

# Yangzhou Sunchem Co.,Ltd.

## Material Safety Data Sheet

### 4-ethyl-Benzenamine

#### Product Identification

**【Product Name】** 4-Ethylaniline  
**【Synonyms】** p-Ethylaniline  
**【CAS】** 589-16-2  
**【Formula】** C<sub>8</sub>H<sub>11</sub>N  
**【Molecular Weight】** 121.18  
**【EINECS】** 209-637-0  
**【RTECS】** BX9900000  
**【RTECS Class】** Drug; Mutagen  
**【Beilstein/Gmelin】** 774319  
**【Beilstein Reference】** 4-12-00-02419

#### Physical and Chemical Properties

**【Appearance】** Clear, orange to red liquid.  
**【Solubility in water】** Insoluble  
**【Melting Point】** -5  
**【Boiling Point】** 216  
**【Vapor Pressure】** 1.9 (30 C)  
**【Density】** 0.96875 g/cm<sup>3</sup> (20 C)  
**【pKa/pKb】** 8.91 (pKb)  
**【Partition Coefficient】** 1.93  
**【Heat Of Vaporization】** 45.4 kJ/mol  
**【Refractive Index】** 1.56 (15 C)

#### First Aid Measures

##### 【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 to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**【Skin】**

Get medical aid immediately. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**【Eyes】**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

## Handling and Storage

**【Storage】**

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

**【Handling】**

Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Wash clothing before reuse. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

## Hazards Identification

**【Ingestion】**

May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**【Inhalation】**

May cause respiratory tract irritation.

**【Skin】**

May cause skin irritation.

**【Eyes】**

May cause eye irritation.

**【Hazards】**

When heated, vapors may form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards.

**【EC Risk Phrase】**

R 23/24/25 33

**【EC Safety Phrase】**

S 28 36/37 45

**【UN (DOT)】**

2810

## Exposure Controls/Personal Protection

**【Personal Protection】**

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 protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

### **【Respirators】**

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## **Fire Fighting Measures**

### **【Flash Point】**

85

### **【Fire Fighting】**

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. Combustible Liquid. To extinguish fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

### **【Fire Potential】**

Combustible material: may burn but does not ignite readily.

## **Accidental Release Measures**

### **【Small spills/leaks】**

Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Clean up spills immediately, using the appropriate protective equipment. Remove all sources of ignition. Provide ventilation.

## **Stability and Reactivity**

### **【Disposal Code】**

5

### **【Incompatibilities】**

Acids, acid anhydrides, acid chlorides, chloroformates, strong oxidizing agents.

### **【Stability】**

Stable under normal temperatures and pressures.

### **【Decomposition】**

Nitrogen oxides, carbon monoxide, carbon dioxide.

### **【Combustion Products】**

Fire may produce irritating, corrosive and/or toxic gases.

## **Transport Information**

### **【UN Number】**

2810

**【Hazard Class】**

6.1

**【Packing Group】**

I, II, III

**【HS Code】**

2921 49 80