

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
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MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL NITRATE LR (HEXAHYDRATE)

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

1.1. Product identifier

Trade name : NICKEL NITRATE LR (HEXAHYDRATE)

Product code : N0144205000

Identification of the product : NICKEL NITRATE EXTRA PURE (HEXAHYDRATE) 98%
 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 LR (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

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MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL NITRATE LR (HEXAHYDRATE)

2. Hazards identification -DSD (continued)

- **Disposal considerations** : comfortable for breathing.
 : 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 EXTRA PURE (HEXAHYDRATE) 98%

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. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
- 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).

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NICKEL NITRATE LR (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 LR (HEXAHYDRATE)
7. Handling and storage (continued)

- Handling** : Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product.
- 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 LR (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 LR (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.

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NICKEL NITRATE LR (HEXAHYDRATE)

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.

13.1. Waste treatment methods

<p>General</p>	<p>: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.</p> <p>Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</p>
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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 O2
ADR - Group	: III
ADR - Packing instructions	: P002 R001 LP002
ADR - Limited Quantity	: 5 KG
ADR - Tunnel code	: E : Passage forbidden through tunnels of category E.

MATERIAL SAFETY DATA SHEET (MSDS)
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14. Transport information (continued)

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 instruction : 559
 - Passenger and Cargo - Maximum Quantity/Packing : 25 kg
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 563
 - Cargo only - Maximum Quantity/Packing : 100 kg
 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 regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL NITRATE LR (HEXAHYDRATE)

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

DISCLAIMER:

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