

# **Material Safety Data Sheet**

### Section 1 - Chemical Product and Company Identification

MSDS Name: (1S,4S)-2-Aza-5-oxabicyclo[2,2.1]heptane hydrochloride

Synonyms:

Company Identification: Annker Organics Co. Ltd.

Rm501, No.178 Lane 4, Wuluo Road Wuchang District

Wuhan 430064, Hubei China

Telephone Number: +86-27-88041443 Fax Number: +86-27-51829379

### Section 2 - Product Information

Catalog Number: H112877

CAS Number: 31560-06-2

MDL Number: MFCD01569249

EC Number: Not available

Molecular Formula: C<sub>5</sub>H<sub>10</sub>CINO

Molecular Weight: 135.59

Purity: 97%

## Section 3 - Physical and Chemical Properties

Crystals Physical state: Color: Off-white Odor: Not available Freezing/Melting Point: 154-156 deg C Boiling Point: Not available Flash Point: Not available Not available Refractive Index (nD20): Density: Not available Decomposition Temperature: Not available Solubility: Soluble in methanol

## 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

R-phrase(s)

R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Wear suitable protective clothing.

### 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: 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#31560-06-2: Not available

*LD50/LC50:* RTECS: Not available.

Carcinogenicity: (1S,4S)-2-Aza-5-oxabicyclo[2.2.1]heptane hydrochloride - 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#31560-06-2: 2

Canada

CAS#31560-06-2: Not available

US Federal

TSCA

CAS#31560-06-2 is not listed on the TSCA Inventory. It is for research and development use only.

#### Section 16 - Additional Information

MSDS Creation Date: May 20, 2011 Update: April 1, 2013

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