

SAFETY DATA SHEETS

According to the UN GHS revision 8

	Version: 1.
	Creation Date: August 19, 202
	Revision Date: August 19, 202
SECTION 1: Identification	1
1.1GHS Product identifie	r
Product name	2,6-Diamino-4,5,6,7-tetrahydrobenzothiazole
1.20ther means of identi	fication
Product -	
number	
Other names 4,5,6,7-TET	RAHYDRO-1,3-BENZOTHIAZOL-2,6-DIAMINE;6-DiaMino-4;
7-tetrahydr	obenzothiazole
1.3Recommended use of	the chemical and restrictions on use
Identified uses	Industrial and scientific research uses.
Identified uses Uses advised against	Industrial and scientific research uses. no data available
Uses advised against	
Uses advised against 1.4Supplier's details	no data available
Uses advised against 1.4Supplier's details Company	no data available FUJIAN FREEMIND PHARM CO., LTD
Uses advised against 1.4Supplier's details Company	no data available FUJIAN FREEMIND PHARM CO., LTD No. 39, Area D, Economic Development Zone, Hanxian Town,
Uses advised against 1.4Supplier's details Company Address	no data available FUJIAN FREEMIND PHARM CO., LTD No. 39, Area D, Economic Development Zone, Hanxian Town, Mingxi County, Sanming City, Fujian Province 0598-2893888
Uses advised against 1.4Supplier's details Company Address Telephone	no data available FUJIAN FREEMIND PHARM CO., LTD No. 39, Area D, Economic Development Zone, Hanxian Town, Mingxi County, Sanming City, Fujian Province 0598-2893888 mber
Uses advised against 1.4Supplier's details Company Address Telephone 1.5Emergency phone nur	no data available FUJIAN FREEMIND PHARM CO., LTD No. 39, Area D, Economic Development Zone, Hanxian Town, Mingxi County, Sanming City, Fujian Province 0598-2893888 mber

2.1Classification of the substance or mixture

Acute toxicity - Category 4, Oral Skin sensitization, Sub-category 1B Eye irritation, Category 2 Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 3



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2.2GHS label elements, including precautionary statements

Pictogram(s)	
6 1 1	
Signal word	Warning
Hazard statement(s)	H302 Harmful if swallowed
	H317 May cause an allergic skin reaction
	H319 Causes serious eye irritation H412 Harmful to aquatic life with long lasting effects
D	
Precautionary statement	
Prevention	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
	P272 Contaminated work clothing should not be allowed out of th workplace.
	P280 Wear protective gloves/protective clothing/eye
	protection/face protection/hearing protection/
	P273 Avoid release to the environment.
Response	P301+P317 IF SWALLOWED: Get medical help.
Response	P330 Rinse mouth.
	P302+P352 IF ON SKIN: Wash with plenty of water/
	P333+P317 If skin irritation or rash occurs: Get medical help.
	P321 Specific treatment (see on this label).
	P362+P364 Take off contaminated clothing and wash it before
	reuse.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for severa
	minutes. Remove contact lenses, if present and easy to do. Continu
	rinsing.
Storage	none
Disposal	P501 Dispose of contents/container to an appropriate treatment
	and disposal facility in accordance with applicable laws and
	regulations, and product characteristics at time of disposal.
2.30ther hazards which	do not result in classification

no data available

SECTION 3: Composition/information on ingredients

3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
2,6-Diamino-4,5,6,7-tetrahydrobenzothiazole	2,6-Diamino-4,5,6,7-tetrahydrobenzothiazole	104617-49-4	600-587-9	100%

SECTION 4: First-aid measures

4.1Description of necessary first-aid measures



If inhaled

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.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following 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.

4.2Most important symptoms/effects, acute and delayed

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

SECTION 5: Fire-fighting measures

5.1Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2Specific hazards arising from the chemical

no data available

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. 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.

6.2Environmental 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.

6.3Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.



7.1Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

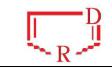
no data available

SECTION 9: Physical and chemical properties and safety characteristics



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Physical state	off-white powder	
Colour	no data available	
Odour	no data available	
Melting point/freezing	no data available	
point		
Boiling point or initial	359°C at 760 mmHg	
boiling point and boiling		
range		
Flammability	no data available	
Lower and upper explosion limit/flammability limit	n no data avallable	
Flash point	170.9°C	
Auto-ignition temperature		
Decomposition	no data available	
temperature		
рН	no data available	
Kinematic viscosity	no data available	
Solubility	no data available	
Partition coefficient	no data available	
n-octanol/water		
Vapour pressure	2.45E-05mmHg at 25°C	
Density and/or relative	1.313 g/cm3	
density		
Relative vapour density	no data available	
Particle characteristics	no data available	
SECTION 10: Stability and	reactivity	
10.1Reactivity		
no data available		
10.2Chemical stability		
no data available		
10.3Possibility of hazardou	us reactions	
no data available		
10.4Conditions to avoid		
no data available		
10.5Incompatible material	S	
no data available		
10.6Hazardous decomposition products		
no data available		
SECTION 11. Toxicological	information	



Acute toxicity

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

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

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

SECTION 12: Ecological information

12.1Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

12.2Persistence and degradability

no data available

12.3Bioaccumulative potential

no data available



12.4Mobility in soil

no data available

12.50ther adverse effects

no data available

SECTION 13: Disposal considerations

13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1UN Number

ADR/RID: Not dangerous goods.	IMDG: Not dangerous goods.	IATA: Not dangerous goods.
(For reference only, please check.)	(For reference only, please check.)	(For reference only, please check.)

14.2UN Proper Shipping Name

ADR/RID: Not dangerous goods.	IMDG: Not dangerous goods.	IATA: Not dangerous goods.
(For reference only, please check.)	(For reference only, please check.)	(For reference only, please check.)

14.3Transport hazard class(es)

ADR/RID: Not dangerous goods.	IMDG: Not dangerous goods.	IATA: Not dangerous goods.
(For reference only, please check.)	(For reference only, please check.)	(For reference only, please check.)

14.4Packing group, if applicable

ADR/RID: Not dangerous goods.	IMDG: Not dangerous goods.	IATA: Not dangerous goods.
(For reference only, please check.)	(For reference only, please check.)	(For reference only, please check.)

14.5Environmental hazards

ADR/RID: No	IMDG: No	IATA: No
14.6Special precautions for user		
no data available		
14.7Transport in bulk according to I	MO instruments	
no data available		

SECTION 15: Regulatory information



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15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
2,6-Diamino-4,5,6,7-tetrahydrobenzothiazole	2,6-Diamino-4,5,6,7-tetrahydrobenzothiazole	104617-49-4	600-587-9
European Inventory of Existing Commercial	Chemical Substances (EINECS)		Not Listed.
EC Inventory			Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed.
Korea Existing Chemicals List (KECL)			Not Listed.

SECTION 16: Other information

Information on revision

Creation Date	August 19, 2021
Revision Date	August 19, 2021

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg



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 Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

• ECHA - European Chemicals Agency, website: https://echa.europa.eu/