

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

MSDS Name: 1,3-Benzothiazole-5-amine  
Synonyms: 5-Aminobenzothiazole  
Company Identification: Annker Organics Co. Ltd.  
Wuhan National Bioindustry Base  
Wuhan 430074, China  
Telephone Number: +86-27-88041443  
Fax Number: +86-27-51829379

### Section 2 - Product Information

Catalog Number: HT11619  
CAS Number: 1123-93-9  
MDL Number: MFCD04115282  
EC Number: Not available  
Molecular Formula:  $C_7H_6N_2S$   
Molecular Weight: 150.20  
Purity: 97.2%

### Section 3 - Physical and Chemical Properties

Physical state: Solid  
Color: Pale yellow  
Odor: Not available  
Freezing/Melting Point: Not available  
Boiling Point: Not available  
Flash Point: Not available  
Refractive Index ( $n_D^{20}$ ): Not available  
Density: Not available  
Decomposition Temperature: Not available  
Solubility: Not available

### Section 4 - Hazards Identification

#### Classification of the substance or mixture

According to Regulation (EC) No1272/2008  
Skin irritation (Category 2)  
Eye irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3)  
According to European Directive 67/548/EEC as amended.

Irritating to eyes, respiratory system and skin.

### Label elements

Pictogram



Signal word

Warning

### Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Hazard symbol(s)

Xi	Irritant
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### R-phrases(s)

R36/37/38	Irritating to eyes, respiratory system and skin.
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### S-phrases(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36	Wear suitable protective clothing.

## Section 5 - First Aid Measures

<i>Eye:</i>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<i>Skin:</i>	Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
<i>Ingestion:</i>	Get medical aid immediately. Wash mouth out with water.
<i>Inhalation:</i>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

## Section 6 - Stability and Reactivity

<i>Chemical Stability:</i>	Stable under normal temperatures and pressures.
<i>Materials to avoid:</i>	Strong oxidizing agents.
<i>Conditions to Avoid:</i>	Incompatible materials.
<i>Hazardous Decomposition Products:</i>	Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.
<i>Hazardous Polymerization:</i>	Has not been reported.

## Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.

**Storage:** Store in a cool, dry well ventilated place away from sources of heat and incompatible substances. Keep container tightly closed when not in use.

### **Section 8 - 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 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.

### **Section 9 - Fire and Explosion Hazard Data**

**General Information:** As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

### **Section 10 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

### **Section 11 - Toxicological Information**

**RTECS#:** CAS#1123-93-9: Not available

**LD50/LC50:** RTECS: Not available.

**Carcinogenicity:** 1,3-Benzothiazole-5-amine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

### **Section 12 - Environmental information**

Not available

### **Section 13 - Disposal Consideration**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

### **Section 14 - Transport Information**

**IATA:** This substance is considered to be not restricted for transportation.

**IMO:** This substance is considered to be not restricted for transportation.

**RID/ADR:** This substance is considered to be not restricted for transportation.

## Section 15 - Regulatory Information

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

### *European/International Regulations*

European Labeling in Accordance with EC Directives

WGK (Water Danger/Protection)

CAS#1123-93-9: 2

Canada

CAS#1123-93-9: Not available

### *US Federal*

#### *TSCA*

CAS#1123-93-9 is not listed on the TSCA Inventory. It is for research and development use only.

## Section 16 - Additional Information

MSDS Creation Date: February 18, 2009

Update: April 1, 2011

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**Note: This product is for laboratory use only - not for drug, household or other use.**