

Material Safety Data Sheet

Version:01 Revision Date 22/5/2025

Section 1. Product Information and Company Identification					
Product name	Sodium Cobalt Nitrite				
Mol. formula	Na3Co (NO2)6 CAS No. 136000-98-1				
Mol.wt	403.94 g/mol				
Manufacturer name	Pioneers for laboratory chemicals				
Brand name	Piochem				
Address	Area 540, Industrial Zone 6 th October city Giza, Egypt.				
Website	www.piochem.com				
E-mail	info@piochem.com				
Phone number	+201225728304 , +201023932115				

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Oxidizing solids (Category 2), H272 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319

Respiratory sensitisation (Category 1), H334

Skin sensitisation (Category 1), H317 Carcinogenicity (Category 2), H351

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word

Hazard statement(s)

H272 May intensify fire; oxidizer.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Danger





H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

Precautionary statement(s)

P220 Keep/Store away from clothing/ combustible materials.

P261 Avoid breathing dust. P280 Wear protective gloves.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Supplemental Hazard

Statements

none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Sodium hexanitritocobaltate(III)

Sodium cobaltnitrite

Formula : Na₃Co(NO₂)₆

Molecular weight : 403.94 g/mol
CAS-No. : 13600-98-1
EC-No. : 237-077-7

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

Trisodium hexanitritocobaltate

CAS-No. 13600-98-1 Ox. Sol. 2; Skin Irrit. 2; Eye <= 100 %

EC-No. 237-077-7 Irrit. 2; Resp. Sens. 1; Skin

Sens. 1; Carc. 2; STOT SE 3; H272, H315, H319, H334,

H317, H351, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

ſ	R/D-SOP-001-F02	Page 2 of 7	Issue Date: 03/11/2024	Effective Date:03/12/2024	Review Date: 03/12/2027	Issue No. 01
---	-----------------	-------------	------------------------	---------------------------	-------------------------	--------------



4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Sodium oxides, Cobalt/cobalt oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel.\'20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition

- No smoking. Keep away from heat and sources of ignition.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

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

Storage class (TRGS 510): Oxidizing hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

R/D-SOP-001-F02 Page 3 of 7 Issue Date: 03/11/202	4 Effective Date:03/12/2024	Review Date: 03/12/2027	Issue No. 01
---	-------------------------------	-------------------------	--------------



Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

		•	•		•	•	
a)	Appearance			Form: powder			

Colour: dark yellow

b) Odour No data available

c) Odour Threshold No data available

d) pH No data available

e) Melting point/freezing

point

Melting point/range: 220 °C - dec.

f) Initial boiling point and

boiling range

No data available

g) Flash point Not applicable

h) Evaporation rate No data available

i) Flammability (solid, gas) No data available

j) Upper/lower flammability or explosive limits No data available

k) Vapour pressure No data availablel) Vapour density No data available

m) Relative densityNo data availablen) Water solubilityNo data available

o) Partition coefficient: noctanol/water No data available

p) Auto-ignition temperature

No data available

q) Decomposition temperature

No data available

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties The substance or mixture is classified as oxidizing with the category 2.

9.2 Other safety information

No data available

R/D-SOP-001-F02 Page 4 of 7 Issue Date: 03/11/2024 Effective Date: 03/12/20	4 Review Date: 03/12/2027 Issue No. 01
---	--



SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong acids, Organic materials, Reducing agents, Amines

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sodium oxides, Cobalt/cobalt oxides Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available Trisodium hexanitrito cobaltate

Inhalation: No data available (Trisodium hexanitritocobaltate)

Skin corrosion/irritation

No data available(Trisodium hexanitritocobaltate)

Serious eye damage/eye irritation

No data available(Trisodium hexanitritocobaltate)

Respiratory or skin sensitisation

No data available(Trisodium hexanitritocobaltate)

Germ cell mutagenicity

No data available(Trisodium hexanitritocobaltate)

Carcinogenicity

Limited evidence of a carcinogenic effect. (Trisodium hexanitritocobaltate)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Trisodium hexanitritocobaltate)

Reproductive toxicity

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation. (Trisodium hexanitritocobaltate)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Trisodium hexanitritocobaltate)

Additional Information

RTECS: GF9480000

prolonged or repeated exposure can cause:, Asthma, Lung irritation, Benign pneumoconiosis., Cough, Difficulty in breathing, Liver injury may occur., Neurotoxic effects., Gastrointestinal disturbance, Vomiting, Diarrhoea(Trisodium hexanitritocobaltate)

SECTION 12: Ecological information

12.1 Toxicity

No data available



Persistence and degradability

No data available

12.3 **Bioaccumulative potential**

No data available

12.4 Mobility in soil

No data available (Trisodium hexanitritocobaltate)

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 1479 IMDG: 1479 IATA: 1479

14.2 UN proper shipping name

ADR/RID: OXIDIZING SOLID, N.O.S. (Trisodium hexanitritocobaltate) IMDG: OXIDIZING SOLID, N.O.S. (Trisodium hexanitritocobaltate)

IATA: Oxidizing solid, n.o.s. (Trisodium hexanitritocobaltate)

14.3 Transport hazard class(es)

ADR/RID: 5.1 IMDG: 5.1 IATA: 5.1

14.4 **Packaging group**

ADR/RID: II IMDG: II IATA: II

14.5 **Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidizer.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation

R/D-SOP-001-F02	Page 6 of 7	Issue Date: 03/11/2024	Effective Date:03/12/2024	Review Date: 03/12/2027	Issue No. 01
	I and o or i	IBBUC DUTC. OC/II/202.	211000110 2 40010011212021	110 110 11 2 41001 00/12/2021	10001



H351

Suspected of causing cancer.