

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: 4-Amino-5-thiazole carboxylic acid methyl ester

Synonyms: Methyl 4-amino-5-thiazole carboxylate

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:L000055CAS Number:278183-10-1MDL Number:Not availableEC Number:UnlistedMolecular Formula: $C_5H_6N_2O_2S$ Molecular Weight:158.18Purity:98%

Section 3 - Physical and Chemical Properties

Physical state: Crystals Color: Pale yellow Odor: Not available Freezing/Melting Point: Not available Boiling Point: Not available Flash Point: Not available Not available Refractive Index (nD20): Not available Density: Decomposition Temperature: Not available Solubility: Not available

Section 4 - Hazards Identification

Eye: Causes eye irritation.

Skin: Causes skin irritation. Harmful if absorbed through the skin.Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures



Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Get medical aid.

Skin: 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.

Ingestion: Get medical aid immediately. Wash mouth out with water.

Inhalation: 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

Chemical Stability: Stable under normal temperatures and pressures.

Materials to avoid: Strong oxidizing agents.

Conditions to Avoid: Incompatible materials.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrochloride.

Hazardous Polymerization: Will not occur.

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#278183-10-1: Not available

LD50/LC50: RTECS: Not available.

Carcinogenicity: 4-Amino-5-thiazole carboxylic acid methyl ester - 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

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 22: Harmful if swallowed.

Safety Phrases:

S 24/25: Avoid contact with skin and eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS#278183-10-1: 2

Canada

CAS#278183-10-1: Not available

US Federal

TSCA

CAS# 278183-10-1 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: December 15, 2010



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