p-(Dimethylamino)benzaldehyde

J.T. BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865

SECTION I - PRODUCT IDENTIFICATION

Product Name: p-(Dimethylamino)benzaldehyde
Common Synonyms: Dimethylaminobenzonitracinal, Erlich's Reagent
Chemical Family: Aldehydes
Formula: \((\text{CH}_3)_2\text{N}=\text{C}_6\text{H}_4\text{CHO}\)
Formula Wt.: 149.19
CAS No.: 100-10-7
NIOSH/RTECS No.: CU5775000
Product Use: Laboratory Reagent
Product Codes: J418

PRECAUTIONARY LABELING

BAKER SAF-T-DATA+ System

HEALTH FLAMMABILITY REACTIVITY CONTACT
SLIGHT SLIGHT SLIGHT SLIGHT

Laboratory Protective Equipment

GOGGLES
LAB COAT

U.S. Precautionary Labeling

CAUTION!
MAY CAUSE IRRITATION.
During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.
p- (Dimethylamino)benzaldehyde

Effective: 03/09/92

International Labeling

Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

SIN-T-DATA: Storage Color Code: Orange (general storage)

SECTION II - COMPONENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>OSHA/PEL</th>
<th>ACGIH/TLU</th>
</tr>
</thead>
<tbody>
<tr>
<td>p- (Dimethylamino)benzaldehyde</td>
<td>100-10-7</td>
<td>90-100</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

SECTION III - PHYSICAL DATA

Boiling Point: 176°C (348°F) (at 760 mm Hg)

Melting Point: 74°C (165°F) (at 760 mm Hg)

Specific Gravity: N/A (H₂O=1)

Solubility(H₂O): Slight (0.1-1%)

pH: N/A

Odor Threshold (ppm): N/A

Coefficient Water/Oil Distribution: N/A

Appearance & Odor: Yellow crystals or granules.

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): 5.15

Evaporation Rate: N/A

% Volatiles by Volume: 0 (21°C)

Physical State: Solid

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup): N/A
Autoignition Temperature: N/A
Flammable Limits: Upper - N/A  Lower - N/A

Fire Extinguishing Media
Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards
None identified.

Toxic Gases Produced
oxides of nitrogen, carbon monoxide, carbon dioxide

Explosion Data-Sensitivity to Mechanical Impact
None identified.

Explosion Data-Sensitivity to Static Discharge
None identified.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): Not Established
Short-Term Exposure Limit (STEL): Not Established
Permissible Exposure Limit (PEL): Not Established

Toxicity of components

Intraperitoneal Rat LD_{50} for p-(Dimethylamino)benzaldehyde 620 mg/kg

Carcinogenicity: NTP: No  IARC: No  Z List: No  OSHA Reg: No

Carcinogenicity
None identified.
Reproductive Effects
None identified.

Effects of Overexposure

INHALATION: none identified

SKIN CONTACT: prolonged contact may cause irritation, allergic reaction may develop

EYE CONTACT: none identified

SKIN ABSORPTION: none identified

INGESTION: none identified

CHRONIC EFFECTS: none identified

Target Organs
none identified

Medical Conditions Generally Aggravated by Exposure
none identified

Primary Routes of Entry
skin contact, eye contact

Emergency and First Aid Procedures

INGESTION: If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

INHALATION: If a person breathes in large amounts, move the exposed person to fresh air.

SKIN CONTACT: In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.

EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

SARA/TITLE III HAZARD CATEGORIES and LISTS
Acute: No Chronic: Yes Flammability: No Pressure: No Reactivity: No

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SECTION V - HEALTH HAZARD DATA (CONTINUED)

Extremely Hazardous Substance: No
CERCLA Hazardous Substance: No
SARA 313 Toxic Chemicals: No
TSCA Inventory: Yes

SECTION VI - REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: heat
Incompatibles: strong oxidizing agents
Decomposition Products: oxides of nitrogen, carbon monoxide, carbon dioxide

SECTION VII - SPILL & DISPOSAL PROCEDURES

Steps to be Taken in the Event of a Spill or Discharge
Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure
Dispose in accordance with all applicable federal, state, and local environmental regulations.

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.
Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.
Eye/Skin Protection: Safety goggles, uniform, rubber gloves are recommended.
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SECTION IX - STORAGE AND HANDLING PRECAUTIONS
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SNF-T-DATA# Storage Color Code: Orange (general storage)

Storage Requirements
Keep container tightly closed. Suitable for any general chemical storage area.

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION
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Domestic (D.O.T.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

International (I.M.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

Marine Pollutants: No

AIR (I.C.A.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

U.S. Customs Harmonization Number: 29223000005

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N/A = Not Applicable or Not Available
N/E = Not Established

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label.

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BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.

Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

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