

# 1. Product and Company Identification

Product Code: Product Name: Product Use:

Manufacturer Information Company Name:

Phone Number: Web site address: Email address:

Information in case of emergency

CAS Number: Synonyms:

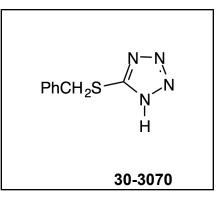
30-3070-xx

5-Benzylthio-1H-tetrazole For Research Use Only

Glen Research LLC 22825 Davis Drive Sterling, VA 20164 USA 1-703-437-6191 www.glenresearch.com msds@glenres.com 1-703-437-6191

21871-47-6

5-Benzylthio-1H-tetrazole



## 2. Hazards Identification

### **GHS Hazard Statements**

H303: May be harmful if swallowed.

H313: May be harmful in contact with skin.

H320: Causes eye irritation.

H333: May be harmful if inhaled.

# **GHS Precautionary Statements**

P103: Read label before use.

P232: Protect from moisture.

P233: Keep container tightly closed.

P280: Wear protective gloves / protective clothing / eye protection / face protection.

### **GHS Response Statements**

P301 + 330: IF SWALLOWED: Rinse mouth with water.

P302 + 350: IF ON SKIN: Gently wash with soap and water.

P304 + 340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + 351 + 338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do so - continue rinsing.

P306 + 360: IF ON CLOTHING: Rinse contaminated clothing and skin immediately with plenty of water before removing clothes.

P314: Get medical advice / attention if you feel unwell.

P362: Take off contaminated clothing and wash before use.

# **GHS Storage and Disposal Phrases**

P401 Store in a cool, dry place

P501: Dispose of contents / container in a safe way in accordance with all federal, state and local regulations.

**Emergency Overview** 

No known OSHA hazards. May cause eye, skin, and respiratory tract irritation.

Route(s) of Entry:

Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes

Potential Health Effects (Acute and Chronic)

No data available.

**Recommended Exposure Limits** 

No data available.

LD 50 / LC 50

No data available.

Signs and Symptoms of Exposure

No data available.

**Medical Conditions Generally Aggravated By Exposure** 

No data available.

3. Composition/Information on Ingredients

Product NameCAS #ConcentrationM.W.Formula5-Benzylthio-1H-tetrazole21871-47-6100 %192.23 $C_gH_gN_aS$ 

Synonyms: 5-Benzylthio-1H-tetrazole

4. First Aid Measures

**Emergency and First Aid Procedures** 

If inhaled, remove to fresh air.

If not breathing, give artificial respiration.

Get medical attention.

In case of skin contact, immediately wash skin with soap and plenty of water.

Remove contaminated clothing.

Wash clothing before reuse.

Get medical attention if symptoms occur after washing.

If swallowed, rinse mouth with water.

Get medical attention.

If in contact with eyes, rinse cautiously with water for several minutes.

Get medical attention if symptoms occur after washing.

Remove contact lenses if present and continue rinsing.

5. Fire Fighting Measures

Flash Point: No data

Explosive Limits: LEL: No data UEL: No data

**Fire Fighting Instructions** 

A finely divided dust aerosol may be explosive, although the exact conditions of the hazards are unknown.

Wear appropriate protective clothing to prevent contact with skin and eyes.

Wear a self-contained breathing apparatus (SCBA) if necessary.

Unusual Fire and Explosion Hazards: May decompose rapidly. May explode if heated above 155. C.

Flammable Properties and Hazards

No data available.

**Hazardous Combustion Products** 

Oxides of nitrogen, carbon and sulfur

Suitable Extinguishing Media

Use a Class A Extinguisher (Dry chemical, carbon dioxide, water or foam).

Unsuitable Extinguishing Media

No data available.

#### 6. Accidental Release Measures

## Steps To Be Taken In Case Material Is Released Or Spilled

Sweep up bulk of material and finish by wiping with a damp towel. Do not let product enter the drain.

Wear impermeable gloves, safety glasses and a lab coat when cleaning up the spill.

A NIOSH dust mask is recommended when a possibility of dust inhalation exists. Local exhaust is usually sufficient.

## 7. Handling and Storage

## Precautions To Be Taken in Handling

Handle using safe laboratory practices. Avoid all direct contact.

### **Recommended Storage**

Controlled room temperature or lower, dry

### **Precautions To Be Taken in Storing**

Keep container tightly closed. Store in well-ventilated place.

#### **Other Precautions**

Protect from sunlight. Protect from heat.

### 8. Exposure Controls/Personal Protection

Product NameCAS #OSHA PELACGIH TLVOther Limits5-Benzylthio-1H-tetrazole21871-47-6No dataNo dataNo data

### Respiratory Equipment (Specify Type)

A NIOSH dust mask is recommended when a possibility of dust inhalation exists.

#### **Eye Protection**

Safety glasses

### **Protective Gloves**

Impermeable gloves

#### **Other Protective Clothing**

Normal laboratory apparel

# **Engineering Controls (Ventilation etc.)**

Local exhaust ventilation is usually sufficient

# **Work/Hygienic/Maintenance Practices**

Wash hands after handling

### 9. Physical and Chemical Properties

[X] Solid

Physical State: [ ] Gas [ ] Liquid
Appearance: White Crystals
Odor: Slight sulfur odor
Odor Threshold: No data

:Ha No data 135-138°C Melting Point: Freezing Point: No data Initial Boiling Point and Boiling Range: No data Flash Point: No data Specific Gravity: ~1 Evaporation Rate (Water=1): << 1 Flammability: No data

Explosive Limits: LEL: No data UEL: No data

Vapor Pressure (vs. Air or mm Hg): No data Vapor Density (vs. Air = 1): No data Relative Density: No data Solubility in Water: No data Partition Coefficient (n-octanol/water): No data Auto-ignition Temperature: No data Decomposition Temperature: No data Viscosity: No data Percent Volatile: No data

## 10. Stability and Reactivity

Stability: Unstable [ ] Stable [X]

**Conditions To Avoid - Instability** 

Stable under recommended storage conditions.

Incompatibility - Materials To Avoid

Strong oxidizing reagents

**Hazardous Decomposition or Byproducts** 

Oxides of nitrogen, carbon and sulfur may evolve when heated to decomposition.

Possibility of Hazardous Reactions: Will occur [ ]

Conditions To Avoid - Hazardous Reactions
Stable material, hazardous polymerization will not occur.

11. Toxicological Information

Will not occur [X]

To the best of our knowledge, the toxicological properties of this substance have not been investigated.

This product should be handled with the usual care when dealing with chemicals.

Product NameCAS #NTPIARCOSHA5-Benzylthio-1H-tetrazole21871-47-6No dataNo dataNo data

12. Ecological Information

No data available.

13. Disposal Considerations

**Waste Disposal Method** 

For Product - Observe all federal, state and local regulations.

For Contaminated Packaging - Dispose of in compliance with regulations.

Sweep up bulk of material and finish by wiping with a damp towel. Dispose of unused product.

14. Transport Information

LAND TRANSPORT (49CFR)

**49CFR** Shipping Name Not a dangerous substance as defined in the regulations.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name

Not a dangerous substance as defined in the regulations.

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name

Not a dangerous substance as defined in the regulations.

Marine Pollutant: N

**Additional Transport Information** 

Not regulated as a hazardous material or dangerous goods.

15. Regulatory Information

**Regulatory Information** 

SARA 302 Components: No chemicals in this product are subject to reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

### 16. Other Information

For all other inquiries about this product contact Glen Research at 1-800-327-GLEN or 1-703-437-6191.

The information provided herein is based on sources believed to be reliable as of May 3, 2018 and pertains only to the material designated. Glen Research LLC makes no warranty or representation to its completeness, accuracy or currency. This material is intended for use by persons with the pertinent technical skills and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use and the product's proper disposal. Disposal of hazardous material may be subject to federal, state or local regulations.