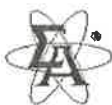


# N-Bromo succinimide



**SIGMA-ALDRICH**

## Material Safety Data Sheet

Date Printed: 10/07/2004  
Date Updated: 04/04/2004  
Version 1.30

### Section 1 - Product and Company Information

**Product Name** N-Bromosuccinimide, 99%  
**Product Number** B81255  
**Brand** Aldrich Chemical  
**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 314 771 5765  
**Fax:** 800 325 5052

**Emergency Phone:** 414 273 3850 Ext. 5996

### Section 2 - Composition/Information on Ingredient

| <u>Substance Name</u> | <u>CAS #</u> | <u>SARA 313</u> | <u>EC no</u> | <u>Annex I Index Number</u> |
|-----------------------|--------------|-----------------|--------------|-----------------------------|
| N-BROMOSUCCINIMIDE    | 128-08-5     | No              | 204-877-2    |                             |

**Formula** C<sub>4</sub>H<sub>4</sub>BrNO<sub>2</sub>  
**Synonyms**

### Section 3 - Hazards Identification

#### Emergency Overview

Corrosive.  
Harmful if swallowed. Causes burns.

**HMIS Rating**  
Health: 3 Flammability: 0 Reactivity: 1

**NFPA Rating**  
Health: 3 Flammability: 0 Reactivity: 1

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting.

#### Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5 - Fire Fighting Measures

**Autoignition Temp:** N/A

#### Extinguishing Media

##### Suitable

Carbon dioxide, dry chemical powder, or appropriate foam.

#### Firefighting

##### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

##### Specific Hazard(s)

Emits toxic fumes under fire conditions.

### Section 6 - Accidental Release Measures

#### Procedure to be Followed In Case of Leak or Spill

Evacuate area.

#### Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

#### Handling

##### User Exposure

Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### Storage

##### Suitable

Keep tightly closed.

#### Special Requirements

Light sensitive. Moisture sensitive.

### Section 8 - Exposure Controls / PPE

#### Engineering Controls

Safety shower and eye bath. Use only in a chemical fume hood.

#### Personal Protective Equipment

##### Respiratory

Government approved respirator.

##### Hand

Compatible chemical-resistant gloves.

##### Eye

Chemical safety goggles.

**General Hygiene Measures**

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

**Section 9 - Physical/Chemical Properties**

| Appearance | Physical State | Color              |
|------------|----------------|--------------------|
|            | Solid          | Very faintly beige |

Molecular Weight: 177.99 AMU

|                       |        |
|-----------------------|--------|
| pH                    | N/A    |
| BP/BP Range           | N/A    |
| MP/MP Range           | 175 °C |
| Freezing Point        | N/A    |
| Vapor Pressure        | N/A    |
| Vapor Density         | N/A    |
| Saturated Vapor Conc. | N/A    |
| SG/Density            | N/A    |
| Bulk Density          | N/A    |
| Odor Threshold        | N/A    |
| Volatile%             | N/A    |
| VOC Content           | N/A    |
| Water Content         | N/A    |
| Solvent Content       | N/A    |
| Evaporation Rate      | N/A    |
| Viscosity             | N/A    |
| Partition Coefficient | N/A    |
| Decomposition Temp.   | N/A    |
| Flash Point °F        | N/A    |
| Flash Point °C        | N/A    |
| Explosion Limits      | N/A    |

|                                |     |
|--------------------------------|-----|
| Flammability                   | N/A |
| Autoignition Temp              | N/A |
| Solubility                     |     |
| Solubility in Water: Slightly. |     |

N/A = not available

**Section 10 - Stability and Reactivity**

**Stability**  
Stable  
Stable.  
**Conditions of Instability**  
Light sensitive. Moisture sensitive.  
**Materials to Avoid**  
Strong acids, Strong bases, Iron and iron salts.

**Hazardous Decomposition Products****Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen bromide gas.

**Hazardous Polymerization**  
**Hazardous Polymerization**  
Will not occur.

**Section 11 - Toxicological Information****Route of Exposure****Skin Contact**

Causes burns.

**Skin Absorption**

May be harmful if absorbed through the skin.

**Eye Contact**

Causes burns.

**Inhalation**

Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled.

**Ingestion**

Harmful if swallowed.

**Signs and Symptoms of Exposure**

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

**Toxicity Data**

Oral - Rat: 1,170 mg/kg(LD50)

**Section 12 - Ecological Information**

No data available.

**Section 13 - Disposal Considerations****Appropriate Method of Disposal of Substance or Preparation**

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

**Section 14 - Transport Information****DOT**

**Proper Shipping Name:** Corrosive solid, acidic, organic, n.o.s.

**UN#:** 3261

**Class:** 8

**Packing Group:** Packing Group II

**Hazard Label:** Corrosive

**PIH:** Not PIH

**IATA**

**Proper Shipping Name:** Corrosive solid, acidic, organic, n.o.s.

**IATA UN Number:** 3261

**Hazard Class:** 8

**Packing Group:** II

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## Section 15 - Regulatory Information

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### EU Additional Classification

Symbol of Danger: C

Indication of Danger

Corrosive.

**Risk Statements** R: 22 34

Harmful if swallowed. Causes burns.

**Safety Statements** S: 26 36/37/39 45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### US Classification and Label Text

Indication of Danger

Corrosive.

**Risk Statements**

Harmful if swallowed. Causes burns.

**Safety Statements**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### United States Regulatory Information

SARA Listed: No

### Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

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## Section 16 - Other Information

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### Disclaimer

For R&D use only. Not for drug, household or other uses.

### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

