



Hangzhou Tianlong Biotechnology Co., Ltd.

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

## MATERIAL SAFETY DATA SHEET

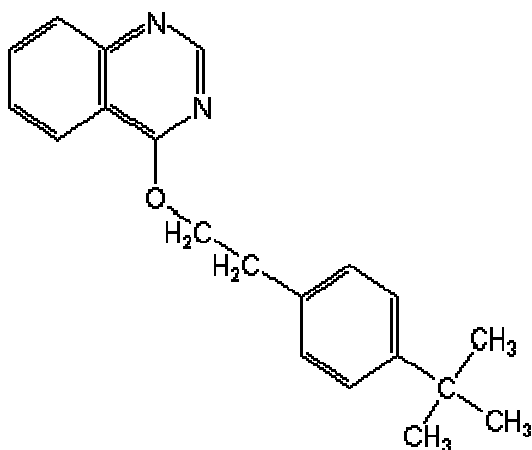
### 1. Chemical Product and company Identification

Product Name: Fenazaquin

Molecular Formula:  $C_{20}H_{22}N_2O$

Molecular Weight: 306.4

Structural Formula:



Chemical Name: 4-[[4-(1,1-dimethylethyl)phenyl]ethoxy]quinazoline

CAS No.: 120928-09-8

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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### 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Fenazaquin	120928-09-8	99.0
Other ingredients		1.0

### 3. Hazards Summarizing

Routes of exposure:

Skin, inhalation, oral

Slight toxic to aquatic organisms and bee

Carcinogenity: not likely to be carcinogenic to humans

Mutagenity: is not mutagenic

Acute exposure: fenazaquin is acutely toxic when administered orally in rats.

No data are available on acute toxicity by other routes of exposure.

Repeated exposure: repeated oral administration has been tested in rats, hamsters and dogs and the major findings include significant decrease in body

weight, body weight gain, food intake and food efficiency.

#### **4. First Aid Measures**

**Eyes:** If this product comes into contact with eyes, hold open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. Seek medical attention.

**Skin:** Wash skin immediately with copious amounts of water and soap at least 15 minutes. If feel irritation, seek medical advice.

**Inhalation:** Bring accident victims out into the fresh air. Call emergency doctor immediately.

**Ingestion:** Call emergency doctor immediately.

#### **5. Fire-Fighting Measures**

Extinguishing media:

Sprayed water jet, foam, extinguishing

Hazardous thermal (de)composition products:

In the event of fire, the formation of hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated.

Protection of fire-fighters:

Remain upwind. Use water spray to cool containers exposed to fire. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or gases.

#### **6. Accidental Release Measures**

**Personal cautions:** safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants and hats.

**Environmental precautions:** Do not empty into drains or waters. Absorb spilled product with dust-binding material or suitable vacuum-cleaner. Avoid formation of dust. Fill materials taken up into closable container. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles.

**Methods for cleaning up:** In cases where large amounts of product have become unusable, it should be established whether material utilisation is possible, (if necessary consult the manufacturing supplier).

Small amounts of the product and uncleaned empty packaging should be packed, sealed, labelled. Contact local government officials prior to disposal so they may direct you to the most suitable waste disposal plant in accordance with local statutory requirements.

#### **7. Handling and Storage**

**Handling:** When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

**Storage:** Store in original container tightly closed in a locked, dry, well ventilated place away from food, feedstuffs and water, away from a hot or

near hot place. Keep out of reach of children or animals.

#### **8. Exposure Controls/Personal Protection**

Engineering measures

Exposure control measures: Ensure adequate ventilation when handling in an enclosed space.

Personal Protective Equipment

Respiratory system: Full mask with filter

Skin and body: Wear long sleeved shirt, water proof boots and trousers worn outside of boots.

Hands: Protective gloves for chemicals.

Eyes: Goggles.

General hygiene: Wash hands and exposed skin before meals and after work. Do not eat drink or smoke when handling.

#### **9. Physical and Chemical Properties**

Form: powder

Color: Light yellowish

Melting point: 77.5-80°C

Boiling point:  $>300^{\circ}\text{C}$

Specific gravity: 1.16( $25^{\circ}\text{C}$ )

PH: 5-9

Stability: insoluble in water, easy soluble in most organic solvents.

Vapor Pressure: 0.019mPa( $25^{\circ}\text{C}$ ).

#### **10. Stability and Reactivity**

Stability: insoluble in water, easy soluble in most organic solvents.

Incompatibilities: Avoid mixed with nitric, sulfuric acid, strong oxidizing agent and reducing agent

Hazard Decomposition: Thermal decomposition products contain oxides of carbon, oxides of nitrogen.

Hazard Polymerization: Will not occur.

#### **11. Toxicological Information**

Acute toxicity

rat (oral) LD50  $> 300$  mg/kg, rat (inhaled) LC50 1.1 mg/m<sup>3</sup>, rabbit (dermal) LD50  $> 5000$  mg/kg, fish LC50, 96 hours 220  $\mu\text{g/l}$  , invertebrates EC50, 48 hours, 2,3  $\mu\text{g/l}$  , algae EC50, 72 hours, 78  $\mu\text{g/l}$  , birds 500 mg/kg  $<\text{LD50}<2000$  mg/kg , bees LD50, 48 hours,  $> 100$   $\mu\text{g/l/bee}$

Skin irritation: Irritation of the skin/rabbit: severely irritant

Eye irritation: Irritant to the mucous membranes/rabbit: severely irritant, risk of serious damage to eyes.

Sensitization: Not a sensitizer for Cavia porcellus.

Carcinogenicity: not likely to be carcinogenic to humans

Mutagenicity: is not mutagenic

#### **12. Ecological Information**

Very toxic to fish, invertebrates and water plants. Relatively harmless to bees. According to scientific assessment of chemical toxicity carried out by Antidote Europe (an alternative to standard toxicology methods, looking at how toxic chemicals affect human cells) showed following findings: 22 genes were strongly repressed in liver cells, 11 genes were significantly repressed in neuronal cells, affecting all studied functions in both cell lines.

#### **13. Disposal Considerations**

Methods of disposal:

After use: Triple rinse empty container with water and empty contents into spray tank. Destroy the empty container by puncturing and crushing. Dispose of destroyed container by taking to an approved council disposal site or alternatively bury under at least 50cm of soil in a location away from houses, crops, water supply, and ground water.

#### **14. Transport Information**

Class: 6.1

UN No: UN 2811

Packaging Group III

Moderately Hazardous

#### **15. Regulatory Information**

Safety Phrases: Keep out of reach of children

Keep away from food, drink and animal feeding stuff

Do not breathe spray

When using do not eat, drink or smoke

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible)

Use appropriate containment to avoid environmental contamination

#### **16. Other Information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.