

SAFETY DATA SHEET

LEAD (II) NITRATE AR/ACS

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

1.1 Identification of the substance or preparation:

Catalogue no. : KA280

Product name : Lead (II) Nitrate AR/ACS

Synonym: Lead Nitrate

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 : 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

Classification EC 67/548 or EC 1999/45

Symbol(s) O : Oxidizing

T : Toxic

N : Dangerous for the environment

R Phrase(s) R20/22 : Harmful by inhalation and if swallowed.

R33 : Danger of cumulative effects.

R41 : Risk of serious damage to eyes.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61 : May cause harm to the unborn child.

R62 : Possible risk of impaired fertility.

S Phrase(s) S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 : Wear eye/face protection.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

S53 : Avoid exposure - obtain special instructions before use.

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 : Harmful if swallowed.

H332 : Harmful if inhaled.

H400 : Very toxic to aquatic life.

Precautionary statements:

Prevention:

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

Response:

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

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P391: Collect spillage

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.

3. Composition/information on ingredients

Substance / Preparation: Lead (II) Nitrate \leq 100%

Formular: $\text{Pb}(\text{NO}_3)_2$

CAS No : 10099-74-8
EC No : 233-245-9
Molecular weight : 331.21

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

4. First-aid measures

- 4.1 General indications: Never provide drink or induce vomiting in the event of loss of consciousness.
- 4.2 Inhaling: Take the person out into the fresh air. In the event sickness persists, seek medical assistance.
- 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.
- 4.5 Ingestion: Rinse mouth. Induce vomiting. Seek immediate medical assistance.

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 Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
 - 5.6 Special procedures :Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
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6. Accidental release measures

- 6.1 Individual precautions: Do not inhale the dust.
 - 6.2 Precautions for care of the environment: Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.
 - 6.3 Methods for collection/cleaning: Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.
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7. Handling and storage

- 7.1 Handling: Ensure good ventilation and renewal of the air in the premises. Handle with caution.
 - 7.2 Storage: Well sealed containers.Keep away from flammable substances, sources of ignition and heat.Room temperature.
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8. Exposure controls/personal protection

- 8.1 Exposure limit control: No special indications. Avoid exposure during handling and transfer.
 - 8.2 Respiratory protection: If dust forms, use suitable respiratory protection.
 - 8.3 Hand protection: Use suitable gloves.
 - 8.4 Eye protection: Use safety glasses.
 - 8.5 Individual hygiene measures: Remove contaminated clothing. Wash hands before breaks and when the job is done.
 - 8.6 Environmental exposure controls: Fulfill the commitments under local environmental protection legislation.
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9. Physical and chemical properties

- Appearance: Solid.
 - Colour: White crystalline powder.
 - Odour: Odorless.
 - pH value: No data available.
 - Melting Point: 205 °C
 - Boiling Point: No data available.
 - Flash point: No data available.
 - Flammability (solid, gas) : No data available.
 - Evaporation rate : No data available.
 - Vapour pressure: No data available.
 - Vapour density : 11
 - Solubility: 525 g/l in water (20 °C)
 - Density: 4.53
 - Relative density, liquid (water=1) : No data available.
 - Partition coefficient: n-octanol/water: No data available.
 - Viscosity: No data available.
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10. Stability and reactivity

- 10.1 Conditions which should be avoided: The product is chemically stable under standar ambient conditions (room temperature).
- 10.2 Incompatible materials: Strong acids. Strong bases.
- 10.3 Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.
- 10.4 Chemical stability: Vigorous oxidizing agent. Risk of explosion of dust.

11. Toxicological information

- 11.1 Acute toxicity: LD L0 oral guinea pig : 500 mg/kg
LD L0 oral gpg : 500 mg/kg
LD50 ipr mus : 74 mg/kg
- 11.2 Dangerous effects for health:
- Ingestion: Harmful if swallowed.
Inhalation: Harmful if inhaled
Skin: Based on available data, the classification criteria are not met.
Eye: Based on available data, the classification criteria are not met.
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.
Sensitization: Based on available data, the classification criteria are not met.
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12. Ecological information

- 12.1 Toxicity: Very toxic to aquatic life.
12.2 Persistence and Degradability: Biodegradable.
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.
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14. Transport information

- 14.1 Overland (ADR):
Technical name: LEAD NITRATE
UN 1469 Class: 5.1 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: II '(E)
- 14.2 By sea (IMDG):
Technical name: LEAD NITRATE
UN 1469 Class: 5.1 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: II
- 14.3 By air (ICAI-IATA):
Technical name: Lead nitrate
UN 1469 Class: 5.1 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: II
Packaging instructions: CAO 562 PAX 558
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15. Regulatory information

- 5.1 Regulatory Information: Ensure all national/local regulations are observed.
5.2 Poisons Schedule: Not Scheduled.
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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: 19-Sep-2011
Further information : None.
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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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