



Safety Data Sheet  
Norepinephrine bitartrate

## 1. Identification

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|                           |   |                        |
|---------------------------|---|------------------------|
| Product name:             | Norepinephrine bitartrate   |                        |
| Catalog#:                 | MSI0900BB   |                        |
| IUPAC name:               | 4-[(1R)-2-amino-1-hydroxyethyl]benzene-1,2-diol;(2R,3R)-2,3-dihydroxybutanedioic acid;hydrate                       |                        |
| Product use restrictions: | Only for research and development use by, or directly under the supervision of, a technically qualified individual. |                        |
| Company:                  | MetaSci Inc.<br>1 Yonge St., Suite 1801<br>Toronto, M5E 1W7, ON, Canada   |                        |
| Telephone:                | (510) 429-8835  |                        |
| Website:                  | www.metasci.ca  |                        |
| Emergency contact number: | 1-800-633-8253  | United States & Canada |
|                           | 1-801-629-0667  | International          |

## 2. Hazard Identification

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### GHS Classification

Acute Tox. (category 2)

Acute Tox. (category 2)

Acute Tox. (category 2)

### Pictogram



### Signal word

Danger

### Hazard statement(s)

H300

Fatal if swallowed.

H310

Fatal in contact with skin.

H330

Fatal if inhaled.

### Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

P262

Do not get in eyes, on skin, or on clothing.

P264

Wash skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/protective clothing/eye



|           |   |
|-----------|---|
| P284      | protection/face protection.   |
| P301+P310 | Wear respiratory protection.<br>IF SWALLOWED: Immediately call a poison center or doctor. |
| P302+P350 | IF ON SKIN: Gently wash with plenty of soap and water.                                    |
| P304+P340 | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. |
| P310      | Immediately call a poison center or doctor.   |
| P320      | Specific treatment is urgent (see supplemental first aid instructions on this label).     |
| P321      | Specific treatment (see supplemental first aid instructions on this label).               |
| P322      | Specific measures (see supplemental first aid instructions on this label).                |
| P330      | Rinse mouth.  |
| P361      | Remove/Take off immediately all contaminated clothing.                                    |
| P363      | Wash contaminated clothing before reuse.  |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.                          |
| P405      | Store locked up.  |
| P501      | Dispose of contents/container to an approved waste disposal plant.                        |

Hazards not otherwise classified (HNOC) or not covered by GHS  
None

### 3. Composition/Information on Ingredients

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Synonyms: 108341-18-0;UNII-IFY5PE3ZRW;IFY5PE3ZRW;Norepinephrine bitartrate  
[USAN:USP];Norepinephrine (bitartrate monohydrate)  
CAS#: 108341-18-0  
Purity: >98.0%(T)  
EC#: No data available.

### 4. First Aid Measures

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General information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.



Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

## 5. Fire Fighting Measures

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Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Specific hazards arising from the chemical: Nitrogen oxides, Carbon oxides

Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

## 7. Handling and Storage

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Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Error, no match for Store long-term in a cool, dry place

## 8. Exposure Controls/Personal Protection

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Exposure limits

|            |                    |
|------------|--------------------|
| OSHA PEL:  | No data available. |
| NIOSH REL: | No data available. |
| ACGIH TLV: | No data available. |

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this



material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

#### Personal protection

Eyes:

Hands:

Skin and body:

Respiratory:

#### 9. Physical and Chemical Properties

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|                            |  |
|----------------------------|--|
| Physical State:            | No data available.                               |
| Molecular Formula:         | C <sub>12</sub> H <sub>19</sub> NO <sub>10</sub> |
| Molecular Weight:          | 337.28   |
| Odor:                      | No data available.                               |
| pH:                        | No data available.                               |
| Boiling Point Range:       | No data available.                               |
| Freezing/Melting Point:    | No data available.                               |
| Flash Point:               | No data available.                               |
| Evaporation Rate:          | No data available.                               |
| Flammability (solid, gas): | Please see section 2.                            |
| Explosive limits:          | No data available.                               |
| Vapor Pressure:            | No data available.                               |
| Vapor Density:             | No data available.                               |
| Solubility:                | No data available.                               |
| Relative Density:          | No data available.                               |
| Refractive Index:          | No data available.                               |
| Volatility:                | No data available.                               |
| Auto-ignition temperature: | No data available.                               |
| Decomposition Temperature: | No data available.                               |
| Partition Coefficient:     | No data available.                               |

#### 10. Stability and Reactivity

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|                                     |  |
|-------------------------------------|--|
| Reactivity:                         | No data available.                                   |
| Chemical stability:                 | Stable under recommended temperatures and pressures. |
| Possibility of hazardous reactions: | No data available.                                   |
| Conditions to avoid:                | Dust generation. Heat.                               |
| Incompatible materials:             | Strong oxidizing agents.                             |
| Hazardous decomposition products:   | Nitrogen oxides, Carbon oxides                       |

#### 11. Toxicological Information

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|---|--|
| RTECS#:   | DN6750000  |
| Acute toxicity:   | No data available.   |
| Routes of exposure:   | Inhalation, eye contact, skin contact, ingestion.  |
| Symptoms related to the physical, chemical and toxicological characteristics: | Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death. |
| Carcinogenicity   |  |
| IARC:   | Not classified.  |
| NTP:  | Not listed.  |
| OSHA:   | Not listed.  |
| Acute toxic effects:  | Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.   |

## 12. Ecological Information

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|                                |                    |
|--------------------------------|--------------------|
| Ecotoxicity:                   | No data available. |
| Persistence and degradability: | No data available. |
| Bioaccumulative potential:     | No data available. |
| Mobility in soil:              | No data available. |
| Other adverse effects:         | No data available. |

## 13. Disposal Considerations

Disposal of waste:  
Disposal of packaging:

## 14. Transportation Information

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|                         |   |
|-------------------------|---|
| DOT (United States)     |   |
| UN number:              | UN2811  |
| Proper shipping name:   | Toxic solids, organic, n.o.s. (Norepinephrine bitartrate) |
| Transport hazard class: | 6.1   |
| Packing group:          | III   |

## IATA

|                         |                 |
|-------------------------|-----------------|
| UN number:              | UN2811          |
| Proper shipping name:   | Not applicable. |
| Transport hazard class: | Not applicable. |
| Packing group:          | Not applicable. |

## 15. Regulatory Information

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TSCA Chemical Inventory:



Canada  
DSL/NDSL: This product is NOT listed in the Domestic Substance List (DSL) NOR the NonDomestic Substance List (NDSL). A New Substance Notification may be required prior to import or manufacture in Canada.

California  
Proposition 65:  
NFPA Rating: Health: No data available.  
Flammability: No data available.  
Instability: No data available.

## 16. Additional Information

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Revision Date: 08/08/2019

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### Disclaimer:

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall MetaSci be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if MetaSci has been advised of the possibility of such damages.*

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