

## **MATERIAL SAFETY DATA SHEET**

### **4-ANISIDINE 98%** **(For Synthesis)** **MSDS CAS: 104-94-9**

#### **Section 1: Chemical Product and Company Identification**

##### Section 1: Chemical Product

**Product Name:** 4-Anisidine

**CAS#:** 104-94-9

**C.I. No.:** Not available.

**Synonym:** 1-Amino-4-Methoxybenzene

**Chemical Name:** p-Anisidine

**Chemical Formula:** C<sub>7</sub>-H<sub>9</sub>-N-O

**Brand:** OXFORD

##### Details Of The Supplier Of The Safety Data Sheet:

**Company identification:** OXFORD LAB FINE CHEM LLP  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
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#### **Section 2: Composition and Information on Ingredients**

##### Composition:

Name	CAS #	% by Weight
4-Anisidine	104-94-9	100

**Toxicological Data on Ingredients:** p-Anisidine: ORAL (LD50): Acute: 1320 mg/kg [Rat]. 1410 mg/kg [Mouse]. 2900 mg/kg [Rabbit]. DERMAL (LD50): Acute: 3200 mg/kg [Rat].

## Section 3: Hazards Identification

### Potential Acute Health Effects:

Hazardous in case of skin contact (irritant), . Slightly hazardous in case of eye contact (irritant), of inhalation (lung irritant). Severe over-exposure can result in death.

### Potential Chronic Health Effects:

**CARCINOGENIC EFFECTS:** A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. **MUTAGENIC EFFECTS:** Not available. **TERATOGENIC EFFECTS:** Not available. **DEVELOPMENTAL TOXICITY:** Not available. The substance may be toxic to blood, kidneys, liver, cardiovascular system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

## Section 4: First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

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

**Serious Inhalation:** Not available.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**Serious Ingestion:** Not available.

## Section 5: Fire and Explosion Data

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

**Auto-Ignition Temperature:** 515°C (959°F)

**Flash Points:** CLOSED CUP: 5°C (41°F).

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

## Section 5: Fire and Explosion Data (Continued)

**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:**

Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed.

Eliminate all ignition sources. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## Section 7: Handling and Storage

**Precautions:**

Keep locked up.. 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. Keep away from incompatibles such as oxidizing agents, acids.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8: Exposure Controls/Personal Protection

### 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:

**TWA: 0.1 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 0.5 (mg/m<sup>3</sup>) from NIOSH [United States]**  
**SKIN Consult local authorities for acceptable exposure limits.**

## Section 9: Physical and Chemical Properties

**Physical state and appearance: Solid. (Crystalline solid.)**

**Odor: Amine like. (Slight.)**

**Taste: Not available.**

**Molecular Weight: 123.16 g/mole**

**Color: Brown.**

**pH (1% soln/water): Not available.**

**Boiling Point: 246°C (474.8°F)**

**Melting Point: 57°C (134.6°F)**

**Critical Temperature: Not available.**

**Specific Gravity: Not available.**

**Vapor Pressure: Not applicable.**

**Vapor Density: 4.28 (Air = 1)**

**Volatility: Not available.**

**Odor Threshold: Not available.**

**Water/Oil Dist. Coeff.: Not available.**

**Ionicity (in Water): Not available.**

**Dispersion Properties: Easily dispersed in methanol. Very slightly dispersed in cold water, hot water. See solubility in methanol, acetone.**

**Solubility: Easily soluble in methanol. Partially soluble in acetone. Very slightly soluble in cold water, hot water.**

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Reactive with oxidizing agents, acids.

**Corrosivity:** Not available.

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

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

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

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

**Toxicity to Animals:** Acute oral toxicity (LD50): 1320 mg/kg [Rat]. Acute dermal toxicity (LD50): 3200 mg/kg [Rat].

**Chronic Effects on Humans:** CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: blood, kidneys, liver, cardiovascular system, central nervous system (CNS).

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

**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.

## 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 less toxic than the product itself.

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

## Section 13: Disposal Considerations

### Waste Disposal:

## Section 14: Transport Information

### 14.1. Land transport (ADR-RID)

Proper shipping name	: TOXIC SOLID, ORGANIC, N.O.S.
UN N°	: 2811
H.I. nr	: 60
ADR - Class	: 6.1
Labelling - Transport	: 6.1 : Toxic substances.
ADR - Group	: III

### 14.2. Sea transport (IMDG) [English only]

Proper shipping name	: TOXIC SOLID, ORGANIC, N.O.S.
UN N°	: 2811
IMO-IMDG - Class or division	: 6.1 : Toxic substances.
IMO-IMDG - Packing group	: III

### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: TOXIC SOLID, ORGANIC, N.O.S.
UN N°	: 2811
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: III

## Section 15: Other Regulatory Information

**Federal and State Regulations:** Pennsylvania RTK: p-Anisidine Florida: p-Anisidine Minnesota: p-Anisidine Massachusetts RTK: p-Anisidine New Jersey: p-Anisidine TSCA 8(b) inventory: p-Anisidine TSCA 8(d) H and S data reporting: p-Anisidine: June 1999 SARA 313 toxic chemical notification and release reporting: p-Anisidine

### **Other Regulations:**

**OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). **EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances.

## Section 15: Other Regulatory Information(Continued)

### **Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):** R26/27/28- Very toxic by inhalation, in contact with skin and if swallowed. R33- Danger of cumulative effects. R36/37/38- Irritating to eyes, respiratory system and skin.

**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. Safety glasses.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

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