

# SAFETY DATA SHEET (SDS)


## Lead (II) nitrate, 0.1M

Issue date: 27-07-2020

### Section 1: Product Identifier and Chemical Identity

|   |   |
|---|---|
| Product Identifier                                      |   |
| Product Name:   | Lead (II) nitrate, 0.1M                                   |
| Product Codes:  | MC91.14, MC92.14  |
| Other means of identification:                          |   |
| External product name and code/s:                       | Pb(NO <sub>3</sub> ) <sub>2</sub> (aq)                    |
| Recommended use of the chemical and restrictions on use |   |
| Recommended Use:  | For laboratory use only.                                  |
| Suppliers name, address and phone number                |   |
| Suppliers Name:   | Southern Biological                                       |
| Suppliers ABN:  | 94 630 703 810  |
| Suppliers Address:                                      | 1/44 Rushdale Street<br>Knoxfield Victoria 3180 Australia |
| Suppliers Phone No.:                                    | 1300 138 561  |
| Suppliers Fax No.:                                      | +613 9753 3896  |
| Emergency Phone number (BH)                             | 1300 138 561  |

### Section 2: Hazard Identification

|  |   |
|--|---|
| Classification of the Hazardous Chemical |   |
| Hazard Category                          | Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1B, Reproductive Toxicity Category 1A, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2, Hazardous to the aquatic environment - Acute Category 2, Hazardous to the aquatic environment - Chronic Category 2 |
| Label elements                           |   |
| Hazard Pictograms:                       |   |
| Signal Word:                             | Danger  |
| Hazard Statements:                       | Causes serious eye irritation<br>May damage fertility or the unborn child<br>May damage organs through prolonged or repeated exposure<br>Toxic to aquatic life<br>HIGHLY TOXIC; CUMULATIVE POISON; MAY DAMAGE FERTILITY AND THE UNBORN CHILD.   |

|                                     |  |
|-------------------------------------|--|
| Precautionary Statements:           | <p><b>Prevention</b><br/>Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest.</p> <p><b>Response</b><br/>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br/>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Skin<br/>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.<br/>IF SWALLOWED: call a poison centre or doctor if you feel unwell.</p> |
| Other Hazards                       |  |
| Results of PBT and vPvB assessment: | <p>PBT: Not applicable<br/>VPvB: Not applicable</p>  |

### Section 3: Composition/information on ingredients

| Ingredients       |            |            |   |
|-------------------|------------|------------|---|
| Name              | CAS        | Proportion | Hazard Class  |
| Lead (II) nitrate | 10099-74-8 | 3.3%       | Solid:<br>Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1B, Reproductive Toxicity Category 1A, Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment - Chronic Category 1, Oxidizing Solid Category 2, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2, Acute Toxicity - Inhalation Dust / Mist Category 4, Acute Toxicity - Oral Category 4 |
| Water             | 7732-18-5  | 96.7%      | None  |

### Section 4: First Aid Measures

| General Information   |   |
|---|---|
| After Inhalation:   | IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms; Call a doctor.                             |
| After skin contact:   | Rinse skin with water/shower. If skin irritation occurs: get medical advice/ attention.   |
| After eye contact:  | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, consult a doctor. |
| After swallowing:   | Rinse mouth. Seek medical advice and show container, label or SDS.  |
| Information for doctor:   |   |
| Most important symptoms and effects both acute and delayed:                 | Treat symptomatically.  |
| Indications of any immediate medical attention and special treatment needed | No further relevant information available.  |

## Section 5: Firefighting measures

|   |   |
|---|---|
| Extinguishing media                                   |   |
| Suitable extinguishing agents:                        | Use media suitable to extinguish surrounding fire.  |
| Special hazards arising for the substance or mixture: | Fire or excessive heat may produce hazardous decomposition products.                            |
| Advice for firefighters                               |   |
| Protective equipment:                                 | Do not enter the fire area without proper protective equipment including respiratory equipment. |

## Section 6: Accidental release measures

|  |   |
|--|---|
| General Information  |   |
| Personal precautions, protective equipment and emergency procedures: | Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Isolate area. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during cleanup. Use an inert absorbent such as sand or vermiculite. Place in properly labelled closed container. Collect spillage. |
| Environmental precautions:   | Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not flush spill to drain.   |
| Methods and material for containment and cleaning up:                | Dispose of contaminating material as waste according to item 13.<br>Ensure adequate ventilation.  |
| Reference to other sections:   | See Section 7 for information on safe handling.<br>See Section 8 for information on protective equipment.<br>See Section 13 for disposal information.   |

## Section 7: Handling and Storage

|                                |   |
|--------------------------------|---|
| General Information            |   |
| Precautions for safe handling: | Ensure good ventilation/exhaustion at the workplace.<br>Do not eat drink or smoke when using this product. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and inhaling dust.<br>Retained residue may make empty containers hazardous; use caution. |

|   |  |
|---|--|
| Information about fire – and explosion protection:            | No special measures required.  |
| Conditions for safe storage, including any incompatibilities. |  |
| Storage:  | Store in cool dry area out of direct sunlight and incompatible materials. Keep containers closed when not in use in a cool, well-ventilated place. Store in suitably labelled containers. Store separately in a secured area |
| Requirements to be met by storerooms and receptacles:         | No special requirements.   |
| Information about storage in one common storage facility:     | Not required.  |
| Further information about storage conditions:                 | Keep container tightly sealed. Keep out of direct sunlight.  |
| Specific end use(s):  | No further relevant information available.   |

## Section 8: Exposure controls/personal protection.

|  |  |
|--|--|
| General information  |  |
| Additional information about design of technical facilities:                         | No further data: see section 7   |
| Control parameters:  |  |
| Ingredients with limit values that require monitoring at the workplace: not required |  |
| Exposure Controls:   |  |
| General protective and hygienic measures:  | Use only in systems, processes and procedures in which effective ventilation has been provided.<br>Keep away from foodstuffs, beverages and food.<br>Immediately remove all soiled and contaminated clothing<br>Wash hands before breaks and at the end of work.<br>Avoid contact with eyes.<br>Keep eyewash fountain nearby |
| Respiratory protection:  | No data available  |
| Clothing / Foot-wear and equipment   | No special requirements.   |
| Protection of hands:   | PVC or rubber gloves   |
| Eye protection:  | Tightly sealed goggles   |
| Skin protection:   | Laboratory Coat  |

## Section 9: Physical and chemical properties

|                      |                   |
|----------------------|-------------------|
| Appearance:          |                   |
| Form:                | Liquid            |
| Colour:              | Clear             |
| Odour:               | No data available |
| Odour Threshold:     | No data available |
| pH value:            | No data available |
| Change in Condition: |                   |

|  |   |
|--|---|
| Melting point/Melting range:             | No data available                         |
| Boiling point/Boiling range:             | No data available                         |
| Flash point:                             | No data available                         |
| Flammability (solid / gaseous)           | No data available                         |
| <b>Ignition Temperature</b>              |   |
| Decomposition temperature:               | No data available                         |
| Self-igniting:                           | No data available                         |
| Danger of explosion:                     | No data available                         |
| <b>Explosion limits</b>                  |   |
| Lower:                                   | No data available                         |
| Upper:                                   | No data available                         |
| Vapour pressure:                         | No data available                         |
| Density:                                 | No data available                         |
| <b>General Info</b>                      |   |
| Relative density:                        | No data available                         |
| Vapour density:                          | No data available                         |
| Evaporation rate:                        | No data available                         |
| Solubility in / Miscibility with water:  | Miscible                                  |
| Partition coefficient (n-octanol/water): | No data available                         |
| Viscosity:                               | No data available                         |
| Other information:                       | No further relevant information available |

## Section 10: Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                                 |   |
| General   | No further relevant information available.                                    |
| <b>Chemical Stability</b>                         |   |
| Thermal decomposition / conditions to be avoided: | Stable under normal conditions  |
| Possibility of hazardous reactions:               | No dangerous reactions known.   |
| Conditions to avoid:                              | None known.   |
| Incompatible materials:                           | Water-reactive materials, metals (powdered), strong reducing agents, organics |
| Hazardous decomposition products:                 | Toxic gases   |

## Section 11: Toxicological information

Information on toxicological effects

|   |                   |
|---|-------------------|
| Inhalation, ingestion, eye or skin contact. | No data available |
| <b>Primary irritant effect:</b>             |                   |
| Inhalation, ingestion, and skin contact.    | No data available |
| Possibility of hazardous reactions:         | Not classified    |
| Conditions to avoid:                        | Not classified    |
| <b>Chronic Toxicity:</b>                    |                   |
| General                                     | Not classified    |

## Section 12. Ecological information

|   |  |
|---|--|
| <b>Toxicity</b>                           |  |
| Aquatic toxicity:                         | Toxic to aquatic life                      |
| Persistence and degradability:            | No data available                          |
| <b>Behaviour in environmental systems</b> |  |
| Bio-accumulative potential:               | No further relevant information available. |
| Mobility in soil:                         | No further relevant information available. |
| <b>Additional ecological information</b>  |  |
| Results of PBT and vPvB assessment        | PBT: No data<br>vPvB: No data              |
| Other adverse effects:                    | No further relevant information available. |

## Section 13. Ecological information

|                                |  |
|--------------------------------|--|
| <b>Waste treatment methods</b> |  |
| Recommendation                 | Prevent this material from entering waterways, drains and sewers.<br>Comply with official regulations. |
| <b>Uncleaned packaging:</b>    |  |
| Recommendation:                | Disposal must be made according to official regulations.   |
| Recommended cleansing agents:  | Water, if necessary, together with cleansing agents.   |

## Section 14. Transport information

|                |  |
|----------------|--|
| <b>General</b> | UN number: 3082 Class: 9 Packing group: III<br>Proper shipping name: Lead nitrate<br>Environmentally hazardous substance, liquid, n.o.s.<br>5L |
|----------------|--|

## Section 15. Regulatory Information

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

|  |  |
|--|--|
| Australian Inventory of Chemical Substances:                 | Substances are listed.                                 |
| Standard for the Uniform Scheduling of Medicines and Poisons | S6   |
| GHS label elements   | None   |
| Chemical safety assessment:                                  | A Chemical Safety Assessment has not been carried out. |

## Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.