

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL CHLORIDE LR (HEXAHYDRATE)

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

1.1. Product identifier

Trade name : NICKEL CHLORIDE LR (HEXAHYDRATE)

Product code : N0143800500

Identification of the product : NICKEL CHLORIDE EXTRA PURE (HEXAHYDRATE) 97%
 CAS No: 7791-20-0

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; R23/25-R48/23
 Xi; R38
 Xn ; R42/43
 N; R50-53

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

Health hazards : Specific Target Organ Toxicity - Single exposure - Category 2 - Warning (CLP : STOT SE 2) H371
 Specific Target Organ Toxicity - Repeated exposure - Category 1 - Danger (CLP : STOT RE 1) H372
 Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334
 Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
 Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301

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

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400
 Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (CLP : Aquatic Chronic 1) H410

2.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

: T : Toxic
 N : Dangerous for the environment

R Phrase(s)

: R49 : May cause cancer by inhalation.
 R61 : May cause harm to the unborn child.
 R23/25 : Toxic by inhalation and if swallowed.
 R38 : Irritating to skin.
 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

: Danger

Hazard statements

: H301 : Toxic if swallowed.
 H331 : Toxic if inhaled.
 H315 : Causes skin irritation.
 H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 : May cause an allergic skin reaction.
 H372 : Causes damage to organs through prolonged or repeated exposure.
 H371 : May cause damage to organs.
 H410 : Very toxic to aquatic life with long lasting effects.

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL CHLORIDE LR (HEXAHYDRATE)
2. Hazards identification -DSD (continued)
Precautionary statements
• Prevention

: P285: In case of inadequate ventilation wear respiratory protection.
 P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P271: Use only outdoors or in a well-ventilated area.
 P260: Do not breathe 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.
 P272: Contaminated work clothing should not be allowed out of the workplace.

• Response

: P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.
 P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 P309+P311: IF exposed or if you feel unwell : Call a POISON CENTER or doctor.
 P391: Collect spillage.
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
 P333+P313: If skin irritation or rash occurs : Get medical advice.
 P342+P311: If experiencing respiratory symptoms : Call a POISON CENTER or doctor.
 P363: Wash contaminated clothing before reuse.
 P314: Get medical advice if you feel unwell.

• Storage

: P403+P233: Store in well-ventilated place. Keep container tightly closed.
 P405: Store locked up.

• 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 CHLORIDE EXTRA PURE (HEXAHYDRATE) 97%

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

: Remove to fresh air and keep at rest in a position comfortable for breathing.
 Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. If experiencing respiratory symptoms :

MATERIAL SAFETY DATA SHEET (MSDS)
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4. First aid measures (continued)

Skin contact	: If skin irritation or rash occurs : Wash contaminated clothing before reuse. Wash with plenty of soap and water. Get medical advice. Specific treatment (see on this label).
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	: Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. 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. Causes damage to organs through prolonged or repeated exposure. Swallowing a small quantity of this material will result in serious health hazard. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause damage to organs.
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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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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.

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL CHLORIDE LR (HEXAHYDRATE)
6. Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : Equip cleanup crew with proper protection.
 Ventilate area.
 Avoid breathing dust, fume, gas, mist, vapours, spray.
- 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.

6.3. Methods and material for containment and cleaning up

- Clean up methods** : On land, sweep or shovel into suitable containers. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

- Personal protection** : Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
- Handling** : Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust, fume, gas, mist, vapours, spray. 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 tightly closed.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

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

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL CHLORIDE LR (HEXAHYDRATE)
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. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of inadequate ventilation wear respiratory protection.
• Hand protection	: Wear protective gloves.
• Skin protection	: Wear suitable protective clothing.
• 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.
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9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Colour	: Apple green crystalline
Odour	: Odorless
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 10010C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
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	: 1 mm Hg @ 6710C
Vapour density	: N/A
Density [g/cm3]	: 3,55
Relative density, gas (air=1)	: N/A

MATERIAL SAFETY DATA SHEET (MSDS)**NICKEL CHLORIDE LR (HEXAHYDRATE)****9. Physical and chemical properties (continued)**

Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 2.54 kg/L @ 200C
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 4
Viscosity at 40°C [mm2/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

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

Materials to avoid	: Strong acids. Strong bases.
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10.6. Hazardous decomposition products

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide.
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MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL CHLORIDE LR (HEXAHYDRATE)
11. Toxicological information
11.1. Information on toxicological effects
Acute toxicity

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

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

Irritation : Causes skin irritation.

Sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

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 : Causes damage to organ.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

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 with long lasting effects.

12.2. Persistence - degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

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

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MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL CHLORIDE LR (HEXAHYDRATE)
12. Ecological information (continued)

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.

Special precautions : Hazardous waste due to toxicity.

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

Proper shipping name : TOXIC SOLID, INORGANIC, N.O.S.
UN N° : 3288
H.I. nr : 60
ADR - Class : 6.1
Labelling - Transport : 6.1 : Toxic substances.



ADR - Classification code : T5
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.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : TOXIC SOLID, INORGANIC, N.O.S.
UN N° : 3288
IMO-IMDG - Class or division : 6.1 : Toxic substances.

MATERIAL SAFETY DATA SHEET (MSDS)
NICKEL CHLORIDE LR (HEXAHYDRATE)
14. Transport information (continued)

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-A

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

Proper shipping name	: TOXIC SOLID, INORGANIC, N.O.S.
UN N°	: 3288
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: III
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 670
- Passenger and Cargo - Maximum Quantity/Packing	: 100 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 677
- Cargo only - Maximum Quantity/Packing	: 200 kg
IATA - Limited Quantities	: 10 kg
ERG-Nr	: 6L

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.
REACH Restrictions - Annex XVII	: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment	: It has not been carried out.
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16. Other information

Revision	: Revision - See : *
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MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL CHLORIDE LR (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.
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