

## Section 1 - Product and Company Identification

**Product Name:** 2-(Trimethylsilyl)Ethyl 1H-Imidazole-1-Carboxylate

**Chemical Name:** 2-(Trimethylsilyl)ethyl 1H-imidazole-1-carboxylate

**Chinese Name Or Other names:** 2-(三甲基硅基)乙基 1H-咪唑-1-甲酸酯

### Company identification

**Name:** Lianhe Aigen Pharma Co., Ltd.

**Address:** No. 3 Donghai 8th Avenue, Toumengang New District, Linhai, Taizhou,  
Zhejiang 317016, China (CHN)

**Post code:** 317016

**Telephone:** 0576- 85665119

**FAX:** 0576-84275110

**Emergency telephone number:** +86-532-83889090

**Recommended use of the chemical and restrictions on use:** Pharmaceutical  
intermediate

## Section 2 - Hazards Identification

### GHS Hazard Category:

Specific target organ toxicity (single exposure)

Category 3

### GHS Label Elements, including precautionary statements:

#### Pictogram:



#### Signal word:

Warning

**Hazard Statement(s):**

H335: May cause respiratory irritation.

**Prevention Precautionary Statement(s):**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or with adequate ventilation.

**Response Precautionary Statement(s):**

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P319: Get medical help if you feel unwell.

**Storage Precautionary Statement(s):**

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

**Disposal Precautionary Statement(s):**

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards which do not result in classification:**

No information available.

**Main Symptom and Emergency Summary After Contact:**

No information available.

## Section 3 - Composition/information on ingredients

**Chemical nature :**

Substance

**Composition:**

Chemical Name	CAS-No.	Concentration
2-(Trimethylsilyl)ethyl 1H-imidazole-1-carboxylate	81616-20-8	≥98%

## **Section 4 - First-aid measures**

### **General recommendation**

Consult a physician. Show this safety data sheet to the doctor in attendance. Remove from exposure, lie down. Take off immediately all contaminated clothing. Victim to lie down in the recovery position, cover and keep him warm.

### **Inhalation:**

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

### **Skin contact:**

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

### **Eye contact:**

Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

### **Ingestion:**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

### **Most important symptoms/effects, acute and delayed**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Protection of first aiders and special tips for doctors:**

No information available.

### **Medical care and special treatment:**

No information available.

## Section 5 - Fire Fighting Measures

### **Suitable extinguishing media (appropriate and inappropriate) :**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Water, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

### **Specific hazards arising from the chemical(Hazardous products of combustion):**

In case of fire and/or explosion do not breathe fumes.

Can be released in case of fire: Carbon oxides, Nitrogen oxides (NO<sub>x</sub>).

### **Specific firefighting methods:**

No information available.

### **special protective actions for fire-fighters:**

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Complete suit protecting against chemicals

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

## Section 6 - Accidental Release Measures

### **Personal (emergency and non-emergency) precautions, protective equipment:**

Wear personal protective equipment. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation. Knock down dust with water spray jet.

Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

**Emergency procedures:**

Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental precautions:**

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

**Collection of leaking materials, Methods and materials for containment and cleaning up:**

Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area. For disposal of solid materials or residues refer to section 13: "Disposal considerations".

**Prevention of secondary hazards:**

Dispose of in accordance with local regulations.

## **Section 7 - Handling and Storage**

**Precautions for safe handling (Technology, ventilation, exposure):**

Advice on safe handling: Provide sufficient air exchange and/or exhaust in work rooms. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Minimize dust generation and accumulation. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Breathing must be protected when large quantities are decanted without local exhaust ventilation. Keep container closed when not in use.

Advice on protection against fire and explosion: Keep away from heat and sources of

ignition. Take precautionary measures against static discharges. Avoid creating dust.

General industrial hygiene practice. Wash hands and face before breaks and immediately after handling the product. Keep working clothes separately.

**Conditions for safe storage, (Technology, incompatibilities, packaging):**

Requirements for storage areas and containers: Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Protect from heat and direct sunlight. Jointless smooth floor.

Advice on common storage: Keep away from food, drink and animal feeding stuffs.

Observe joint storage prohibition.

## Section 8 - Exposure Controls / Personal Protection

**Occupational Exposure Limits:**

Component	CAS RN	MAC (Maximum allowable concentration)	PC-TWA (Time-weighted average allowable concentration)	PC-STEL (Short-term exposure allowable concentration)	Basis
2-(Trimethylsilyl)ethyl 1H-imidazole-1-carboxylate	81616-20-8	No data available	No data available	No data available	No data available

**Appropriate engineering controls:**

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure

that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area.

Use only appropriately classified electrical equipment and powered industrial trucks.

**Individual protection measures, such as PPE:**

**Respiratory protection:**

Use a negative pressure air purifying respirator (half face mask) with filter class P3 if the risk assessment does not support the selection of other protection.

**Hand protection:**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Eye/face protection:**

Use safety glasses to protect against direct contact with the substance if the risk assessment does not support the selection of other protection.

**Skin protection:**

Avoid contact with skin. Use impervious protective gloves to protect against direct contact with the substance. If the substance is dissolved or wetted use a glove material that is resistant to the solvent/liquid.

**Other protection:**

No information available.

## **Section 9 - Physical and Chemical Properties**

**Appearance (Physical state, form, colour, etc.)**

Physical state: No data available

Form: No data available

Colour: No data available

Odour: No data available

**Odour threshold:**

No data available

**pH (concentration):**

No data available

**Melting point/freezing point:**

No data available

**Boiling point/boiling range:**

No data available

**Flash point:**

No data available

**Evaporation rate:**

Not applicable

**Flammability (solid, gas):**

The product is not flammable.

**Upper/lower flammability or explosion limits**

Upper explosion limit: No data available

Lower explosion limit: No data available

**Vapour pressure:**

Not applicable

**Vapour density:**

Not applicable

**Relative density:**

No data available

**Solubility(ies):**

No data available



**Partition coefficient: n-octanol/water:**

No data available

**Autoignition temperature:**

No data available

**Decomposition temperature:**

No data available

**Viscosity:**

No data available

**Explosive properties:**

No data available

**Oxidising properties:**

No data available

**Particle characteristics:**

No data available

**Kinematic viscosity:**

No data available

## **Section 10 - Stability and Reactivity**

**Reactivity:**

No data available

**Chemical stability:**

No data available

**Possible hazardous reactions:**

No data available

**Conditions to avoid:**

No data available

**Incompatible materials:**

No data available

**Hazardous decomposition products:**

Hazardous decomposition products formed under fire conditions. - Carbon oxides,

Nitrogen oxides (NO<sub>x</sub>).

## Section 11 - Toxicological Information

**Acute toxicity:**

Oral(Rat): No data available

Inhalation: No data available

Dermal: No data available

**Skin corrosion/irritation:**

Species: No data available

Classification: No data available

Result: No data available

**Eye irritation/corrosion:**

Species: No data available

Classification: No data available

Result: No data available

**Respiratory or skin sensitization:**

No data available

**Germ cell mutagenicity:**

No data available

**Carcinogenicity:**

No data available

**Reproductive toxicity:**

No data available

**Specific Target Organs Toxicity (Single exposure):**

No data available

**Specific Target Organs Toxicity (Repeated exposure):**

No data available

**Aspiration hazard:**

No data available

**Potential health hazard (inhalation, ingestion, skin contact, eye contact):**

No data available

## **Section 12 - Ecological Information**

**Toxicity (to fish or other):**

**Toxicity to fish:**

No data available

**Toxicity to daphnia and other aquatic invertebrates:**

No data available

**Toxicity to algae:**

No data available

**Persistence and degradation:**

No data available

**Bio accumulative potential:**

No data available

**Mobility in soil:**

No data available

**Other adverse effects:**

No data available

## Section 13 - Disposal Considerations

### Disposal methods (product, contaminated containers and packaging):

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal. Empty containers may dispose of as unused product.

## Section 14 - Transport Information

### UN Number:

ADR/RID: NA; IMDG: NA; IATA: NA;

### UN proper Shipping Name:

ADR/RID: Not dangerous goods;

IMDG: Not dangerous goods;

IATA: Not dangerous goods;

### Transport hazard class(es):

ADR/RID: NA; IMDG: NA; IATA: NA

### Packing group, if applicable:

ADR/RID: NA; IMDG: NA; IATA: NA;

### Environmental hazards:

ADR/RID: No; IMDG: Marine pollutant: No; IATA: No;

### Special precautions for user:

See section 2.2

## Section 15 - Regulatory Information

### Regulatory Information:

Globally Harmonized System of Classification and Labelling.

Dangerous Chemicals Regulations.

Workplace safe use of chemicals and other regulations.

Chemical classification, precautionary labeling and precautionary statements of safety norms.

Common Hazardous Chemicals Classification and Labeling.

Dangerous Goods.

Hazardous Chemicals.

Dangerous Goods Classification and code.

Chemical classification and hazard communication of General.

Industrial establishments Occupational exposure limits for hazardous Part I: chemical harmful factors.

Industrial establishments Occupational exposure limits for hazardous Part II: physical factors.

All users must enable and follow the Material Safety Data Sheet (SDS) and the State Production Safety Supervision Administration (SAWS), Ministry of Environmental Protection (MEP), the Ministry of Health (MOH), the Ministry of Human Resources and Social Security (MHR & SS) and other departments specified in regulations issued worker protection and environmental emission control methods.

**HSE management for the product states:**

Occupational Disease Prevention Law of the PRC.

Labor Protective Equipment selection rules.

Occupational hazards Category.

This product is not included in China's Dangerous Chemicals List, Dangerous Goods, high toxic substances Directory, precursor chemicals directory, China's strict restrict. This product is not included in China's Dangerous Chemicals List, Dangerous Goods, high toxic substances Directory, precursor chemicals directory, China's strict restrictions on

import and export of toxic chemicals directory. ions on import and export of toxic chemicals directory.

## Section 16 - Other Information

### References:

No information available.

### Creation Date:

Apr. 08, 2025

### Revision Date:

Apr. 08, 2025

### Revision Department:

Lianhe Aigen Pharma Co., Ltd. (Lianhe Aigen Pharma Co., Ltd.)

### Revision Notes:

This manual for general industrial use, is to ensure that the information provided to get the right product use, disposal, not the manufacturer's warranty. Currently, it is based on reliable reference data and test data made. Provide a reference to those who need it, according to their respective responsibilities and the actual situation on this information to develop an appropriate response.

This document describes the product safety information. About the necessary conditions on quality assurance Refer to technical data, specifications and so on.

For more information, please contact Lianhe Aigen Pharma Co., Ltd. (Lianhe Aigen Pharma Co., Ltd.) contact.

### Disclaimer:

The SDS-round truthfully provide all the relevant information, but we can not guarantee its decision on the breadth and accuracy. The SDS only have appropriate professional training and use of the product to provide relevant safety precautions for the product information. Obtaining the operating personnel of SDS in particular conditions of use, to

the applicability of the SDS make an independent judgment. In the special conditions of use, the use of this SDS caused injury, the enterprise no responsibility.