

MATERIAL SAFETY DATA SHEET**Product Name:** Nickel(II)chloride anhydrous**CAS No.:** 7718-54-9**Version:** 0**1. Identification**

Product Code : 90468
Company Name : Advent Chembio Private Limited
Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail : info@adventchembio.com
WEBSITE : www.adventchembio.com
Company Phone Number : 022-27690837

2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 3
Acute toxicity, Inhalation : Category 3
Skin irritation : Category 2
Respiratory sensitisation : Category 1
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 2
Carcinogenicity, Inhalation : Category 1 A
Reproductive toxicity : Category 1 B
Specific target organ toxicity - repeated exposure : Category 1
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

Label elements**Hazard symbol**

Signal word : Danger
Hazard statement : Toxic if swallowed or if inhaled
Causes skin irritation.
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Suspected of causing genetic defects.
May cause cancer by inhalation.
May damage the unborn child.
Causes damage to organs through prolonged or repeated

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- Precautionary statement**
- exposure.
 - Very toxic to aquatic life with long lasting effects.
 - : Obtain special instructions before use.
 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
 - Wear respiratory protection.
 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.
 - IF exposed or concerned: Get medical advice/ attention.
 - Store in a well-ventilated place. Keep container tightly closed.
- Supplemental Hazard Statements**
- : None.

3. Composition/information on ingredients

Ingredient	CAS No
Nickel(II)chloride anhydrous	7718-54-9

4. First Aid Measures**Description of first aid measures**

- General advice**
- Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation**
- : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact**
- : Wash off with soap and plenty of water. Consult a physician.
- Eye contact**
- : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Swallowed**
- : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed**
- : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed Treatment**
- : No data available

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- controls** practice. Wash hands before breaks and at the end of workday.
- Personal protective equipment**
- Eye/face protection** : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin Protection Hand protection** : 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** : Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : Yellow or Orange hygroscopic powder or chunks
- Odor** : No data available
- pH** : No data available
- Melting point/freezing point** : 1.001 °C
- Initial boiling point and boiling range** : 973 °C
- Flash Point** : No data available
- Vapor pressure** : No data available
- Vapor density** : No data available
- Relative density** : 3.55 g/mL at 25 °C
- Solubility in water** : 642 g/l at 20 °C 876 g/l at 100 °C
- Solubility (other)** : No data available
- Formula** : Cl₂Ni
- Molecular Weight** : 129.60 g/mol

10. Stability and Reactivity

- Reactivity** : No data available
- Chemical stability** : Stable under recommended storage conditions.
- Possibility of hazardous reactions** : No data available
- Conditions to avoid** : No data available
- Incompatible materials** : Peroxides
- Hazardous decomposition products** : No data available

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- Acute toxicity** : No data available
- Skin corrosion/irritation** : No data available
- Serious eye damage/eye irritation** : Severe eye irritation
- Respiratory or skin sensitization** : May cause allergic skin reaction.
- Germ cell mutagenicity** : In vitro tests showed mutagenic effects
- Carcinogenicity** : Human carcinogen.
- Reproductive toxicity** : Presumed human reproductive toxicant.
- Specific target organ toxicity - single exposure** : No data available
- Specific target organ toxicity - repeated exposure** : Causes damage to organs through prolonged or repeated exposure.
- Aspiration hazard** : No data available
- Signs and Symptoms of Exposure** : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

- Toxicity** : Toxicity to fish mortality NOEC - Oncorhynchus mykiss (rainbow trout) - 4,9 mg/l - 96,0 h
Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 6,0 - 9,3 mg/l - 48 h
Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - 0,006 - 0,012 mg/l – 96h
- Persistence and degradability** : No data available.
- Bioaccumulative potential** : Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 180 d
- 1.000 µg/l Bioconcentration factor (BCF): 4
- Mobility in soil** : No data available.
- Other adverse effects** : Very toxic to aquatic life with long lasting effects.

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Disposal instructions : Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging : Dispose of as unused product.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	3288	Nickel(II) chloride	6.1	III	YES
IMDG	3288	Nickel(II) chloride	6.1	III	YES
IATA	3288	Nickel(II) chloride	6.1	III	YES

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date** :01/08/2014**Version** : 0

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PRODUCT(S).