Material Safety Data Sheet

Section 1 - Product and Company Information

Product Name: Fast Blue BB Salt (zinc chloride) salt
Product Number: F0378
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3005 Spruce Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 800-325-5832
Fax: 800-325-5832
Emergency Phone: 314-776-6555

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>1-DIAZO-4-BENZOYLAMINO-2,5-DIETHOXY-BENZENE ZINC CHLORIDE</td>
<td>5486-84-0</td>
<td>No</td>
<td>226-817-4</td>
<td></td>
</tr>
</tbody>
</table>

Formula: C17H18N2O3.1.2ClZn
Synonym: 0

Section 3 - Hazards Identification

Emergency Overview
Harmful
Harmful by inhalation, in contact with skin and if swallowed. Limited evidence of a carcinogenic effect.
Possible mutagen.
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, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A

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
Harmful solid.

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. Avoid raising dust. 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, or on clothing. Avoid prolonged or repeated exposure.

Storage
Suitable: Keep tightly closed. Store in a cool dry place. Store at 20°C.

Special Requirements
Light sensitive.

Section 8 - Exposure Controls / PPE

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

Personal Protective Equipment
Other
Wear appropriate government approved respirator, chemically resistant gloves, safety goggles, other protective clothing.

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

Section 9 - Physical/Chemical Properties

Appearance
Color: Yellow
Form: Powder

Sigma Chemical - F0378
Sigma-Aldrich Corporation
www.sigma-aldrich.com
Section 10 - Stability and Reactivity

Stability
Conditions of Instability:
May discolor on exposure to light.
Materials to Avoid:
Strong oxidizing agents, strong bases.

Hazardous Decomposition Products
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.

Section 11 - Toxicological Information

Route of Exposure
Multiple Routes:
Harmful if swallowed, inhaled, or absorbed through skin. May cause irritation.

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

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal or 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 nonhazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification
Symbol of Danger: Xn
Indication of Danger:
Harmful.

Risk Statements:
R: 22 40
Harmful if swallowed. Limited evidence of a carcinogenic effect.

Safety Statements:
S: 36/37
Wear suitable protective clothing and gloves.

US Classification and Label Text
Indication of Danger:
Harmful.

Risk Statements:
Harmful by inhalation. In contact with skin and if swallowed: Limited evidence of a carcinogenic effect.

Safety Statements:
Do not breathe dust. Wear suitable protective clothing.

US Statements:
Possible mutagen.

United States Regulatory Information
SARA Listed: No

Notes: This product is subject to SARA section 313 reporting requirements. This product is subject to SARA section 311 reporting requirements.

Canada Regulatory Information
WHMIS Classification:
This product has been classified in accordance with the hazard criteria of the CPG, and the MSDS contains all the information required by the CPG.

DSL: Yes
NDDB: No

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 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.