zeta-cypermethrin 100g/l EC

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: zeta-cypermethrin 100g/l EC

Company Identification:

Company: Yongnong Biosciences Co., Ltd.

Address: No. 3, Weiqi Rd (East), Hangzhou Gulf Economy and Technology

Development Zone, Shangyu, Zhejiang, China

Tel: 86-0571- 87014660

Fax: 86-0571-87017679

P.C.: 312369

Emergency Phone: 86-800-8575300

Product Use: Insecticide

#### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture (GHS)

Acute toxicity, Oral (Category 4), H302

Eye irritation (Category 2A), H319

Skin irritation (Category 2), H315

Skin sensitization (Category 1B), H317

Carcinogenicity (Category 2), H351

Specific target organ toxicity (single exposure) (Category 3), H335, H336

Specific target organ toxicity (repeated exposure) (Category 2), H373

Acute aquatic toxicity (Category 1), H400

# 2.2 GHS Label elements, including precautionary statements (GHS)

Pictogram







Signal word

Warning

Hazard statement (s)

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H302: Harmful if swallowed

H319: Causes serious eye irritation

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H351: Suspected of causing cancer

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H373: May cause damage to organs through prolonged or repeated exposure

H400: very toxic to aquatic life

### Precautionary statement(s)

#### **Precautionary Statements - Prevention**

P202: Do not handle until all safety precautions have been read and understood

P281: Use personal protective equipment as required

P264: Wash face, hands and any exposed skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well-ventilated area

P272: Contaminated work clothing should not be allowed out of the workplace

P273: Avoid release to the environment.

P260: Do not breathe dust/fume/gas/mist/vapors/spray

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

### Precautionary Statements - Response

P308 + P313: If exposed or concerned: Gel medica! advice/attention

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for severa! minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313: If eye irritation persists: Gel medica! advice/ attention

P302 + P352: IF ON SKIN: Wash with plenty of water and soap

P362 + P364: Take off all contaminated clothing and wash it before reuse

P333 + P313: If skin Irritation or rash occurs: Gel medica! advice/attention

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for

YONGNONG BIOSCIENCES QDQD last modified at 2021-01-08 永农生物科学有限公司 breathing

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330: Rinse mouth

#### Other Information:

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS Number	Concentration (g/L)
Active ingredient:	52315-07-8	100
zeta-cypermethrin	32313 07 0	100
Inert Ingredients	-	-

#### 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

#### General advice

If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to a doctor.

#### In case of eye contact

Rinse immediately with plenty of water and seek medical advice.

# In case of skin contact

Remove all contaminated clothes and shoes. Wash off immediately with soap and plenty of water (15 - 20 minutes). Get medical attention if irritation persists.

#### If swallowed

Immediately call a poison control center or doctor Do not induce vomiting unless told to do so by a poison control center or doctor Do not give any liquid to the person Never give anything by mouth to an unconscious person Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do no! give any liquid to the person. Do not give anything by mouth to an unconscious person.

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#### If inhaled

Move to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

#### Other information:

Treat symptomatically and supportively

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Dry chemical, carbon dioxide, halon, water spray or standard foam. Unsuitable extinguishing High pressure water jet media

**Special exposure hazards:** Do not release chemically contaminated water into drains, soil and surface waters.

**Special protective:** As for all fires involving chemicals: chemical protection suit, suitable gloves equipment for fire-fighters and boots, and self-contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions

Use personal protective equipment. Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or

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disposal.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot suñaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

#### 8.1 Components with workplace control parameters

No data available

### 8.2 Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

#### 8.3 Personal protective equipment

### Eye/face protection

Far dust, splash, mist ar spray exposure, wear chemical protective goggles.

### Skin protection

Wear long-sleeved shirt, long pants, socks, and shoes.

### Respiratory protection

Far dust, splash, mist or spray exposures wear a filtering facepiece respirator (N95, R95, or P95) which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

a) Physical State

Liquid.

b) Color

Light yellow

c) Odor

Aromatic Solvent

d) pH

5.9

e) Flash point

95 °C / 203 °F

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f) Density

 $0.944 \text{g/cm}^3$ 

g) Viscosity, kinematic

40.7 mm2/s@, 22.4 °C

### 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

None under normal use conditions

#### 10.2 Chemical stability

stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing.

# 10.4 Conditions to avoid

Excessive heat

#### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

Carbon oxides (COx), Hydrogen cyanide, Hydrogen chloride, Chlorine.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral Acute oral LD50 for rats=310 mg/kg.

Dermal Acute percutaneous LD50 for rabbits >5000 mg/kg.

Inhalation LC50 (4 h) >2.03 mg/l. (4-hr) (rat)

# Dermal corrosion/irritation

Moderately irritating.

# Serious eye damage/eye irritation

Severely irritating (rabbit).

### Respiratory or skin sensitization

Sensitizer

#### Chronic toxicity

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zeta-cypermethrin: Long-term exposure caused neurotoxicity (body tremors, decreased motor activity), decreased body weight and increased liver weight.

# Mutagenicity

zeta-cypermethrin: Not genotoxic in laboratory studies

### Carcinogenicity

Cypermethrin caused an increase in benign lung tumors in mice, but not in rats. EPA has classified cypermethrin as a possible human carcinogen based on this information, but does not regulate based on its low cancer risk. There was no evidence of carcinogenic activity of naphthalene in male mice, but there was some evidence of carcinogenic activity in female mice and clear evidence of carcinogenic activity in male and female rats in 2-year inhalation studies conducted by the National Toxicology Program (NTP).

### Neurological effects

zeta-cypermethrin: Causes neurotoxicity (tremors and decreased motor activity) following acute, subchronic or chronic exposure.

# Reproductive toxicity

zeta-cypermethrin: No toxicity to reproduction in animal studies.

### **Developmental toxicity**

zeta-cypermethrin: Not teratogenic in animal studies.

### Specific target organ toxicity - single exposure

May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

no data available

# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

Crustacea EC<sub>50</sub> (48 h) =0.14  $\mu$  g/l.

Fish  $LC_{50}$  (96 h) =0.69  $\mu$  g/l.

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Algae  $EC_{50}$  (72 h) >1 mg/l.

Crustacea (21 d NOEC) =0.01  $\mu$  g/l.

Fish (21 d NOEC) =0.015  $\mu$  g/l.

# 12.2 Persistence and degradability

zeta-cypermethrin: Non-persisten!. Readily hydrolyzed. Not readily biodegradable.

#### 12.3 Bioaccumulation

zeta-cypermethrin: The substance does not have a potential for bioconcentration.

#### 12.4 Mobility

zeta-cypermethrin: Immobile, Not expected to reach groundwater.

#### 13. DISPOSAL CONSIDERATIONS

### Pesticide disposal

Burn in high temperature incinerator with effluent scrubbing or bury in a specially designated landfill. Always dispose of in accordance with local regulations

# Container disposal

Bury empty containers eighteen inches below soil surface at a safer disposable site. In a non-crop land away from water supplies. Never reuse for food or water. The used packages shall not be left outside to prevent their reuse. Packages or surplus materials, washings from the machines and containers should be disposed of in a safer manner so as to prevent environmental or water pollution.

### 14. TRANSPORT INFORMATION

#### 14.1 UN number

ADR/RID: 3082

IMDG: 3082

IATA: 3082

#### 14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID., N.O.S.

(zeta-cypermethrin)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID., N.O.S.

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(zeta-cypermethrin)

IATA: Environmentally hazardous substance, liquid, n.o.s. (zeta-cypermethrin)

# 14.3 Transport hazard class (es)

ADR/RID: 9

IMDG: 9

IATA: 9

# 14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

#### 14.5 Environmental hazards

ADR/RID: yes

IMDG: Marine pollutant, yes

IATA: yes

### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of GHS (third revised edition).

Local regulations, if any should be applied to classification and labeling.

# 16. OTHER INFORMATION

This information is provided in good faith but without express or implied warranty.

Buyer assumes all responsibility for safety and use not in accordance with label

instruction.

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