



LTS Research Laboratories, Inc.  
Safety Data Sheet  
Rubidium Nitrate

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1. Product and Company Identification

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Trade Name: Rubidium Nitrate  
Chemical Formula:  $\text{RbNO}_3$   
Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.  
Street: 37 Ramland Road  
City: Orangeburg  
State: New York  
Zip Code: 10962  
Country: USA  
Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)  
+1-703-527-3887 (International)

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2. Hazards Identification

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Signal Word: Danger



Hazard Statements: H272: May intensify fire; oxidizer  
H315: Causes skin irritation  
H319: Causes serious eye irritation  
H335: May cause respiratory irritation  
H350: May cause cancer

Precautionary Statements: P202: Do not handle until all safety precautions have been read and understood  
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
P220: Keep/Store away from clothing/other combustible materials  
P221: Take any precaution to avoid mixing with combustibles  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P264: Wash face, hands, and any exposed skin thoroughly after handling  
P271: Use only outdoors or in a well-ventilated area  
P281: Use personal protective equipment as required  
P302+P350: IF ON SKIN: Gently wash with plenty of soap and water  
P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P308+P313: IF exposed or concerned: Get medical advice/attention  
P363: Wash contaminated clothing before reuse  
P405: Store locked up  
P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

|               |   |
|---------------|---|
| Health:       | 2 |
| Flammability: | 0 |
| Physical:     | 0 |

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3. Composition

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|                   |                    |
|-------------------|--------------------|
| Chemical Family:  | Inorganic Compound |
| Additional Names: | N/A                |

|  |            |
|--|------------|
| Rubidium Nitrate (RbNO <sub>3</sub> ): |            |
| Percentage:                            | 0-100 wt%  |
| CAS #:                                 | 13126-12-0 |
| EC #:                                  | 236-060-1  |

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4. First Aid Procedures

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|---------------------|---|
| General Treatment:  | Seek medical attention if symptoms persist. |
| Special Treatment:  | None  |
| Important Symptoms: | None  |

|             |   |
|-------------|---|
| Inhalation: | Remove victim to fresh air. Supply oxygen if breathing is difficult.  |
| Ingestion:  | Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. |
| Skin:       | Wash affected area with mild soap and water. Remove any contaminated clothing.  |
| Eyes:       | Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing    |

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5. Firefighting Measures

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|                                |   |
|--------------------------------|---|
| Flammability:                  | Flammable as powder only  |
| Extinguishing Media:           | Use CO <sub>2</sub> , dry chemical, or foam for extinction.   |
| Spec. Fire Fighting Procedure: | Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products. |

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6. Accidental Release Measures

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|----------------------------------|--|
| If Material Is Released/Spilled: | Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. |
| Environmental Precautions:       | Isolate runoff to prevent environmental pollution.   |

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7. Handling and Storage

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|----------------------------|--|
| Handling Conditions:       | Wash thoroughly after handling.  |
| Storage Conditions:        | Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.                       |
| Work/Hygienic Maintenance: | Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. |
| Ventilation:               | Provide sufficient ventilation to maintain concentration at or below threshold limit.  |

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## 8. Exposure Controls and Personal Protection

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|                              |   |
|------------------------------|---|
| Permissible Exposure Limits: | N/A   |
| Threshold Limit Value:       | N/A   |
| Special Equipment:           | None  |
| Respiratory Protection:      | Dust Respirator   |
| Protective Gloves:           | Rubber gloves   |
| Eye Protection:              | Safety glasses or goggles   |
| Body Protection:             | Protective work clothing. Wear close-toed shoes and long sleeves/pants. |

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## 9. Physical and Chemical Characteristics

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|                           |  |
|---------------------------|--|
| Color                     | White  |
| Form:                     | Powder, Granules, Pellets, Sputtering target, Custom parts |
| Odor:                     | N/A  |
| Water Solubility:         | N/A  |
| Boiling Point:            | N/A  |
| Melting Point:            | 310 °C   |
| Flash Point:              | N/A  |
| Autoignition Temperature: | N/A  |
| Density:                  | N/A  |
| Molecular weight:         | 147.48 g/mol   |

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## 10. Reactivity

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|                                   |   |
|-----------------------------------|---|
| Stability:                        | Stable under recommended storage conditions                         |
| Reacts With:                      | Oxidizer, contact with combustible/organic material may cause fire. |
| Incompatible Conditions:          | Combustible material, Excess heat                                   |
| Hazardous Decomposition Products: | Metal oxide fume  |

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## 11. Toxicological Information

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|                                |                             |
|--------------------------------|-----------------------------|
| Potential Health Effects:      |                             |
| Eyes:                          | May cause irritation        |
| Skin:                          | May cause irritation        |
| Ingestion:                     | May cause irritation        |
| Inhalation:                    | May cause irritation        |
| Chronic:                       | N/A                         |
| Signs & Symptoms:              | N/A                         |
| Aggravated Medical Conditions: | May cause cancer            |
| Median Lethal Dose:            | 4625 mg/kg for rat by mouth |
| Carcinogen:                    | N/A                         |

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## 12. Ecological Information

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|  |      |
|--|------|
| Aquatic Toxicity:                      | High |
| Persistent Bioaccumulation Toxicity:   | No   |
| Very Persistent, Very Bioaccumulative: | No   |
| Notes:                                 | N/A  |

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## 13. Disposal Considerations

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Dispose of in accordance with local, state, national, and international regulations.

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#### 14. Transportation Data

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Hazardous: Hazardous as powder only



Hazard Class: 5.1 Oxidizer  
Packing Group: II  
UN Number: UN1477  
Proper Shipping Name: Nitrates, inorganic, n.o.s. (Rubidium Nitrate)

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#### 15. Regulatory Information

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Sec 302 Extremely Hazardous: No  
Sec 304 Reportable Quantities: N/A  
Sec 313 Toxic Chemicals: No

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#### 16. Other Information

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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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