

MATERIAL SAFETY DATA SHEET

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PRODUCTS: *p*-Dimethylaminobenzaldehyde **Cat. No.** 3700-0400

Section I – General

CAS #: [100-10-7]
FORMULA: *p*-(CH₃)₂NC₆H₄CHO
CHEMICAL NAME: *p*-Dimethylaminobenzaldehyde
SYNONYMS: Ehrlich's Reagent, DMAB, 4-dimethylaminobenzenecarbal
CHEMICAL FAMILY: Aldehyde, aromatic

Section II – Hazardous Ingredients

1: 99.9 + % *p*-Dimethylaminobenzaldehyde

Section III – Physical Data

MELTING POINT: 74°C
BOILING POINT: 176–177°C @ 17mm Hg
APPEARANCE: Very pale yellow crystals
ODOR: Slight odor
SOLUBILITY: Soluble in alcohol, ether, chloroform acetic acid; slightly soluble in water
VAPOR PRESSURE: Not available
AIR SENSITIVE: Yes
LIGHT SENSITIVE: Yes

Section IV – Toxicity Data

RTECS #: CU5775000
RTECS NAME: *p*-Dimethylaminobenzaldehyde
TOXICITY: Low health hazard; oral LD₅₀ (rat): GT500 mg/kg, slightly toxic
REVIEWS: Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data are presented here. Refer to actual entry in RTECS for complete information.

Section V – Health Hazards and First Aid

ACUTE EFFECTS: Moderately toxic by ingestion
CHRONIC EFFECTS: Not thoroughly established
EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes; assure adequate flushing by separating eyelids with fingers. Call a physician.
SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention.
INHALATION: Remove to fresh air. If breathing becomes difficult, get medical help.
INGESTION: Treat symptomatically and supportively; no special antidote. If vomiting occurs, keep head lower than hips to prevent aspiration. Call a physician immediately.

Section VI – Fire and Explosion Hazards

FLASHPOINT (Method used): Not applicable
EXTINGUISHING MEDIA: Water spray; dry chemical; carbon dioxide
FIREFIGHTING PROCEDURE: Wear self-contained breathing apparatus and protective clothing
UNUSUAL HAZARDS &
EXPLOSIVE PROPERTIES: None known

Section VII – Reactivity

GENERAL: Stable
INCOMPATIBILITIES: Keep from contact with oxidizers.
HAZARDOUS COMBUSTION OR
DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide

Section VIII – Spill or Leak Procedures

SPILL PROCEDURE: Wear eye protection and gloves. Clean up with rags, paper towels, sponge; place in a bag and hold for waste disposal. Ventilate area and wash spill-site with soap and water.
WASTE DISPOSAL: This product may be mixed or dissolved in a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local regulations.

Section IX – Precautions for Handling and Storage

SAFETY EQUIPMENT: Chemical safety goggles, vinyl / latex / or rubber gloves, safety-shower with eye-wash.
HANDLING PROCEDURES: Avoid eye and skin contact. Do not ingest. Wear safety glasses and gloves.
STORAGE PROCEDURES: Direct sunlight may turn this product pink. Store at room temperature.

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