



# Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

## MATERIAL SAFETY DATA SHEET

Savgan Heights ; 102 .B Wing ; R.T.O. Lane .Andheri (West) Mumbai - 400053 , INDIA

### MSDS

## Section 1 - Chemical Product and Company Identification

### Product Name : 2-AMINO THIOPHENOL

**Synonyms:** 2-Aminophenyl mercaptan, 2-Aminobenzenethiol, 2-Mercaptoaniline

**CAS No.:** 137-07-5

**Molecular Weight:** 125.19

**Chemical Formula:** C<sub>6</sub>H<sub>7</sub>

## Section 2 - Composition, Information on Ingredients

| Ingredient         | CAS No   | Percent | Hazardous |
|--------------------|----------|---------|-----------|
| 2-Amino thiophenol | 137-07-5 | 98-100% | Yes       |

## Section 3 - Hazardous Identification

According to European Directive 67/548/EEC as amended.

Harmful if swallowed. Causes burns. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Section 4 - First Aid Measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 - Fire Fighting Measures

### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6 - Accidental Release Measures

### **Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

### **Precautions for safe handling**

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### **Conditions for safe storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas.

## Section 8 - Exposure Controls, Personal Protection

### **Personal protective equipment**

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Hand protection**

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

#### **Eye protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum).

#### **Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

### Appearance

Form clear, liquid

Colour yellow

Odour Stench.

### Safety data

pH no data available

Melting point 16 - 20 °C - lit.

Boiling point 70 - 72 °C at 0,3 hPa - lit.

Flash point 79 °C - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 1,17 g/cm<sup>3</sup> at 25 °C

Water solubility slightly soluble

Partition coefficient:

n-octanol/water

log Pow: 1,3

## Section 10 - Stability and Reactivity

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

acids, Acid chlorides, Acid anhydrides, Chloroformates, Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

## Section 11 - Toxicological Information

### Acute toxicity

LD50 Intraperitoneal - mouse - 25 mg/kg

LD50 Intravenous - mouse - 100 mg/kg

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

### Germ cell mutagenicity

no data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

**Aspiration hazard** no  
data available **Potential  
health effects**

**Inhalation** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion** Harmful if swallowed. Causes burns.

**Skin** May be harmful if absorbed through skin. Causes skin burns.

**Eyes** Causes eye burns.

**Signs and Symptoms of Exposure**

Cough, Difficulty in breathing, Pulmonary edema. Effects may be delayed., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

**Additional Information**

RTECS: DC0600000

## Section 12 - Ecological Information

**Toxicity**

Toxicity to fish LC50 - other fish - 0,57 mg/l - 96,0 h

**Persistence and degradability**

Biodegradability Result: - Not readily biodegradable.

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Section 13 - Disposal Considerations

**Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

## Section 14 - Transport Information

**ADR/RID**

UN-Number: 1760 Class: 8 Packing group: III

Proper shipping name: CORROSIVE LIQUID, N.O.S. (2-Aminobenzenethiol)

**IMDG**

UN-Number: 1760 Class: 8 Packing group: III EMS-No: F-A, S-B

Proper shipping name: CORROSIVE LIQUID, N.O.S. (2-Aminobenzenethiol)

Marine pollutant: No

**IATA**

UN-Number: 1760 Class: 8 Packing group: III

Proper shipping name: Corrosive liquid, n.o.s. (2-Aminobenzenethiol)

## Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Section 16 - Additional Information

Acute Tox. Acute toxicity

Aquatic Acute Acute aquatic toxicity

Aquatic Chronic Chronic aquatic toxicity

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Skin Corr. Skin corrosion

C Corrosive

N Dangerous for the environment

R22 Harmful if swallowed.

R34 Causes burns.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.