

MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL SULPHATE LR (HEXAHYDRATE)

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

1.1. Product identifier

Trade name : NICKEL SULPHATE LR (HEXAHYDRATE)

Product code : N0144805000

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

CAS No: 10101-97-0

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

SUVCHEM Company identification 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]

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 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

Skin sensitisation - Category 1 - Warning (CLP: Skin Sens. 1) H317 Respiratory sensitization - Category 1 - Danger (CLP: Resp. Sens. 1) H334

Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315

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



MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL SULPHATE 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) : Xn : Harmful

N: Dangerous for the environment

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.

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.

<u>Labelling Regulation EC 1272/2008 (CLP)</u>

Hazard pictograms







Signal words : Danger

Hazard statements : H302 : Harmful if swallowed.

H315: Causes skin irritation.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.

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 SULPHATE 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 : P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel

unwell.

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 : 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 SULPHATE 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 : If experiencing respiratory symptoms : Remove to fresh air and keep at rest in a

position comfortable for breathing. Call a POISON CENTER or doctor if you feel

unwell.



MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL SULPHATE LR (HEXAHYDRATE)

4. First aid measures (continued)

Skin contact : Specific treatment (see on this label). Get medical advice. Wash with plenty of soap

and water. Wash contaminated clothing before reuse. If skin irritation or rash

occurs:

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you

feel unwell.

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

Symptoms relating to use : Causes damage to organs through prolonged or repeated exposure.

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.

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).

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.

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 SULPHATE 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 : Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours,

spray. Do not eat, drink or smoke when using this product.

Handling : Avoid breathing dust, fume, gas, mist, vapours, spray. Wash contaminated clothing

before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust, fume, gas, mist, vapours, spray. Use only outdoors

or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or

smoke when using this product. 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.



MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL SULPHATE 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
 Eye protection
 Others
 Wear suitable protective clothing.
 Chemical goggles or safety glasses.
 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 : Emerald green crystalline

Odour : Odorless

Odour threshold: No data available.pH value: Not applicable.

Melting point [°C] : 1000C **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 : N/A Vapour density : N/A Density [g/cm3] : 2.03 Relative density, gas (air=1) : N/A



MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL SULPHATE LR (HEXAHYDRATE)

9. Physical and chemical properties (continued)

Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : 75.6 g/100 cc water

Solubility in water : N/A

Log Pow octanol / water at 20°C: No data available.

Solubility : 4.5 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.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

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.



MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL SULPHATE LR (HEXAHYDRATE)

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 : 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



MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL SULPHATE 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.

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.

IMO-IMDG - Packing group : |||



MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL SULPHATE LR (HEXAHYDRATE)

14. Transport information (continued)

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 : 67

instruction

- Passenger and Cargo - Maximum : 100 kg

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 677- Cargo only - Maximum Quantity/ : 200 kg

Packing

IATA - Limited Quantites : 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: Ensure all national/local regulations are observed.

regulations/legislation specific for the

substance or mixture

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.

16. Other information

Revision - See : *

Abbreviations and acronyms: PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Page: 10



MATERIAL SAFETY DATA SHEET (MSDS)

NICKEL SULPHATE LR (HEXAHYDRATE)

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

DISCLAIMER:

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- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
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