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Creation Date: 01-03-2025

Revision Date: 15-07-2030

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Sodium cobaltinitrite Product Code: S 1845 CAS No : 13600-98-1

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email <u>info@ottokemi.com</u>

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Oxidizing solids, (Category 2) Skin irritation, (Category 2) Eye irritation, (Category 2) Respiratory sensitization, (Category 1)

Skin sensitization, (Category 1) Carcinogenicity, (Category 2) Specific target organ toxicity single exposure, (Category 3), Respiratory system 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H272 H315 H317 H319 H334 H272: May intensify fire; oxidizer. H315: Causes skin irritation. H319: Causes serious eye irritation. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317: May cause an allergic skin reaction. H351: Suspected of causing cancer.

H335: May cause respiratory irritation.

Danger

| 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. |
| H351 | Suspected of causing cancer. |
| Precautionary Statements | |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. |
| | Remove contact lenses, if present and easy to do. Continue |

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| | rinsing. |
|--|---|
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| Supplemental Hazard | none |
| Statements | |
| Reduced Labeling (<= 125 ml) | |
| Pictogram | |
| Signal Word | Danger |
| Hazard Statements | C C C C C C C C C C C C C C C C C C C |
| H334 | May cause allergy or asthma symptoms or breathing difficulties |
| | if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| Precautionary Statements | |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face |
| | protection. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| Supplemental Hazard | none |
| Statements | |
| 2.3 Other hazards | |
| This substance/mixture contains no components considered | to be either persistent, |
| bioaccumulative and toxic (PBT), or very persistent and very | |
| levels of 0.1% or higher. | |
| Ecological information: | |
| The substance/mixture does not contain components consid | ered to have endocrine |
| disrupting properties according to REACH Article 57(f) or Co | mmission Delegated regulation |
| (EU) 2017/2100 or Commission Regulation (EU) 2018/605 a | t levels of 0.1% or higher. |
| Toxicological information: | |
| The substance/mixture does not contain components consid | ered to have endocrine |
| disrupting properties according to REACH Article 57(f) or Co | mmission Delegated regulation |
| (EU) 2017/2100 or Commission Regulation (EU) 2018/605 a | t levels of 0.1% or higher. |
| | |
| SECTION 3: Composition/information on ingredients | |
| 3.1 Substances | |

3.1 Substances Synonyms : Sodium hexanitritocobaltate(III) Sodium cobaltnitrite Formula : CoN6Na3O12 Molecular weight : 403,94 g/mol CAS-No. : 13600-98-1 EC-No. : 237-077-7

| Component | Classification | Concentration |
|--|---|---------------|
| sodium hexanitrocobaltate(III); sodium cobalt(III)-initrite | | |
| CAS-No. 13600-98-1 EC-No. 237-077-7 | Ox. Sol. 2; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; Skin Sens. 1; Carc. 2; STOT SE 3; H272, H315, H319, H334, H317, H351, H335 | <= 100 % |

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
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled
After inhalation: fresh air. Call in physician.
In case of skin contact

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In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician. In case of eye contact After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses. If swallowed After swallowing: immediately make victim drink water (two glasses at most). 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 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 extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given. 5.2 Special hazards arising from the substance or mixture Sodium oxides Cobalt/cobalt oxides Not combustible. Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapours. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. **SECTION 6: Accidental release measures** 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. 6.2 Environmental precautions Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage**

7.1 Precautions for safe handling Advice on safe handling Work under hood. Do not inhale substance/mixture. Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions

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Tightly closed. Keep locked up or in an area accessible only to gualified or authorized persons. Do not store near combustible materials. Storage class Storage class (TRGS 510): 5.1B: 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 Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Body Protection protective clothing Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state powder b) Color dark yellow c) Odor No data available d) Meltina Melting point/range: 220 °C - dec. point/freezing point e) Initial boiling point No data available and boiling range f) Flammability (solid,

The product is not flammable.

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gas)

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g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition temperature k) pH l) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature) 10.3 Possibility of hazardous reactions Violent reactions possible with: Amines mineral acids organic combustible substances Reducing agents 10.4 Conditions to avoid no information available 10.5 Incompatible materials No data available 10.6 Hazardous decomposition products In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:
Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg
Inhalation LC50 Rat: > 50mg/L.
Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.
Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).
Special Remarks on Toxicity
to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

12.1 Toxicity No data available 12.2 Persistence and degradability

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No data available

Not applicable No data available

No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available No data available No data available

No data available No data available No data available No data available

No data available

No data available The substance or mixture is classified as oxidizing with the category 2.

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| This substance/miz bioaccumulative an levels of 0.1% or h 12.6 Endocrine dis Product: | T and vPvB assessment kture contains no components considere nd toxic (PBT), or very persistent and ver igher. rupting properties | ry bioaccumulative (vPvB) at | | | |
|---|---|--|------------|--|--|
| Assessment | : The substance/mixture does not conta considered to have endocrine disruptin according to REACH Article 57(f) or Co Delegated regulation (EU) 2017/2100 of Regulation (EU) 2018/605 at levels of 0 | ng properties ommission or Commission | | | |
| 12.7 Other adverse No data available | | 2440 | | | |
| SECTION 13: Dis 13.1 Waste treatm No data available | oosal considerations ent methods | | A. | | |
| SECTION 14: Trai | nsport information | | | | |
| 14.1 UN number | | | | | |
| ADR/RID: 1479 | | IMDG: 1479 | IATA: 1479 | | |
| 14.2 UN proper sh | pping name | averitrasshaltata (III), aadium aahalt (III) | | | |
| ADR/RID | | nexanitrocobaltate(III); sodium cobalt(III)- | | | |
| IMDG | initrite) : OXIDIZING SOLID, N.O.S. (sodium h initrite) | nexanitrocobaltate(III); sodium cobalt(III)- | | | |
| IATA : Oxidizing solid, n.o.s. (sodium hexanitrocobaltate(III); sodium cobalt(III)- initrite) | | | | | |
| 14.3 Transport haz | | | | | |
| ADR/RID: 5.1 | | IMDG: 5.1 | IATA: 5.1 | | |
| 14.4 Packaging gro | oup | | | | |
| ADR/RID: II | | IMDG: II | IATA: II | | |
| 14.5 Environmenta | Il hazards | | | | |
| ADR/RID: no | | IMDG Marine pollutant: no | IATA: no | | |
| 14.6 Special precautions for user | | | | | |
| Tunnel restriction code : (E) | | | | | |
| Further information | n : No data available | | | | |
| | utetamy information | | | | |
| | ulatory information and environmental regulations/legislation | on specific for the | | | |
| substance or mixtu | | | | | |
| This material safety data sheet complies with the requirements of Regulation (EC) No. | | | | | |
| 1907/2006. | | | | | |
| National legislation | I | | | | |
| | e 2012/18/EU of the | | | | |
| | ent and of the Council | | | | |
| | ajor-accident hazards | | | | |
| involving dangerou P8 OXIDISING LIC | | | | | |
| SOLIDS | LOIDS AND | | | | |
| Other regulations | | | | | |
| Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or | | | | | |
| stricter national regulations where applicable. | | | | | |
| Take note of Dir $9\overline{4}/33/EC$ on the protection of young people at work. | | | | | |
| 15.2 Chemical Safety Assessment | | | | | |
| For this product a chemical safety assessment was not carried out | | | | | |
| | | | | | |

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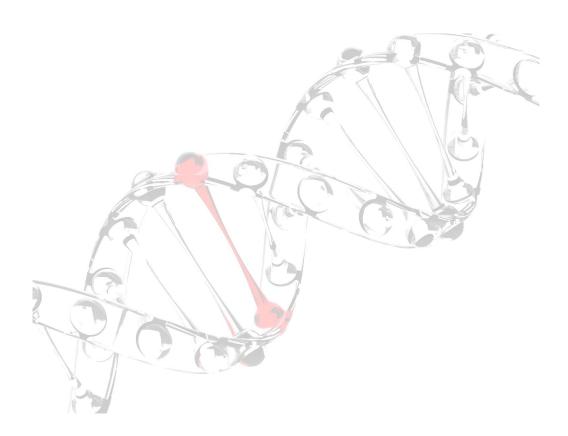
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SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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