**Material Safety Data Sheet**

**Section 1 - Product and Company Information**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>ETHYL 3-AMINOBENZOATE, METHANESULFONIC ACID SALT, 99%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>Aldrich Chemical</td>
</tr>
<tr>
<td>Company</td>
<td>Sigma-Aldrich</td>
</tr>
<tr>
<td>Street Address</td>
<td>3050 Spruce Street</td>
</tr>
<tr>
<td>City, State, Zip, Country</td>
<td>St. Louis, MO, 63103, US</td>
</tr>
<tr>
<td>Technical Phone</td>
<td>314 771 5766</td>
</tr>
<tr>
<td>Fax:</td>
<td>800 325 5052</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>414 273 3650 Ext.3696</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS #</th>
<th>SARA 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL 3-AMINOBENZOATE, METHANESULFONIC ACID SALT</td>
<td>896-88-2</td>
<td>No</td>
</tr>
</tbody>
</table>

**Formula**
C9H11NO2.CH4O3S

**Synonyms**
- 3-Aminobenzoic acid ethyl ester methanesulfonate
- Ethyl m-aminobenzoate methanesulfonate
- Ethyl m-aminobenzoate, methanesulfonic acid salt, Flinquel, Metacaine, MS-222, Tropicaine, Tricaine methanesulfonate

**Section 3 - Hazards Identification**

**Emergency Overview**
Irritant.
Irritating to eyes, respiratory system, and skin.

**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.

**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 contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure**
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**Section 5 - Fire Fighting Measures**

**Autoignition Temp:** N/A

<table>
<thead>
<tr>
<th>Flammability</th>
<th>N/A</th>
</tr>
</thead>
</table>

**Extinguishing Media**
Suitable:
Water spray. 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.

**Exposure Hazard(s)**
Material:
Irritant.

**Section 6 - Accidental Release Measures**

**Procedure(s) of Personal Precaution(s)**
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Methods for Cleaning Up**
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**Section 7 - Handling and Storage**

**Handling**
Do not breathe dust. Avoid contact with eyes, skin, and clothing.

**Storage**
Suitable:
Keep tightly closed. Store in a cool dry place.

**Section 8 - Exposure Controls / PPE**

**Engineering Controls**
Safety shower and eyewash. Mechanical exhaust required.

**Personal Protective Equipment**
Respiratory:
NIOSH/MSHA-approved respirator.
Hand:
Compatible chemical-resistant gloves.
Eye:
Chemical safety goggles.

**General Hygiene Measures**
Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Section 9 - Physical/Chemical Properties**

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>261.3 AMU</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>BP/BO Range</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Aldrich Chemical - E10521
Sigma-Aldrich Corporation
www.sigma-aldrich.com
Section 10 - Stability and Reactivity

Stability
- Materials to Avoid
  - Strong oxidizing agents.

Hazardous Decomposition Products
- Hazardous Decomposition Products
  - Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides.

Section 11 - Toxicological Information

Route of Exposure
- Inhalation
  - Material is irritating to mucous membranes and upper respiratory tract.
  - Multiple Routes
  - May be harmful by inhalation, ingestion, or skin absorption. Causes eye and skin irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: DG2456000

Toxicity Data
- Intravenous - Mouse: 180 MG/KG (LD50)

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
- 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: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
- Proper Shipping Name: None
- Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

US Classification and Label Text
- Indication of Danger
  - Inert
- Risk Statements
  - Irritating to eyes, respiratory system, and skin.
  - Safety Statements
  - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

United States Regulatory Information
- SARA 313 Listed: No
- TSCA Inventory Item: Yes

Section 16 - Other Information

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. 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 1999 Sigma-Aldrich Co. Licenses granted to make unlimited paper copies for internal use only.