



FTF SCIENTIFIC

# SAFETY DATA SHEET

## Section 1: Identification

**Product Name:** 4-Dimethylaminobenzaldehyde

**Chemical Name/Synonyms:** Ehrlich's Reagent; Para-Dimethylaminobenzaldehyde

**CAS No:** 100-10-7

**Product Use:** Intended for research and development

**Product Restrictions:** Not intended for food, drug, cosmetic, pesticide, or medical device

**Company:**

FTF Scientific LLC

9601 North Palafox Street, Suite 12

Pensacola, FL 32534

**In emergency call 911.**

**For information about this SDS, use this contact phone#:** 720-621-7160

## Section 2: Hazard(s) Identification

**Hazard Classification:**

Skin sensitization (Sub-category 1B), H317

Acute oral toxicity (Category 4)

**Signal Word(s):** Warning

**Hazard Statements:**

Harmful if swallowed

May cause an allergic skin reaction

**Pictograms:**



**Precautionary Statements:**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

**Description of other hazards:** NA

## Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
4-Dimethylaminobenzaldehyde	Ehrlich's Reagent	100-10-7	>99%



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**Section 4: First-Aid Measures**

**After skin contact:** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

**After eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**After inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

**After swallowing:** Do NOT induce vomiting. Call a physician or poison control center immediately.

**Section 5: Fire-Fighting Measures**

**Suitable extinguishing agents:** Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

**Personal precautions:** Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.

**Measures for environmental protection:** Should not be released into the environment. Do not flush into surface water or sanitary sewer system

**Measures for cleaning/collecting:** Sweep up and shovel into suitable containers for disposal

**Section 7: Handling and Storage**

**Handling:** Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes or clothing. Do not ingest. If swallowed then seek immediate medical assistance.

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Moisture sensitive. Store under inert gas. Protect from light. Incompatible Materials. Strong oxidizing agents. Strong bases.

**Section 8: Exposure Controls/Personal Protection**

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Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
4-Dimethylaminobenzaldehyde	NA	NA	NA	NA

**General protective and hygienic measures:** Handle in accordance with good industrial hygiene and safety practice

**Breathing equipment:** 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.

**Protection of hands:** Wear appropriate protective gloves and clothing to prevent skin exposure

**Eye protection:** 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.

### Section 9: Physical and Chemical Properties

**Form:** Powder Solid

**Odor:** Strong

**Odor threshold:** NA

**pH:** NA

**Melting point/melting range:** 72-75 Celsius

**Boiling point/boiling range:** 176-177 Celsius

**Flash point:** 164 Celsius

**Evaporation rate:** NA

**Flammability:** NA

**Upper/lower flammability or explosive limits:** NA

**Auto ignition temperature:** 445 Celsius

**Danger of explosion:** NA

**Vapor pressure:** NA

**Vapor density:** NA

**Relative density:** NA

**Solubility in/Miscibility with water:** 0.8 G/L at 20 Celsius

### Section 10: Stability and Reactivity

**Reactivity:** Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

**Chemical stability:** The product is chemically stable under standard ambient conditions (room temperature)

**Conditions to avoid:** May discolor on exposure to air and light. Strong heating.

**Incompatible materials:** Strong oxidizing agents, Strong bases

**Hazardous decomposition products:** Nitrogen oxides, Carbon monoxide, Carbon dioxide

### Section 11: Toxicological Information

**Acute toxicity:**

**Potential routes of exposure/potential health effects**



**Skin:** NA  
**Eye:** NA  
**Inhalation:** NA  
**Ingestion:** LD50 Oral – Rat- female - > 2000 MG/KG  
**Carcinogenic effects:** NA  
**Mutagenic effects:** NA  
**Reproductive toxicity:** NA  
**Sensitization:** NA  
**Target organs:** NA

### Section 12: Ecological Information (non-mandatory)

**Ecotoxicity:**

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 45.7 mg/l - 96 h  
Toxicity to daphnia and other aquatic invertebrates semi-static test EC50 - Daphnia magna (Water flea) - 1.58 mg/l – 48 H  
Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 72.7 mg/l - 72 h

**Mobility:** NA

**Biodegradation:** aerobic - Exposure time 28 d Result: 0 % - Not readily biodegradable.

**Bioaccumulation:** NA

### Section 13: Disposal Considerations (non-mandatory)

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

### Section 14: Transport Information (non-mandatory)

**DOT regulations:**

- **UN Number:** Not classified as dangerous goods
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not classified as dangerous goods
- **Proper Shipping Name:** Not classified as dangerous goods
- **Limited Quantities:** Not classified as dangerous goods

**IMDG:**

- **UN Number:** Not classified as dangerous goods
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not classified as dangerous goods
- **Proper Shipping Name:** Not classified as dangerous goods
- **EMS-NO:** Not classified as dangerous goods

**IATA:**

- **UN Number:** Not classified as dangerous goods
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not classified as dangerous goods
- **Proper Shipping Name:** Not classified as dangerous goods



## Section 15: Regulatory Information (non-mandatory)

### US Federal Regulations

**SARA Section 355 (extremely hazardous substances):** NA

**SARA Section 313 (specific toxic chemical listings):** NA

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs):** NA

## Section 16: Other Information

The above information is as accurate as can be provided however this does not represent the full guarantee of the properties of product. FTF Scientific LLC shall not be held liable for any damage resulting from handling or contact of the above product.

**SDS date of preparation/update:** November 9<sup>th</sup> 2022

