Section 1 - Chemical Product and Company Identification

MSDS Name:  
Sulfanilamide  
Catalog Numbers:  
LC25440  
Synonyms:  
4-Aminobenzenesulfonamide; 4-Aminophenylsulfonamide; p-Anilinesulfonamide; p-Sulfamidoaniline.  
Company Identification:  
LabChem Inc  
200 William Pitt Way  
Pittsburgh, PA 15238  
Company Phone Number:  
(412) 826-5230  
Emergency Phone Number:  
(800) 424-9300  
CHEMTREC Phone Number:  
(800) 424-9300

Section 2 – Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>63-74-1</td>
<td>Sulfanilamide</td>
<td>&gt;98</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

Appearance: White crystals  
Danger! May cause eye, skin, and respiratory tract irritation. May be harmful if swallowed or inhaled. May cause reproductive and fetal effects.  
Target Organs: Blood.

Potential Health Effects

Eye:  
May cause eye irritation.  
Skin:  
May cause skin irritation. May cause photosensitive skin reactions in certain individuals. Not expected to cause an allergic skin reaction. A single prolonged skin exposure is not likely to result in the material being absorbed in harmful amounts. Patch test (humans): negative. Sensitization test (guinea pig): negative. (Merck KGaA)  
Ingestion:  
May cause irritation of the digestive tract. Overexposure may cause methemoglobinemia. Used therapeutically in large oral doses, sulfanilamide has produced damage to the liver, the blood system
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and has caused photosensitive skin reactions. This level of exposure is not likely under conditions of usual commercial or industrial use.

**Inhalation:**
May cause respiratory tract irritation. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown blood. May cause methemoglobinemia.

**Chronic:**
Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. May cause reproductive and fetal effects.

### Section 4 - First Aid Measures

**Eyes:**
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:**
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:**
Call a poison control center. If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:**
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**
Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:**
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, thermal decomposition or combustion may generate irritating and highly toxic gases. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

**Extinguishing Media:**
Use water spray, dry chemical, carbon dioxide.

**Autoignition Temperature:**
Not available

**Flash Point:**
Not available

**NFPA Rating:**
Health: 1; Flammability: 1; Instability: 0

**Explosion Limits:**
Lower: n/a Upper: n/a
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Section 6 - Accidental Release Measures

General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling:
Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Store protected from light. Use only in a chemical fume hood.

Storage:
Keep away from sources of ignition. Do not store in direct sunlight. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfanilamide</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs:
Sulfanilamide: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:
Wear appropriate gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
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Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Crystals</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>None reported</td>
</tr>
<tr>
<td>pH</td>
<td>5.8-6.1 (0.5%)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Negligible</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Negligible</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing/Melting Point</td>
<td>163-167°C</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>7.5 g/l @ 25°C</td>
</tr>
<tr>
<td>Specific Gravity/Density</td>
<td>1.08 g/cm³</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C₆H₈N₂O₂S</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>172.20</td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

Chemical Stability:
Stable under normal temperatures and pressures. Light sensitive.

Conditions to Avoid:
Light, dust generation, excess heat, prolonged exposure to air.

Incompatibilities with Other Materials:
Strong oxidizing agents.

Hazardous Decomposition Products:
Nitrogen oxides, carbon monoxide, carbon dioxide, oxides of sulfur.

Hazardous Polymerization:
Has not been reported.

Section 11 - Toxicological Information

RTECS:
CAS# 63-74-1: WO8400000.

LD50/LC50:
CAS# 63-74-1:
Oral, mouse: LD50 = 3 gm/kg;
Oral, rabbit: LD50 = 1300 mg/kg;
Oral, rat: LD50 = 3900 mg/kg

Carcinogenicity:
CAS# 63-74-1: Not listed by ACGIH, IARC, NTP, or California Proposition 65.

Epidemiology:
No information found.

Teratogenicity:
Sulfanilamide is the parent compound of the class of drugs known as sulfonamides. Sulfonamides cross the placenta readily and bind to fetal plasma proteins. Sulfanilamide is excreted into breast milk in relatively large quantities.
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Reproductive:
Sulfanilamide, and certain other sulfonamides, can produce infertility in males. This effect is readily reversible, and fertility returns once drug administration is stopped.

Mutagenicity:
See actual entry in RTECS for complete information.

Neurotoxicity:
No information found.

Section 12 - Ecological Information
No information found.

Section 13 - Disposal Considerations
Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: Not regulated
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal
TSCA:
CAS# 63-74-1 is listed on the TSCA inventory.
SARA Reportable Quantities (RQ):
None of the chemicals in this material have an RQ.
CERCLA/SARA Section 313:
No chemicals are reportable under Section 313.
OSHA - Highly Hazardous:
None of the chemicals in this product are considered highly hazardous by OSHA.

US State
State Right to Know:
CAS# 63-74-1 is not present on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts, Florida.
California Regulations:
None.
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European/International Regulations

Canadian DSL/NDSL:
CAS# 63-74-1 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:
CAS# 63-74-1 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 14, 2007
Revision Date: December 10, 2007

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