Material Safety Data Sheet

Section 1 - Product and Company Information

Product Name: DEFABLOC SC
Product Number: 76307
Brand: Fluka Chemical
Company: Sigma-Aldrich
Address: 3000 Spruce Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 314 771 5765
Fax: 800 325 5022
Emergency Phone: 414 273 3660 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name: 4-(2-AMINOPHENYL)BENZENESULFONYL FLUORIDE HYDROCHLORIDE
CAS #: 30827-99-7
SARA 313: No
EC No: Annex I Index Number

Section 3 - Hazards Identification

Emergency Overview
Corrosive.
Caused 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.

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. Store under argon. Store at 2-8°C

Special Requirements
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.

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Sigma-Aldrich Corporation
www.sigma-aldrich.com
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>
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<tbody>
<tr>
<td>Physical State</td>
<td>Slightly beige</td>
<td>Crystalline</td>
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<tr>
<td>Solid</td>
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Molecular Weight: 239.5 AMU

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>pH</td>
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<tr>
<td>BP/SP Range</td>
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<tr>
<td>MP/MP Range</td>
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<tr>
<td>Freezing Point</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Vapor Density</td>
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<tr>
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<tr>
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<td>Volatility%</td>
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<tr>
<td>Water Content</td>
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<td>Evaporation Rate</td>
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<td>Partition Coefficient</td>
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<td>Decomposition Temp.</td>
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<td>Flash Point °F</td>
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<tr>
<td>Flash Point °C</td>
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<td>Explosion Limits</td>
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<td>Autoignition Temp</td>
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<tr>
<td>Solubility</td>
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<td></td>
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</tbody>
</table>

N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable.

Materials to Avoid
Strong base, strong oxidizing agents.

Hazardous Decomposition Products

Section 11 - Toxicological Information

Hazardous Polymerization
Hazardous Polymerization
Will not occur.

Route of Exposure
Skin Contact
Causes burns.

Skin Absorption
May be harmful if absorbed through the skin.

Eye Contact
Causes burns.

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

Ingestion
May be harmful if swallowed.

Signs and Symptoms of Exposure
Inhalation may result in spasms, inflammation and edema of the larynx and bronchii, chemical pneumonitis, and pulmonary edema.

Conditions Aggravated by Exposure
A protease inhibitor.

RTCS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Disposal of Substance or Preparation
Contact a licensed waste disposal service to dispose of the material.

Scavenge 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, acid, organic, n.o.s.
UN#: 3291
Class: 8
Packing Group: Packing Group II
Hazard Label: Corrosive
PfH: Not PfH

IATA
Proper Shipping Name: Corrosive solid, acid, organic, n.o.s.
IATA UN Number: 3291
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 39/37/39/45
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
Causes burns.
Safety Statements
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).

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: No
MDL: 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 2003 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.