

# Safety Data Sheet

## Nitrate Reagent B

**CAROLINA**<sup>®</sup>  
www.carolina.com

### Section 1

### Product Description

**Product Name:** Nitrate Reagent B  
**Recommended Use:** Science education applications  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2

### Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER**



Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life.

**GHS Classification:**

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 3, Acute Toxicity - Inhalation Vapor Category 4

### Section 3

### Composition / Information on Ingredients

| <u>Chemical Name</u>  | <u>CAS #</u> | <u>%</u> |
|-----------------------|--------------|----------|
| Water                 | 7732-18-5    | 52       |
| Acetic acid (glacial) | 64-19-7      | 40       |
| Sulphanilic acid      | 121-57-3     | 8        |

### Section 4

### First Aid Measures

**Emergency and First Aid Procedures**

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**Skin Contact:** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  
**Ingestion:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### Section 5

### Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

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## Section 6 Spill or Leak Procedures

### Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. 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. Never exceed any occupational exposure limits. Isolate area. Keep unnecessary personnel away. Ventilate the contaminated area. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. Evacuate the area promptly.

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.

## Section 7 Handling and Storage

**Handling:** Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Storage:** Store locked up. Store in a secure area suitable for corrosives. Suitable for any general chemical storage.

**Storage Code:** White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

## Section 8 Protection Information

| <u>Chemical Name</u>  | <u>ACGIH</u> |               | <u>OSHA PEL</u>          |               |
|-----------------------|--------------|---------------|--------------------------|---------------|
|                       | <u>(TWA)</u> | <u>(STEL)</u> | <u>(TWA)</u>             | <u>(STEL)</u> |
| Acetic acid (glacial) | 10 ppm TWA   | 15 ppm STEL   | 10 ppm TWA; 25 mg/m3 TWA | N/A           |

### Control Parameters

**Engineering Measures:** Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** No information available

## Section 9 Physical Data

**Formula:** Mixture

**Molecular Weight:** Mixture

**Appearance:** Off-white to tan Liquid

**Odor:** None

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point:** No data available

**Boiling Point:** 100 C

**Flash Point:** No data available

**Flammable Limits in Air:** No data available

**Vapor Pressure:** No data available

**Evaporation Rate (BuAc=1):** No data available

**Vapor Density (Air=1):** No data available

**Specific Gravity:** No data available

**Solubility in Water:** No data available

**Log Pow (calculated):** No data available

**Autoignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** No data available

**Percent Volatile by Volume:** No data available

## Section 10 Reactivity Data

**Reactivity:** No data available

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|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| <b>Chemical Stability:</b>       | Stable under normal conditions.                   |
| <b>Conditions to Avoid:</b>      | None known.                                       |
| <b>Incompatible Materials:</b>   | Water-reactive materials, Strong oxidizing agents |
| <b>Hazardous Polymerization:</b> | Will not occur                                    |

## Section 11 Toxicity Data

|                          |                   |
|--------------------------|-------------------|
| <b>Symptoms (Acute):</b> | No data available |
| <b>Delayed Effects:</b>  | No data available |

### Acute Toxicity:

| Chemical Name         | CAS Number | Oral LD50                    | Dermal LD50 | Inhalation LC50                                                                 |
|-----------------------|------------|------------------------------|-------------|---------------------------------------------------------------------------------|
| Water                 | 7732-18-5  | Oral LD50 Rat<br>90000 mg/kg |             |                                                                                 |
| Acetic acid (glacial) | 64-19-7    |                              |             | INHALATION<br>LC50 MAMMAL<br>11.4 GM/M3<br>INHALATION<br>LC50 Mouse 5620<br>ppm |
| Sulphanilic acid      | 121-57-3   | Oral LD50 Rat<br>12300 mg/kg |             |                                                                                 |

### Carcinogenicity:

| Chemical Name     | CAS Number | IARC       | NTP        | OSHA       |
|-------------------|------------|------------|------------|------------|
| No data available |            | Not listed | Not listed | Not listed |

### Chronic Effects:

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>Mutagenicity:</b>         | No evidence of a mutagenic effect.                  |
| <b>Teratogenicity:</b>       | No evidence of a teratogenic effect (birth defect). |
| <b>Sensitization:</b>        | No evidence of a sensitization effect.              |
| <b>Reproductive:</b>         | No evidence of negative reproductive effects.       |
| <b>Target Organ Effects:</b> |                                                     |
| <b>Acute:</b>                | No data available                                   |
| <b>Chronic:</b>              | No data available                                   |

## Section 12 Ecological Data

|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| <b>Overview:</b>              | This material is not expected to be harmful to the ecology. |
| <b>Mobility:</b>              | No data                                                     |
| <b>Persistence:</b>           | No data                                                     |
| <b>Bioaccumulation:</b>       | No data                                                     |
| <b>Degradability:</b>         | No data                                                     |
| <b>Other Adverse Effects:</b> | No data                                                     |

| Chemical Name         | CAS Number | Eco Toxicity                                                                                                                                                                        |
|-----------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water                 | 7732-18-5  | No data available                                                                                                                                                                   |
| Acetic acid (glacial) | 64-19-7    | 96 HR LC50 LEPOMIS MACROCHIRUS 75 MG/L [STATIC]<br>96 HR LC50 PIMEPHALES PROMELAS 79 MG/L [STATIC]<br>48 HR EC50 DAPHNIA MAGNA 65 MG/L [STATIC]<br>24 HR EC50 DAPHNIA MAGNA 47 MG/L |
| Sulphanilic acid      | 121-57-3   | 48 HR EC50 DAPHNIA MAGNA 85.66 MG/L<br>72 HR EC50 DESMODESMUS SUBSPICATUS 91 MG/L                                                                                                   |

## Section 13 Disposal Information

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal Methods:</b>       | Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. |
| <b>Waste Disposal Code(s):</b> | Not Determined                                                                                                                                        |

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## Section 14

## Transport Information

**Ground - DOT Proper Shipping Name:**  
UN 2790; CI 8; PG III; Acetic acid solution

**Air - IATA Proper Shipping Name:**  
UN 2790; CI 8; PG III; Acetic acid solution

## Section 15

## Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

| Chemical Name         | CAS Number | § 313 Name | § 304 RQ   | CERCLA RQ                          | § 302 TPQ | CAA 112(2) TQ |
|-----------------------|------------|------------|------------|------------------------------------|-----------|---------------|
| Acetic acid (glacial) | 64-19-7    | No         | 5000 lb RQ | 5000 lb final RQ; 2270 kg final RQ | No        | No            |

**California Prop 65:** No California Proposition 65 ingredients

## Section 16

## Additional Information

**Revised: 08/21/2018**

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

|        |                                                                       |      |                                               |
|--------|-----------------------------------------------------------------------|------|-----------------------------------------------|
| ACGIH  | American Conference of Governmental Industrial Hygienists             | NTP  | National Toxicology Program                   |
| CAS    | Chemical Abstract Service Number                                      | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL  | Permissible Exposure Limit                    |
| DOT    | U.S. Department of Transportation                                     | ppm  | Parts per million                             |
| IARC   | International Agency for Research on Cancer                           | RCRA | Resource Conservation and Recovery Act        |
| N/A    | Not Available                                                         | SARA | Superfund Amendments and Reauthorization Act  |
|        |                                                                       | TLV  | Threshold Limit Value                         |
|        |                                                                       | TSCA | Toxic Substances Control Act                  |
|        |                                                                       | IDLH | Immediately dangerous to life and health      |