*This SDS for user in China - Not correspond to the regulation of other regions.



TCI (Shanghai) DEVELOPMENT CO., LTD.

Revision number: 1

 Revision date:
 09/05/2019
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SAFETY DATA SHEET

1. IDENTIFICATION

Product name:	5-Amino-1H-tetrazole
Product code:	A0427
Company:	TCI (Shanghai) DEVELOPMENT CO., LTD.
Address:	No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Responsible Department:	Sales Department
Telephone:	+86-(0)21-67121386
Fax:	+86-(0)21-67121385
e-mail:	Sales-CN@TCIchemicals.com
Emergency telephone:	0532-83889090
Revision number:	1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture PHYSICAL HAZARDS Flammable solids HEALTH HAZARDS Acute toxicity (Oral) Acute toxicity (Dermal) Acute toxicity (Inhalation) ENVIRONMENTAL HAZARDS Label elements Pictograms or hazard symbols

Category 2

Category 4 Category 4 Category 4 Not classified



Hazard statements

Warning Flammable solid Harmful if swallowed, in contact with skin or if inhaled

Precautionary statements	
[Prevention]	Keep away from heat, sparks, open flames and hot surfacesNo smoking.
	Ground and bond container and receiving equipment.
	Use explosion-proof electrical, ventilating and lighting equipment.
	Avoid breathing dust, fume, mist, vapors or spray.
	Use only outdoors or in a well-ventilated area.
	Do not eat, drink or smoke when using this product.
	Wash hands and face thoroughly after handling.
	Wear protective gloves, protective clothing, eye protection.
[Response]	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
[Disposal]	Dispose of contents and container in accordance with local, regional, national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent:	Substance 5-Amino-1H-tetrazole >98.0%(HPLC)(T)
CAS RN:	4418-61-5
Chemical Formula:	CH₃N₅
4. FIRST AID MEASURES	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.

	Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from	n Explosion risk in case of fire. Fight fire remotely due to the risk of explosion.
the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.
Special protective equipmen	t When extinguishing fire, be sure to wear personal protective equipment

, cdaib for firefighters:

air-tight goggles.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
	Prevent product from entering drains.
	Sweep dust to collect it into an airtight container, taking care not to disperse it.
	Adhered or collected material should be promptly disposed of, in accordance with
up:	appropriate laws and regulations.
Prevention of secondary	Remove all sources of ignition. Fire-extinguishing devices should be prepared in
hazards:	case of a fire. Use spark-proof tools and explosion-proof equipment.

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7. HANDLING AND STORAGE	
Precautions for safe handling Technical measures: Advice on safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Avoid shock and friction. Wash hands and face before breaks and immediately after handling the product. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, incl	
incompatibilities	
Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Be sure not to give the container unexpected impacts, such as falling down or falling off. Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.
8. EXPOSURE CONTROLS / P Engineering controls: Personal protective equipme Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Install a closed system or local exhaust. Also install safety shower and eye bath.
9. PHYSICAL AND CHEMICAL Physical state (20°C): Form: Colour: Odour: pH: Melting point/freezing point: Boiling point/range: Flash point: Flammability or explosive limits: Lower: Upper: Relative density: Solubility(ies): [Water] [Other solvents] Soluble: Insoluble: Log Pow:	Solid Crystal - Powder White - Almost white No data available 201°C No data available No data available No data available No data available No data available Slightly soluble (12g/L, 18°C) Alcohols Ether
Log Pow:	-3.41

10. STABILITY AND REACTIVITY

Stable under proper conditions.
May explosively decompose on heating, shock, friction, etc.
Heat, Spark, Open flame, Static discharge, Shock, Friction
Oxidizing agents, Strong acids, Bases, Metals
Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	ipr-mus LD50:2500 mg/kg
Skin corrosion/irritation:	No data available
Serious eye	No data available
damage/irritation:	
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available
RTECS Number:	XF7465000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	5 % (by BOD) , 9 % (by TOC) , 0 % (by HPLC)
Bioaccumulative	No data available
potential(BCF):	
Mobility in soil	
Log Pow:	-3.41
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	1.33 x 10 ⁻⁹

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	4.1: Flammable solid.
UN-No:	1325
Proper shipping name:	Flammable solid, organic, n.o.s.
Packing group:	III

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference company name of written contents Company: TCI (Shanghai) DEVELOPMENT CO., LTD

company.	
Address:	No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Department:	Technical Information Department
Emergency telephone:	0532-83889090
Fax:	+86-(0)21-67121385

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.