

MATERIAL SAFETY DATA SHEET

Product Name: Nickel(II) sulfate hexahydrate

CAS No.: 10101-97-0

Version: 0

1. Identification

Product Code : 90471
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 4
 Acute toxicity, Inhalation : Category 4
 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

Hazard statement

: Danger
 : Harmful 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

MATERIAL SAFETY DATA SHEET

Product Name: Nickel(II) sulfate hexahydrate

CAS No.: 10101-97-0

Version: 0

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) sulfate hexahydrate	10101-97-0

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

MATERIAL SAFETY DATA SHEET**Product Name:** Nickel(II) sulfate hexahydrate**CAS No.:** 10101-97-0**Version:** 0**5. Fire fighting measures****Extinguishing media****Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**Special hazards arising from the substance or mixture** : Sulphur oxides, Nickel/nickel oxides**Advice for firefighters** : Wear self contained breathing apparatus for fire fighting if necessary**Further information** : No data available**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.**Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.**Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.**Reference to other sections** : For disposal see section 13.**7. Handling and Storage****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.**Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.**Specific end use(s)** : No data available**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****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.

MATERIAL SAFETY DATA SHEET**Product Name:** Nickel(II) sulfate hexahydrate**CAS No.:** 10101-97-0**Version:** 0**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** : Emerald green crystals or crystalline powder.
- Odor** : No data available
- pH** : No data available
- Melting point/freezing point** : No data available
- Initial boiling point and boiling range** : No data available
- Flash Point** : No data available
- Vapor pressure** : No data available
- Vapor density** : No data available
- Relative density** : 2.07 g/cm³
- Solubility in water** : No data available
- Solubility (other)** : No data available
- Formula** : NiO₄S · 6H₂O
- Molecular Weight** : 262.85 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** : Strong oxidizing agents
- Hazardous decomposition products** : No data available

MATERIAL SAFETY DATA SHEET**Product Name:** Nickel(II) sulfate hexahydrate**CAS No.:** 10101-97-0**Version:** 0**11. Toxicological Information****Information on toxicological effects**

Acute toxicity	: LD50 Oral - rat - 361 mg/kg
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: No data available
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: In vitro tests showed mutagenic effects
Carcinogenicity	: Human carcinogen.
Reproductive toxicity	: Presumed human reproductive toxicant May damage the unborn child.
Specific target organ toxicity - single exposure	: No data available
Specific target organ toxicity - repeated exposure	: Inhalation - 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	: No data available
Persistence and degradability	: No data available.
Bioaccumulative potential	: No data available
Mobility in soil	: No data available.
Other adverse effects	: Very toxic to aquatic life with long lasting effects.

13. Disposal consideration

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.

MATERIAL SAFETY DATA SHEET**Product Name:** Nickel(II) sulfate hexahydrate**CAS No.:** 10101-97-0**Version:** 0**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	3077	Nickel sulphate hexahydrate	9	III	YES
IMDG	3077	Nickel sulphate hexahydrate	9	III	YES
IATA	3077	Nickel sulphate hexahydrate	9	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**

Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).