	SAFETY DATA SHEET (SDS)	
	NICKEL SULPHATE HEXAHYDRATE	
	Document #: SCIL-SDS-14	Issue Date: 01-Jan-23
	Revision: 0	Next Rev: 31-Dec-27

1. IDENTIFICATION

1.1 Product identifier:	Nickel Sulphate hexahydrate
Synonym(s):	Nickel (II) sulphate hexahydrate
Reach No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS No.	10101-97-0
EC No.	232-104-9
Index-No.	028-009-00-5
1.2 Recommended use:	Laboratory chemicals, Manufacture of substances.
1.3 Details of the supplier of the Safety data sheet Manufacturer	
Company Name	Sitara Chemical Industries Ltd.
Address:	32-K.M, Sheikhpura Road, Faisalabad.
Telephone Number:	(+92) 041-4689141-5
Emergency Number	(+92) 041-4689141-5 (Ext.1161)
Website	http://www.sitara.com.pk

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or Mixture.	
Classification according to Regulation (EC) No 1272/2008	
Classification according to Regulation (EC) No 1272/2008	
Acute toxicity, Oral (Category 4)	H302
Acute toxicity, Inhalation (Category 4)	H332 Skin irritation (Category 2), H315
Respiratory sensitization (Category 1)	H334
Skin sensitization (Category 1)	H317
Germ cell mutagenicity (Category 2)	H341
Carcinogenicity (Category 1A)	H350
Reproductive toxicity (Category 1B)	H360D
Specific target organ toxicity - repeated exposure, Inhalation (Category 1), Respiratory Tract,	H372
Short-term (acute) aquatic hazard (Category 1),	H400
Long-term (chronic) aquatic hazard (Category 1),	H410
For the full text of the H-Statements mentioned in this Section, see Section 16	

2.2 Label Elements

Labelling according to Regulation (EC) 1272/2008


Pictogram



Signal word: Danger

Hazard statement(s):

H302 + H332	Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects.
H350	May cause cancer.

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H360D May damage the unborn child.
H372 Causes damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Supplemental Hazard Statements: None

2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.


3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name of substance : Nickel (II) Sulphate hexahydrate
Formula : NiSO₄ · 6H₂O
Molecular weight : 262,85 g/mol
CAS- No. : 10101-97-0
EC-No. : 232-104-9

Component	Classification	Concentration
Nickel sulphate hexahydrate		
CAS-No. 10101-97-0 EC-No. 600-152-3 Index-No. 028-009-00-5	Acute Tox. 4; Skin Irrit. 2; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Carc. 1A; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H332, H315, H334, H317, H341, H350, H360D, H372, H400, H410 Concentration limits: >= 1 %: STOT RE 1, H372; 0,1 - < 1 %: STOT RE 2, H373; >= 20 %: Skin Irrit. 2, H315; >= 0,01 %: Skin Sens. 1, H317; M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 1	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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4. FIRST AID MEASURES

4.1 Description of first-aid measures

- General advice:** Show this material safety data sheet to the doctor in attendance.
- If inhaled:** After inhalation: fresh air. Immediately.
- In case of skin contact:** Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- In case of eye contact:** After eye contact: rinse out with plenty of water. Immediately call-in ophthalmologist. Remove contact lenses
- If swallowed:** After swallowing, immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: for this substance/mixture no limitations of extinguishing agents are given

5.2 Special hazards arising from the substance or mixture

Sulphur oxides

Nickel/nickel oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel:

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.


6.4 Reference to other sections:

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling. Work under hood. Do not inhale substance/mixture.

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Hygiene measures: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters.

8.2 Exposure controls

Personal protective equipment

Eye/face protection: Use safety goggle with side protection.

Skin protection: Handle with gloves. Wash and dry hands.

Body Protection: Wear protective clothing

Respiratory protection: Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387

Recommended Filter type: Filter type P3

Other: Wear suitable protective clothing.

Control of environmental exposure:

Do not let product enter drains.


9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Form: crystalline
Color:	Blue
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
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility in water:	Soluble at 20 °C
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available
Viscosity: Viscosity, kinematic / dynamic	No data available
Explosive properties	No data available
Oxidizing properties,	No data available

9.2 Other safety information:

No data available

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10. Chemical Stability & Reactivity Information


- 10.1 Reactivity:** No data available
- 10.2 Chemical Stability:** The product is chemically stable under standard ambient conditions.
- 10.3 Possibility of hazardous reactions:** Increased reactivity with Strong acids
- 10.4 Conditions to avoid:** No information available
- 10.5 Incompatible Materials:** No data available
- 10.6 Hazardous Decomposition Products:** In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- Acute toxicity:**
 Acute toxicity No data available
 LD50 Oral - Rat - 361,9 mg/kg
 (OECD Test Guideline 425)
 Remarks: anhydrous substance
 Acute toxicity estimate Inhalation - 4 h - 1,6 mg/l (Expert judgment)
 Dermal: No data available
 Skin corrosion/irritation No data available
Serious eye damage/eye irritation No data available
Respiratory or skin sensitisation Maximization Test - Guinea pig May cause allergic skin reaction.
Germ cell mutagenicity
 In vitro tests showed mutagenic effects Suspected of causing genetic defects. Test type
 Mutagenicity (mammal cell test): Result: positive
Carcinogenicity: No data available
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 No data available
 Inhalation - Causes damage to organs through prolonged or repeated exposure. -
 Respiratory Tract
Aspiration hazard No data available
- 11.2 Additional Information**
 Not available
 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity:** No data available
- 12.2 Persistence and degradability** No data available.
- 12.3 Bio accumulative potential:** No data available
- 12.4 Mobility in soil:** No data available
- 12.5 Results of PBT and vPvB assessment**
 According to the results of its assessment, this substance is not a PBT or a vPvB.
- 12.6 Other adverse effects:**
 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Discharge into the environment must be avoided.

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Sewage disposal-relevant information:	Do not empty into drains.
Waste treatment of containers/packaging's:	Handle contaminated packages in the same way as the substance itself.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 3077	IMDG: 3077	IATA: 3077
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14.2 UN proper shipping name

ADR/RID:	NICKEL SULPHATE HEXAHYDRATE
IMDG:	NICKEL SULPHATE HEXAHYDRATE
IATA:	NICKEL SULPHATE HEXAHYDRATE

14.3 Transport hazard class (es)

ADR/RID: 9	IMDG: 9	IATA: 9
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14.4 Packaging group

ADR/RID: III	IMDG: III	IATA: III
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14.5 Environmental hazards

ADR/RID: Yes,	IMDG Marine pollutant: Yes	IATA: yes
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14.6 Special precautions for user: No data available

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing inner packaging with Dangerous Goods > 5L for liquids or > 5kg for solids

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.

15.2 Chemical Safety Assessment:

For this product a chemical safety assessment was not carried out

16. LABELING INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer:

All information given in this data sheet by the company's technical staff is compiled based on data available at this time. The company accepts no responsibility whatsoever for its accuracy or for any results which may be obtained by customers. Any customer who relies upon any advice or information given in this data sheet by the company or by its technical staff does so entirely at its own risk and the company will not be liable for any loss or damage thereby suffered notwithstanding any want of care on the part of the company or its staff in compiling or giving the advice or information.