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MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL NITRATE AR (HEXAHYDRATE)

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : NICKEL NITRATE AR (HEXAHYDRATE)

Product code : N0144000500

Identification of the product : NICKEL NITRATE AR(HEXAHYDRATE) 99%
 CAS No: 13478-00-7

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 SUVCHEM
 Chaitanya Tower, 2nd Floor, Office # 206,
 Siddharth Nagar, S.V. Road,
 Goregaon (West), Mumbai - 400062,
 Maharashtra, India.
 Contact: +91 22 28725393 / 94 / 95
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : T; R48/23
 Xn; R20/22
 Xi; R38-41
 Xn ; R42/43
 N; R50-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400

2.2. Label elements

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL NITRATE AR (HEXAHYDRATE)
2. Hazards identification -DSD (continued)
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

 : O : Oxidizing
 : T : Toxic

R Phrase(s)

 : R49 : May cause cancer by inhalation.
 : R61 : May cause harm to the unborn child.

R20/22 : Harmful by inhalation and if swallowed.

R38 : Irritating to skin.

R41 : Risk of serious damage to eyes.

R42/43 : May cause sensitization by inhalation and skin contact.

R48/23 : Toxic : danger of serious damage to health by prolonged exposure through inhalation.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68 : Possible risks of irreversible effects.

S Phrase(s)

 : S53 : Avoid exposure - obtain special instructions before use.
 : S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
 : S60 : This material and its container must be disposed of as hazardous waste.
 : S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Warning

Hazard statements

 : H302 : Harmful if swallowed.
 : H332 : Harmful if inhaled.
 : H400 : Very toxic to aquatic life.

Precautionary statements
• Prevention

 : P271: Use only outdoors or in a well-ventilated area.
 : P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
 : P273: Avoid release to the environment.
 : P264: Wash thoroughly after handling.
 : P270: Do not eat, drink or smoke when using this product.

• Response

 : P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
 : P391: Collect spillage.
 : P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL NITRATE AR (HEXAHYDRATE)
2. Hazards identification -DSD (continued)

- comfortable for breathing.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

- Substance / Preparation** : NICKEL NITRATE AR(HEXAHYDRATE) 99%
- Substance.
- Contains no other components or impurities which will influence the classification of the product.

4. First aid measures
4.1. Description of first aid measures

- Inhalation** : Assure fresh air breathing. Allow the victim to rest. Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- Ingestion** : Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms relating to use** : Danger of serious damage to health by prolonged exposure through inhalation. Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

- General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL NITRATE AR (HEXAHYDRATE)
5. Fire-fighting measures
5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.
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5.3. Advice for fire-fighters

Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.
For non-emergency personnel	: Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.
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6.3. Methods and material for containment and cleaning up

Clean up methods	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
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6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL NITRATE AR (HEXAHYDRATE)
7. Handling and storage (continued)

- Handling** : Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.
- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

- Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

- Specific end use(s)** : None.

8. Exposure controls/personal protection
8.1. Exposure controls

- Personal protection** : Avoid all unnecessary exposure.
- **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
 - **Hand protection** : Wear protective gloves.
 - **Eye protection** : Chemical goggles or safety glasses.
 - **Others** : When using, do not eat, drink or smoke.

8.2. Control parameters

- Occupational Exposure Limits** : No data available.

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

- Physical state at 20 °C** : Solid.
- Colour** : Green crystals
- Odour** : Odorless
- Odour threshold** : No data available.
- pH value** : Not applicable.
- Melting point [°C]** : 56 °C
- Decomposition point [°C]** : N/A
- Critical temperature [°C]** : N/A

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL NITRATE AR (HEXAHYDRATE)
9. Physical and chemical properties (continued)

Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 1370C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm ³]	: 2,05
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 238.5g/100cc water @
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 3.5 - 5.5
Viscosity at 40°C [mm ² /s]	: N/A

9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

10. Stability and reactivity
10.1. Reactivity.

Reactivity	: Not established.
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10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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10.4. Conditions to avoid

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL NITRATE AR (HEXAHYDRATE)
10. Stability and reactivity (continued)

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

11. Toxicological information
11.1. Information on toxicological effects
Acute toxicity

- **Inhalation** : Harmful if inhaled.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Harmful if swallowed.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information
12.1. Toxicity

Toxicity information : Very toxic to aquatic life.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL NITRATE AR (HEXAHYDRATE)
12. Ecological information (continued)
12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations
13.1. Waste treatment methods

 General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information
14.1. Land transport (ADR-RID)

 Proper shipping name : NICKEL NITRATE
 UN N° : 2725
 H.I. nr : 50
 ADR - Class : 5.1
 Labelling - Transport : 5.1 : Oxidizing substances.

 ADR - Classification code : O2
 ADR - Group : III
 ADR - Packing instructions : P002 R001 LP002
 ADR - Limited Quantity : 5 KG

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14. Transport information (continued)

ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : NICKEL NITRATE
 UN N° : 2725
 IMO-IMDG - Class or division : 5.1 : Oxidizing substances.
 IMO-IMDG - Packing group : III
 IMO-IMDG - Packing instructions : P002 LP02
 IMO-IMDG - Limited quantities : 5 kg
 IMO-IMDG - Marine pollution : Yes
 EMS-Nr : F-A S-Q

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : NICKEL NITRATE
 UN N° : 2725
 IATA - Class or division : 5.1 : Oxidizing substances.
 IATA - Packing group : III
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing : 559
 instruction
 - Passenger and Cargo - Maximum : 25 kg
 Quantity/Packing
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 563
 - Cargo only - Maximum Quantity/ : 100 kg
 Packing
 IATA - Limited Quantities : 10 kg
 ERG-Nr : 5L

15. Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental : Ensure all national/local regulations are observed.
 regulations/legislation specific for the
 substance or mixture

MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL NITRATE AR (HEXAHYDRATE)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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