Material Safety Data Sheet
p-Dimethylaminobenzaldehyde

Section 1 - Chemical Product and Company Identification

MSDS Name:
p-Dimethylaminobenzaldehyde
Catalog Numbers:
   LC13589
Synonyms:
p-Formyldimethylaniline, 4-Dimethylaminobenzaldehyde
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>100-10-7</td>
<td>p-Dimethylaminobenzaldehyde</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

Appearance: Light yellow crystals
Warning! Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Harmful if swallowed.
Target Organs: None

Potential Health Effects

Eye:
   May cause eye irritation.

Skin:
   May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion:
   Harmful if swallowed. May cause irritation of the digestive tract.

Inhalation:
   May cause respiratory tract irritation. May be harmful if inhaled.

Chronic:
   No information found.
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 immediately.

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:
If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

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, irritating and highly toxic gases may be generated by thermal decomposition or combustion. 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, or appropriate foam.

Autoignition Temperature:
445 °C (833 °F)

Flash Point:
164 °C (327 °F)

NFPA Rating:
H-1, F-1, I-1

Explosion Limits:
Lower: n/a  Upper: n/a

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. Avoid generating dusty conditions. Provide ventilation.
Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust.

Storage:
Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light. Storage under inert gas has been recommended.

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>p-Dimethylaminobenzaldehyde</td>
<td>None listed</td>
<td>None listed</td>
<td>None listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs:
None listed.

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.

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>Light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic odor</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.00368 mm Hg @ 25 °C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>5.15</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>176 – 177°C</td>
</tr>
</tbody>
</table>
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Freezing/Melting Point: 74°C
Decomposition Temperature: Not available
Solubility in water: 2.18 g/L @ 25°C
Specific Gravity/Density: Not available
Molecular Formula: C9H11NO
Molecular Weight: 149.19

Section 10 - Stability and Reactivity

Chemical Stability:
Stable under normal temperatures and pressures. Unless extremely pure, crystals are lemon-colored and may turn pink on exposure to light.

Conditions to Avoid:
Light, dust generation, excess heat.

Incompatibilities with Other Materials:
Strong oxidizing agents, strong bases.

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

Hazardous Polymerization:
Has not been reported.

Section 11 - Toxicological Information

RTECS:
CAS# 100-10-7: CU5775000

LD50/LC50:
CAS# 100-10-7:
Oral, mouse: LD50 = 800 mg/Kg

Carcinogenicity:
CAS# 100-10-7: Not listed by ACGIH, IARC, NTP, or California Proposition 65.

Epidemiology:
No information found

Teratogenicity:
No information found

Reproductive:
No information found

Mutagenicity:
No information found

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# 100-10-7 is listed on the TSCA inventory.
SARA Reportable Quantities (RQ):
CAS# 100-10-7 does not have an RQ.
CERCLA/SARA Section 313:
CAS# 100-10-7 is not 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# 100-10-7 is not present on state lists from California, Pennsylvania, Minnesota, Massachusetts, or New Jersey.
California Regulations:
None.

European/International Regulations
Canadian DSL/NDSL:
CAS# 100-10-7 is listed on Canada’s DSL List.
Canada Ingredient Disclosure List:
CAS# 100-10-7 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 30, 2007
Revision Date: April 18, 2008

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