**Material Safety Data Sheet**

**Section 1 - Product and Company Information**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Nitrosonium tetrafluoroborate, 95%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number</td>
<td>175064</td>
</tr>
<tr>
<td>Brand</td>
<td>Aldrich Chemical</td>
</tr>
<tr>
<td>Company</td>
<td>Sigma-Aldrich</td>
</tr>
<tr>
<td>Street Address</td>
<td>3333 Spruce Street</td>
</tr>
<tr>
<td>City, State, Zip, Country</td>
<td>SAINT LOUIS, MO 63103 US</td>
</tr>
<tr>
<td>Technical Phone:</td>
<td>600-325-5632</td>
</tr>
<tr>
<td>Fax:</td>
<td>600-325-5632</td>
</tr>
<tr>
<td>Emergency Phone:</td>
<td>314-776-6555</td>
</tr>
</tbody>
</table>

**Section 2 - Composition/Information on Ingredient**

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS #</th>
<th>SARA 313</th>
<th>EC no</th>
<th>Annex Index Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NITROSONIUM TETRAFLUOROBORATE</td>
<td>14936-75-7</td>
<td>No</td>
<td>238-679-2</td>
<td></td>
</tr>
</tbody>
</table>

**Formula**

NCBF4

**Section 3 - Hazards Identification**

**Emergency Overview**

Corrosive: Causes burns. Harmful by Inhalation, in contact with skin and if swallowed.

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

**Section 4 - First Aid Measures**

**Immediate Treatment - Work Site**

In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

**Oral Exposure**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure**

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

**Eye Exposure**

Assure adequate flushing of the eyes by separating the eyelids with fingers.

**Section 5 - Fire Fighting Measures**

**Autoignition Temp:** N/A

**Section 6 - Accidental Release Measures**

**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. Store in a cool dry place. Store under nitrogen. Store at 2-8°C

**Section 8 - Exposure Controls / PPE**

**Engineering Controls**

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

**Personal Protective Equipment**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Faceshield (8-inch minimum).

**General Hygiene Measures**

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

**Section 9 - Physical/Chemical Properties**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Color</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td>Faintly beige</td>
<td>Powder</td>
</tr>
</tbody>
</table>

**Sigma-Aldrich Corporation**

www.sigma-aldrich.com
Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
For small quantities: cautiously add to a large stirred excess of water. Adjust the pH to neutral, separate any insoluble solids or liquids and package them for hazardous-waste disposal. Flush the aqueous solution down the drain with plenty of water. The hydrolysis and neutralization reactions may generate heat and fumes which can be controlled by the rate of addition. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s.
UN: 3290
Class: 8
Packing Group: Packing Group II
Hazard Label: Corrosive
Phtt: Not Phtt

IATA
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s.
IATA UN Number: 3290
Hazard Class: 8
Packing Group: II

Section 15 - Regulatory Information

EU Additional Classification
Symbol of Danger: C
Indication of Danger: Corrosive.
Risk Statements: R: 34
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).

Section 11 - Toxicological Information

Route of Exposure
Multiple Routes
Harmful if swallowed, inhaled, or absorbed through skin.

Signs and Symptoms of Exposure
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in dizziness, irritation 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. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 16 - Other Information

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 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.