

# SAFETY DATA SHEETS

## Azocyclotin 95%TC

No.: 111037  
Version: 4  
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### SECTION 1: IDENTIFICATION

Product identifier	Azocyclotin 95%TC
Other means of identification	N/A
Recommended use	Acaricide
Supplier's details	Zhejiang Heben Pesticide & Chemicals Co., Ltd
Address	Liandun Road, Houjing, Yanjiang Industrial Area, Wenzhou, Zhejiang, China
Telephone No	+86-577-88797730; +86-577-88797721
Fax No.	+86-577-88797739
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Emergency phone number	+86-532-83889090

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 GHS classification of the substance or mixture (Ninth Revised Edition, 2021)

Physical hazards	None	None
Health hazards	Toxic if swallowed, Category 3	H301
	Fatal if inhaled, Category 2	H330
	Causes skin irritation, Category 2	H315
	Causes serious eye damage, Category 1	H318
	May cause respiratory irritation, Category 3	H335
Environmental hazards	Very toxic to aquatic life, Category 1	H400
	Very toxic to aquatic life with long lasting effects, Category 1	H410

#### 2.2 GHS label elements, including precautionary statements

Hazard pictograms	
Signal word	Danger
Hazard statement (s)	Toxic if swallowed
H301	

H315	Causes skin irritation
H318	Causes serious eye damage
H330	Fatal if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

### **Prevention statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hand and face thoroughly after handling
P265	Do not touch eyes.
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P284	Wear respiratory protection

### **Response statements**

P301+P316	IF SWALLOWED: Get emergency medical help immediately.
P302+P352	IF ON SKIN: Wash with plenty of water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P332+P317	IF skin irritation occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P320	Specific treatment is urgent (see FIRST AID on this label)
P321	Specific treatment (see first aid on this label)
P330	Rinse mouth
P391	Collect spillage

### **Storage statements**

P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed

### **Disposal statements**

P501	Dispose of contents/container to LOCAL REGULATION
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## **2.3 Other hazards which do not result in classification**

No other hazards known.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Common name, synonyms	Chemical identity	CAS number and other unique identifiers	The concentrations of the ingredients
Azocyclotin	tri(cyclohexyl)-1H-1,2,4-triazol-1-yltin; (IUPAC name)	CAS No.: 41083-11-8; EEC No.: 255-209-1	$\geq 95.0\%$
Other non-hazardous ingredients			< 5.0%

### SECTION 4: FIRST-AID MEASURES

#### 4.1 Description of necessary first-aid measures

**Skin:** Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

**Eyes:** For eye contamination, flush eyes immediately with water. Irrigate each eye continuously with normal saline during transport.

**Inhalation:** Move affected person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

**Ingestion:** Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor.

#### 4.2 Most important symptoms/effects, acute and delayed

No such information is reported.

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

No antidote, no special treatment, please treat it symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Suitable extinguishing media

Use dry chemical, carbon dioxide, water spray, and foam.

#### 5.2 Specific hazards arising from the chemical

May produce toxic fumes of carbon monoxide, stannic oxide and oxides of nitrogen if burning.

#### 5.3 Special protective equipment for firefighters

Should wear full-protective clothing, and self-contained breathing apparatus. Fight fire from safe distance and protected location. Avoid (reject) fire-fighting water to enter environment.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

In the event of major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered. Though launder protective clothing before storage or re-use. Stop leak is safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage.

### **6.2 Environmental precautions**

After spills, wash area, preventing runoff from entering drains.

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

If there is contamination of crops or waterways, advise emergency services or state department of agriculture.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Avoid direct or prolonged contact with skin and eyes. Do not breathe dust. Do not breathe vapors and mists. Do not ingest. It is recommended that wear full protective clothing including face mask, face shield and gauntlets, all skin areas should be covered, when handling this product.

Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. And take a bath or wash hands completely with soap after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1 Control parameters**

Contain no substances with occupational exposure limit values.

### **8.2 Appropriate engineering controls**

Use only in an enclosed system. Use local exhaust ventilation. Safety shower. Use explosive dust handling controls.

### **8.3 Individual protection measures**

**Industrial hygiene:** Remove and wash contaminated clothing promptly. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

#### **Personal protective equipment**

##### **Respiratory protection:**

Wear respirator with a particle filter mask (protection factor 20) conforming to European Norm EN149FFP3 or EN140P3 or equivalent.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Protective gloves:** rubber gloves;

**Eye protection:** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Color	White
Odor	Characteristic odor
Melting point / freezing point	210 °C
Boiling point or initial boiling point and boiling range	Decompose before boiling
Flammability	Not highly flammable
Lower and upper explosion limit/flammability limit	No information
Flash point	Not expected to self ignite
Auto-ignition temperature	Not expected to self ignite
Decomposition temperature	210 °C
pH value	Not determined
Kinematic viscosity	Not applicable
Solubility	In water 0.12 mg/l (20 °C). In dichloromethane 20-50, isopropanol 10-20, n-hexane 0.1-1, toluene 2-5 (all in g/l, 20 °C).
Partition coefficient n-octanol/water (log value)	logP = 5.3 (20 °C)
Vapour pressure	$2 \times 10^{-8}$ mPa (20 °C); $6.0 \times 10^{-8}$ mPa (25 °C)
Density and/or relative density	1.335g/ml (21 °C)
Relative vapor density	Not applicable
Particle characteristics	No information

### 9.2 Other information

Further safety related physical-chemical data are not known.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No reactivity under normal conditions.

### 10.2 Chemical stability

This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

#### 10.4 Conditions to avoid

Avoid fire, feed, food and beds of water.

#### 10.5 Incompatible materials

Not compatible with strong oxidizing agents.

#### 10.6 Hazardous decomposition products

Formation of toxic gases is possible during heating or in case of fire.

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Acute oral LD <sub>50</sub> for male rats 209, female rats 363, guinea pigs 261, mice 870-980 mg/kg. (Data From The e-pesticide manual (Thirteenth Edition) Version 3.0) Acute percutaneous LD <sub>50</sub> for rats >5000 mg/kg. (Data From The e-pesticide manual (Thirteenth Edition) Version 3.0) LC <sub>50</sub> (4 h) for rats c. 0.02 mg (as AE)/l air. (Data From The e-pesticide manual (Thirteenth Edition) Version 3.0)
<b>Skin corrosion/irritation</b>	Strong dermal irritant (Rabbit) (Data From The e-pesticide manual (Thirteenth Edition) Version 3.0)
<b>Serious eye damage/irritation</b>	Strong and corrosive eye irritant. (Rabbit) (Data From The e-pesticide manual (Thirteenth Edition) Version 3.0)
<b>Respiratory or skin sensitization</b>	No information
<b>Germ cell mutagenicity</b>	No information
<b>Carcinogenicity</b>	No information
<b>Reproductive toxicity</b>	No information
<b>STOT-single exposure</b>	No available data.
<b>STOT-repeated exposure</b>	Respiratory tract irritant (guinea pig) (Data From PPDB)
<b>Aspiration hazard</b>	No available data.
<b>Further information</b>	No available data.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Eco-toxicity

<b>Birds</b>	Acute oral LD <sub>50</sub> for male Japanese quail 144, female Japanese quail 195 mg/kg. (The e-pesticide manual (Thirteenth Edition) Version 3.0)
<b>Fish</b>	LC <sub>50</sub> (96 h) for rainbow trout 0.004, golden orfe 0.0093 mg/l. (The e-pesticide manual (Thirteenth Edition) Version 3.0)
<b>Daphnia</b>	LC <sub>50</sub> (48 h) 0.04 mg/l. (The e-pesticide manual (The e-pesticide manual (Thirteenth Edition) Version 3.0)
<b>Algae</b>	E <sub>b</sub> C <sub>50</sub> (96 h) for Selenastrum capricornutum 0.16 mg/l. (The e-pesticide manual (Thirteenth Edition) Version 3.0)
<b>Bees</b>	Not toxic to bees; LD <sub>50</sub> >100µg/bee (500 SC). (The e-pesticide manual (Thirteenth Edition) Version 3.0)
<b>Worms</b>	LC <sub>50</sub> (28 h) 806 mg/kg (25 WP). (The e-pesticide manual (Thirteenth Edition) Version 3.0)

### 12.2 Persistence and degradability

Half-life in soil ranges from a few days to many weeks, depending on soil type.

### 12.3 Bio-accumulative potential

BCF = 7500L/kg

### 12.4 Mobility in soil

None mobile

### 12.5 Other adverse effects

None

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Product

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

### 13.2 Contaminated packaging

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

## **SECTION 14: TRANSPORT INFORMATION**

### **IMO/IMDG:**

Proper shipping name: ORGANOTIN PESTICIDE, SOLID, TOXIC (Azocyclotin 95%)

UN NO. 2786

Class: 6.1

Packing group: III

## **SECTION 15: REGULATORY INFORMATION**

### **15.1 Safety, health and environmental regulations/legislation specific for the product in question**

WHO-classification: II (Moderate hazardous)

This product is not subject to any prohibitions or restrictions in China.

## **SECTION 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 produces 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.