

SAFETY DATA SHEET

NICKEL SULPHATE LAB

1. Identification of the substance/preparation and of the company or firm

- 1.1 Identification of the substance or preparation:
 Catalogue no. : KA832
 Product name : NICKEL SULPHATE LAB
- 1.2 Use of the substance/preparation: For laboratory utilisation, analysis, research and fine chemistry.
- 1.3 Identification of the company or firm: Elago Enterprises Pty Ltd, 5 The Cloisters, Cherrybrook, N.S.W. 2126, Australia
 Tel no. (61) 2 98998169
 Fax no. (61) 2 98997976
- 1.4 Emergency telephone: (61) 2 98998169 (9:00am - 5:00 pm) [Office hours]

2. Identification of dangers

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

- 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

Classification EC 67/548 or EC 1999/45

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.

Signal words : Danger.

Hazard pictograms



Hazard statements :

- H302+H332: Harmful if swallowed or 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.
 H341: Suspected of causing genetic defects.
 H350i: May cause cancer by inhalation.
 H360D: May damage the unborn child.
 H372: Causes damage to organs through prolonged or repeated exposure.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P273 Avoid release to the environment.
 P201 Obtain special instructions before use.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P308+P313 IF exposed or concerned: Get medical advice/attention.

Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Substance / Preparation: Nickel sulfate 100%
Formular: NiSO₄·6H₂O
CAS No : 10101-97-0
EC No : 232-104-9

Contains no other components or impurities which will influence the classification of the product.

4. First-aid measures

- 4.1 General indications: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- 4.2 Inhaling: If breathing stops: mouth-to-mouth respiration or mechanical ventilation, oxygen mask if necessary. Immediately call a physician.
- 4.3 Contact with the skin: Wash with plenty of water. Remove contaminated clothing.
- 4.4 Eyes: Wash with plenty of water, keeping eyelids open. Seek medical assistance.
- 4.5 Ingestion: Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.
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5. Fire-fighting measures

- 5.1 Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- 5.2 Unsuitable extinguishing media : Do not use a heavy water stream.
- 5.3 Surrounding fires : Use water spray or fog for cooling exposed containers.
- 5.4 Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
- 5.5 Advice for firefighters: Suitable clothing and footwear including respiratory protection.
Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
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6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Avoid contact with the skin, eyes or clothing.
- 6.2 Environmental precautions: Avoid pollution of the soil, water supplies and drains. Avoid release to the environment.
- 6.3 Methods and material for containment and cleaning up: Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation.
- 6.4 Reference to other sections : See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
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7. Handling and storage

- 7.1 Handling: Do not eat, drink or smoke when using this product. 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.
- 7.2 Storage: Well sealed containers. In well ventilated premises. Away from sources of ignition and heat.
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8. Exposure controls/personal protection

- 8.1 Exposure controls: Avoid all unnecessary exposure.
- 8.2 Control parameters: Data not available.
- 8.3 Respiratory protection: If dust forms, respiratory protection equipment is recommended.
- 8.4 Hand protection: Use suitable gloves
- 8.5 Eye/face protection: Use suitable goggles.
- 8.6 Individual hygiene measures: Remove contaminated clothing. Wash hands and face before breaks and when the job is done.
Vacuum clean contaminated clothing. Do not blow or brush off contamination.
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9. Physical and chemical properties

Appearance: Solid.

Colour: Green crystals

Odour: Odourless.

pH value (100 g/l at 20 °C): 4.3-4.7

Melting Point: No data available.

Boiling Point: No data available.

Flash point: No data available.

Flammability (solid, gas) : No data available.

Evaporation rate : No data available.

Vapour pressure (20°C):	No data available.
Vapour density :	No data available.
Density (20 °C):	2.07 g/cm ³
Solubility (20 °C):	625 g/l
Relative density, gas (air=1) :	No data available.
Viscosity:	No data available.

10. Stability and reactivity

- 10.1 Reactivity : Not established.
 - 10.2 Chemical stability: No specific data.
 - 10.3 Hazardous reactions: Not established.
 - 10.4 Conditions which should be avoided: The product is chemically stable under standard ambient conditions (room temperature).
 - 10.5 Incompatible materials: No specific data.
 - 10.6 Hazardous decomposition products: Sulphur oxides.
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11. Toxicological information

- 11.1 Acute toxicity: Oral LD50 264 mg/kg (rat)
 - 11.2 Dangerous effects for health:
 - Ingestion: Harmful if swallowed.
 - Inhalation: Harmful if inhaled.
 - Dermal: Based on available data, the classification criteria are not met.
 - Irritation: Causes skin irritation.
 - Carcinogenicity: Based on available data, the classification criteria are not met.
 - Corrosion: Based on available data, the classification criteria are not met.
 - Mutagenicity: 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.
 - Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
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12. Ecological information

- 12.1 Toxicity: Very toxic to aquatic life with long lasting effects.
 - 12.2 Persistence and Degradability: May cause long-term adverse effects in the environment.
 - 12.3 Bioaccumulative potential: Not established.
 - 12.4 Mobility in soil: Not established.
 - 12.5 Assessment PBT and MPMB: 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 possible effects on the environment: Avoid release to the environment.
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13. Disposal considerations

- Disposal considerations: 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 : Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.
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14. Transport information

- 14.1 Overland (ADR):
 - Technical name: TOXIC SOLID, INORGANIC, N.O.S. (Nickel sulfate), ENVIRONMENTALLY HAZARDOUS
 - UN 3288 Class: 6.1 Packaging group: III (E)
 - 14.2 By sea (IMDG):
 - Technical name: TOXIC SOLID, INORGANIC, N.O.S. (Nickel sulfate), MARINE POLLUTANT
 - UN 3288 Class: 6.1 Packaging group: III
 - 14.3 By air (ICAI-IATA):
 - Technical name: TOXIC SOLID, INORGANIC, N.O.S. (Nickel sulfate)
 - UN 3288 Class: 6.1 Packaging group: III
 - Packaging instructions: CAO 677 PAX 670
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15. Regulatory information

- 5.1 Regulatory Information: Ensure all national/local regulations are observed.
- 5.2 Poisons Schedule: Not Scheduled.

16. Other Information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008
on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and
1999/45/EC, and amending Regulation (EC) No 1907/2006
Review number and date: v. 1.0
Date published: 7-Jan-2016
Further information : None.

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

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