# Material Safety Data Sheet

## Aminophylline, anhydrous MSDS

<table>
<thead>
<tr>
<th>Section 1: Chemical Product and Company Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name:</strong> Aminophylline, anhydrous</td>
</tr>
<tr>
<td><strong>Catalog Codes:</strong> SLA1828</td>
</tr>
<tr>
<td><strong>CAS#:</strong> 317-34-0</td>
</tr>
<tr>
<td><strong>RTECS:</strong> XH5600000</td>
</tr>
<tr>
<td><strong>TSCA:</strong> TSCA 8(b) inventory: Aminophylline, anhydrous</td>
</tr>
<tr>
<td><strong>Cl#:</strong> Not available.</td>
</tr>
<tr>
<td><strong>Synonym:</strong></td>
</tr>
<tr>
<td><strong>Chemical Name:</strong> Not available.</td>
</tr>
<tr>
<td><strong>Chemical Formula:</strong> C16H24N10O4</td>
</tr>
<tr>
<td><strong>Contact Information:</strong> Sciencelab.com, Inc.</td>
</tr>
<tr>
<td>14025 Smith Rd.</td>
</tr>
<tr>
<td>Houston, Texas 77396</td>
</tr>
<tr>
<td>US Sales: 1-800-901-7247</td>
</tr>
<tr>
<td>International Sales: 1-281-441-4400</td>
</tr>
<tr>
<td>Order Online: ScienceLab.com</td>
</tr>
<tr>
<td>CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300</td>
</tr>
<tr>
<td>International CHEMTREC, call: 1-703-527-3887</td>
</tr>
<tr>
<td>For non-emergency assistance, call: 1-281-441-4400</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Section 2: Composition and Information on Ingredients</th>
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<tbody>
<tr>
<td><strong>Composition:</strong></td>
</tr>
<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td><strong>CAS #</strong></td>
</tr>
<tr>
<td><strong>% by Weight</strong></td>
</tr>
<tr>
<td>Aminophylline, anhydrous</td>
</tr>
<tr>
<td>317-34-0</td>
</tr>
<tr>
<td>100</td>
</tr>
<tr>
<td><strong>Toxicological Data on Ingredients:</strong> Aminophylline, anhydrous: ORAL (LD50): Acute: 243 mg/kg [Rat].</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Section 3: Hazards Identification</th>
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</thead>
<tbody>
<tr>
<td><strong>Potential Acute Health Effects:</strong></td>
</tr>
<tr>
<td>Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant).</td>
</tr>
<tr>
<td><strong>Potential Chronic Health Effects:</strong></td>
</tr>
<tr>
<td>CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Section 4: First Aid Measures</th>
</tr>
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<tbody>
<tr>
<td><strong>Eye Contact:</strong></td>
</tr>
<tr>
<td>Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.</td>
</tr>
</tbody>
</table>
Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.
Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.
Odor: Not available.
Taste: Not available.
Molecular Weight: 420.43 g/mole
Color: Not available.

\[ \text{pH (1\% soln/water)}: \text{Not available.} \]
Boiling Point: Decomposes.
Melting Point: 269.5°C (517.1°F)
Critical Temperature: Not available.
Specific Gravity: Not available.
Vapor Pressure: Not applicable.
Vapor Density: Not available.
Volatility: Not available.
Odor Threshold: Not available.
Water/Oil Dist. Coeff.: Not available.
Ionicity (in Water): Not available.
Dispersion Properties: Not available.
Solubility: Not available.

Section 10: Stability and Reactivity Data

Stability: The product is stable.
Instability Temperature: Not available.
Conditions of Instability: Not available.
Incompatibility with various substances: Not available.
Corrosivity: Non-corrosive in presence of glass.
**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

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### Section 11: Toxicological Information

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 243 mg/kg [Rat].

**Chronic Effects on Humans:** Causes damage to the following organs: lungs, mucous membranes.

**Other Toxic Effects on Humans:** Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

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### Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

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### Section 13: Disposal Considerations

**Waste Disposal:**

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### Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

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### Section 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: Aminophylline, anhydrous


**Other Classifications:**

- **WHMIS (Canada):** CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
DSCL (EEC): R22- Harmful if swallowed.

HMIS (U.S.A.):
- Health Hazard: 2
- Fire Hazard: 1
- Reactivity: 0
- Personal Protection: E

National Fire Protection Association (U.S.A.):
- Health: 2
- Flammability: 1
- Reactivity: 0
- Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

### Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

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