

SAFETY DATA SHEET (SDS)

Barium nitrate, 0.1M

Issue date: 22-07-2020

Section 1: Product Identifier and Chemical Identity

| Product Identifier | |
|---|---|
| Product Name: | Barium nitrate solution, 0.1M |
| Product Codes: | MC91.02, MC92.02 |
| Other means of identification: | |
| Chemical formula, alternative names: | Ba(NO ₃) ₂ (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 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 | |
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| Hazard Category | None |
| Label elements | |
| Hazard Pictograms: | None |
| Signal Word: | None |
| Hazard Statements: | Low toxicity |
| Precautionary Statements: | Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest. |
| Other Hazards | |
| Results of PBT and vPvB assessment: | PBT: Not applicable vPvB: Not applicable |

Section 3: Composition/information on ingredients

| Ingredients | | | |
|----------------|------------|------------|---|
| Name | CAS | Proportion | Hazard Class |
| Barium nitrate | 10022-31-8 | 3% | Solid: Oxidizing Solid Category 2, Serious Eye Damage/Eye Irritation Category 2A, Skin Corrosion/Irritation Category 3, Acute Toxicity - Inhalation Vapor Category 4, Acute Toxicity - Oral Category 4 |
| Water | 7732-18-5 | 97% | 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: | Wash with water and soap and rinse thoroughly. If skin irritation occurs: Get Medical advice/ attention. |
| After eye contact: | Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. |
| After swallowing: | Rinse mouth. Give water to drink. Administration of a 1%-5% solution of sodium sulphate or magnesium sulphate may limit the absorption of barium by causing precipitation of insoluble barium sulphate. Seek immediate medical attention. |
| 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: | Substance is non-flammable; use most appropriate agent for surrounding fire. |
| Special hazards arising for the substance or mixture: | No further relevant information available. |
| 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 | |
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| Personal precautions, protective equipment and emergency procedures: | Not required |

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| Environmental precautions: | Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters. |
| Methods and material for containment and cleaning up: | Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation. |
| Reference to other sections: | See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information. |

Section 7: Handling and Storage

| General Information | |
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| Precautions for safe handling: | Ensure good ventilation/exhaustion at the workplace. Do not eat drink or smoke when using this product. Wash contaminated clothing before reuse. |
| 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. Store in suitably labelled containers. |
| 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 | | | |
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| 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. Keep away from foodstuffs, beverages and food. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with eyes. 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 | |

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| Skin protection: | Laboratory Coat |
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Section 9: Physical and chemical properties

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| 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 |
| Ignition Temperature | |
| Decomposition temperature: | No data available |
| Self-igniting: | No data available |
| Danger of explosion: | No data available |
| Explosion limits | |
| Lower: | No data available |
| Upper: | No data available |
| Vapour pressure: | No data available |
| Density: | No data available |
| General Info | |
| Relative density: | No data available |
| Vapour density: | No data available |
| Evaporation rate: | No data available |
| Solubility in/ Miscibility with water: | Soluble |
| Partition coefficient (n-octanol/water): | No data available |
| Viscosity: | No data available |
| Other information: | No further relevant information available |

Section 10: Stability and reactivity

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| Reactivity | |
| General | No further relevant information available. |

| Chemical Stability | |
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| Thermal decomposition / conditions to be avoided: | No decomposition if used according to specifications. |
| Possibility of hazardous reactions: | No dangerous reactions known. |
| Conditions to avoid: | Direct Sunlight. Extreme high or low temperatures. |
| Incompatible materials: | Barium dioxide, magnesium and zinc, reducing agents and combustible materials. |
| Hazardous decomposition products: | None known |

Section 11: Toxicological information

| Information on toxicological effects | |
|--------------------------------------|----------------|
| General | Low toxicity |
| Primary irritant effect: | |
| Inhalation: | Not classified |
| Possibility of hazardous reactions: | Not classified |
| Conditions to avoid: | Not classified |
| Chronic Toxicity: | |
| General | Not classified |

Section 12. Ecological information

| Toxicity | |
|------------------------------------|---|
| Aquatic toxicity: | No data available |
| Persistence and degradability: | No further relevant information available. |
| Behaviour in environmental systems | |
| Bio-accumulative potential: | No further relevant information available. |
| Mobility in soil: | No further relevant information available. |
| Additional ecological information | |
| Results of PBT and vPvB assessment | PBT: Not applicable vPvB: Not applicable |
| Other adverse effects: | No further relevant information available. |

Section 13. Ecological information

| Waste treatment methods | |
|-------------------------|---|
| Recommendation | Prevent this material from entering waterways, drains and sewers. Comply with official regulations. |

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| Uncleaned packaging: | |
| Recommendation: | Disposal must be made according to official regulations. |
| Recommended cleansing agents: | Water, if necessary, together with cleansing agents. |

Section 14. Transport information

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| General | Not listed as a hazardous material. |
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Section 15. Regulatory Information

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