

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

MSDS Name: 2-Amino-5-chloropyrimidine  
Synonyms:  
Company Identification: Annker Organics Co. Ltd.  
Wuhan National Bioindustry Base  
Wuhan 430074, China  
Telephone Number: +86-27-8804 1443  
Fax Number: +86-27-5182 9379

### Section 2 - Product Information

Catalog Number: HP21201  
CAS Number: 5428-89-7  
MDL Number: MFCD00014604  
EC Number: 226-581-2  
Molecular Formula:  $C_4H_4ClN_3$   
Molecular Weight: 129.55  
Purity: 98%

### Section 3 - Physical and Chemical Properties

Physical state: Powder  
Color: Pale yellow  
Odor: Not available  
Freezing/Melting Point: 235-238 deg C  
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

Danger

### Hazard statement(s)

- |      |                            |
|------|----------------------------|
| H301 | Toxic if swallowed.        |
| H318 | Causes serious eye damage. |

### Precautionary statement(s)

- |                    |  |
|--------------------|--|
| P280               | Wear protective gloves/ eye protection/ face protection.   |
| P301 + P310        | IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.   |
| 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)

- |    |         |
|----|---------|
| Xn | Harmful |
|----|---------|

### R-phrases(s)

- |     |                                 |
|-----|---------------------------------|
| R22 | Harmful if swallowed.           |
| R41 | Risk of serious damage to eyes. |

### S-phrases(s)

- |        |   |
|--------|---|
| S26    | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S36/37 | Wear suitable protective clothing and gloves.   |

## 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

- |  |  |
|--|--|
| <b>Chemical Stability:</b>               | Stable under normal temperatures and pressures.                  |
| <b>Materials to avoid:</b>               | Strong oxidizing agents.   |
| <b>Conditions to Avoid:</b>              | Incompatible materials.  |
| <b>Hazardous Decomposition Products:</b> | Carbon monoxide, carbon dioxide, nitrogen oxides, hydrochloride. |
| <b>Hazardous Polymerization:</b>         | 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#5428-89-7: Not available
- LD50/LC50:** RTECS: UV6329500.
- Carcinogenicity:** 2-Amino-5-chloropyrimidine - 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:** UN-Number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2-Amino-5-chloropyrimidine)

**IMO:** UN-Number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2-Amino-5-chloropyrimidine)

**RID/ADR:** UN-Number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2-Amino-5-chloropyrimidine)

### ***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#5428-89-7: 3

Canada

CAS#5428-89-7: Not available

#### *US Federal*

*TSCA*

CAS# 5428-89-7 is not listed on the TSCA Inventory. It is for research and development use only.

### ***Section 16 - Additional Information***

*MSDS Creation Date:* May 18, 2010

*Update:* April 1, 2011

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