# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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1.1 Product identifiers Product name : (S)-(-)-2,6-Diamino-4,5,6,7		(S)-(-)-2,6-Diamino-4,5,6,7-tetrahydrobenzothiazole		
	Product Number : CAS-No. :	DC131011-05 106092-09-5		
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses :	Laboratory chemicals, Manufacture of substances		
1.3	Details of the supplier of the safety data sheet			
	Company :	Tianjin Dongchang Fine Chemical Industry Co.,Ltd Yinliu Town, Ji County Tianjin China		
	Telephone :	+86 22-22892318		
	Fax : E-mail address :	+86 22-22892319 jwd@tjdongchang.com		
1.4	Emergency telephone number			
	Emergency Phone# :	+86 2229898890		
2.	HAZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture			
	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Skin irritation (Category 2) Eye irritation (Category 2) Specific target organ toxicity - single exposure (Category 3) Classification according to EU Directives 67/548/EEC or 1999/45/EC Irritating to eyes, respiratory system and skin.			
2.2	Label elements			
	Labelling according Regulation (EC) No 1272/2008 [CLP] Pictog ram			
	Signal word	Warning		
	Hazard statement(s) H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.		
	Precautionary statement(s) P261 P305 + P351 + P338	Avoid breathing dust. IFIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		

Supplemental Hazard Statements

none

# According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

R-phrase(s) R36/37/38	Initating to eyes, respiratory system and skin.
S-phrase(s)	
S26	In case of contact with eyes, rinse immediately with plenty of waterand seek medical advice.

### 2.3 Other hazards - none

3.	COMPOSITION/INFORMATION ON INGREDIENTS		
3.1	Substanœs Synonyms	<ul> <li>(6S)-4,5,6,7-Tetrahydro-2,6-benzothiazolediamine</li> <li>(S)-4,5,6,7-Tetrahydro-2,6-benzothiazolediamine</li> <li>(S)-4,5,6,7-Tetrahydrobenzo[ thiazole-2,6-diamine</li> <li>(S)-4,5,6,7-Tetrahydrobenzothiazole-2,6-diamine</li> </ul>	
	Formula MolecularWeight	: C <sub>7</sub> H <sub>11</sub> N <sub>3</sub> S : 169,24 g/mol	

Component		Concentration	
(S)-(-)-2,6-Diamino-4,5,6,7-tetra hydrobenzothia zole			
CAS-NO.	106092-09-5	-	

# 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

## General advice

Consult a physician. Show this safety data sheet to the dodor in attendance.

#### lfinhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### lfswallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- **4.2** Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and bxicological properties have not been thoroughly investigated.
- **4.3** Indication of any immediate medical attention and special treatment needed no data available

# 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

# Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

# 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information no data available

# 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containmentand cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, dosed containers for disposal.

# 6.4 Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**7.2** Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly dosed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C

Handle under nitrogen, protect from moisture. Store under nitrogen. Heat-, light-, and moisture-sensitive.

# 7.3 Specific end uses

no data available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protectiv e equipment

## Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

#### **Body Protection**

impervious dothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratoryprotection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

e)

# 9.1 Information on basic physical and chemical properties

- a) Appearance Form: solid
- b) Odour no data available
- c) Odour Threshold no data available
- d) pH no data available
  - Melting point/freezing Melting point/range: 230,1 231,1 °C point
- f) Initial boiling point and no data available boiling range
- g) Flash point not applicable
- h) Evaporation rate no data available
- i) Flam mability (solid, gas) no data available
- j) Upper/lower no data available flammability or
- k) Vapour pressure no data available

explosive limits

- I) Vapour density no data available
- m) Relative density no data available
- n) Water solubility no data available
- o) Partition coefficient: n- no data available octanol/water
- p) Autoignition no data available temperature
- q) Decomposition no data available temperature
- r) Viscosity no data availables) Explosive properties no data available
- t) Oxidizing properties no data available
- 9.2 Other safety information no data available

# 10. STABILITY AND REACTIVITY

- 10.1 Reactivity no data available
- 10.2 Chemical stability no data available
- **10.3 Possibility of hazardous reactions** no data available
- **10.4** Conditions to avoid no data available
- **10.5** Incompatible materials Strong acids and oxidizing agents

#### Hazardous decomposition products 10.6

Other decomposition products - no data available

#### **TOXICOLOGICAL INFORMATION** 11.

#### 11.1 Information on toxicological effects

# Acute toxicity no data available

Skin corrosion/irritation no data available

#### Serious eye damage/eye irritation no data available

#### Respiratory or skin sensitization no data available

#### Germ cel mutagenicity no data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

#### no data available

#### Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

# Aspiration hazard

no data available

# Potential health effects

Ingestion May be harmfulif swallowed.	
Skin May be harmful if absorbed through skin. Causes skin Causes serious eve irritation.	irritation.

## Signs and Symptoms of Exposure

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

#### Additional Information

RTECS: Not available

#### ECOLOGICAL INFORMATION 12.

- 12.1 Toxicity no data available
- Persistence and degradability 12.2 no data available
- 12.3 **Bioaccumulative potential** no data available
- Mobility in soil 12.4 no data available
- 12.5 Results of PBT and v Pv Bassessment no data available

# 12.6 Other adverse effects

no data available

13.	DISPOSAL CONSIDERATIONS				
13.1	Waste treatment methods				
	<b>Product</b> Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.				
	<b>Contaminated packaging</b> Dispose of as unused product.				
14.	TRANSPORT INFORMATION				
14.1	<b>UN number</b> ADR/RID: -	IMDG: -	IATA: -		
14.2	UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods				
14.3	<b>Transport hazard class(es)</b> ADR/RID: -	IMDG: -	IATA: -		
14.4	Packaging group ADR/RID: -	IMDG: -	IATA: -		
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no		
14.6	Special precautions for user no data available				
15.	<b>REGULATORY INFORMATION</b>				
	This safety datasheet complies with	n the requirements of Regulation (E	C) No. 1907/2006.		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture no data available				
15.2	Chemical Safety Assessment no data available				

# 16. Other information

The above information is believed to be correct based on our present knowledge but does not purport to be complete. The product is for research use only and for trained personnel. The burden of safe use of this material rests entirely with the user. TIANJIN DONGCHANG FINE CHEMICAL INDUSTRY CO, LTD disclaims all liability for any damage resulting from use of this material.