptor	Information	No information available				
Other Adverse Effect	s	The toxicological properties have not been fully investigated.				
		12. Ecol	ogical infor	mation		

### **Ecotoxicity**

Do not empty into drains. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	based on information available. May persist
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a

ethods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

DOT	
UN-No	UN1479
Proper Shipping Name	OXIDIZING SOLID, N.O.S.
Proper technical name	Trisodium hexanitritocobaltate
Hazard Class	5.1
Packing Group	II
TDG	
UN-No	UN1479
Proper Shipping Name	OXIDIZING SOLID, N.O.S.
Hazard Class	5.1
Packing Group	II
IATA	
UN-No	UN1479
Proper Shipping Name	OXIDIZING SOLID, N.O.S.
Hazard Class	5.1
Packing Group	II
IMDG/IMO	
UN-No	UN1479
Proper Shipping Name	OXIDIZING SOLID, N.O.S.
Hazard Class	5.1
Packing Group	II
	15. Regulatory information
	res regulatory mornation

All of the components in the product are on the following Inventory lists: X = listed

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Trisodium	-	-	-	237-077-7	-		Х	-	Х	Х	Х
hexanitritocobaltate											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants

that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)

Not applicable

#### SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Trisodium hexanitritocobaltate	13600-98-1	>95	0.1

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

#### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Trisodium hexanitritocobaltate	Х		-

**OSHA** Occupational Safety and Health Administration Not applicable

### CERCLA

Not applicable

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

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Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Trisodium	-	Х	Х	Х	-
hexanitritocobaltate					

### **U.S.** Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### Other International Regulations

Mexico - Grade	No information available			
	16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	26-Sep-2009 19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text