

Date: Sep.13th, 2024

## Bifenthrin 95% TC SAFETY DATA SHEET

### Section 1 Product and company Identification

➤ **Product Identifier:**

**Product Name:** Bifenthrin 95% TC

**Applicant Name:** HEBEI JRRAIN TECHNOLOGY CO.,LTD.

**Application Address:** No. 66 XIANGTAI ROAD, YUHUA DISTRICT,  
SHIJIAZHUANG CITY, HEBEI PROVINCE,CHINA

**Applicant Post Code:** 050000

**Applicant Fax:** 0311-80680380

**Applicant Telephone:** 0311-80680379

**Applicant E-mail:** pan@sanlin-industry.com

**Emergency Phone(24h):** 0311-80680379

**Product recommendation and restricted use:** for pesticide formulations only.

### Section 2 Hazards Identification

➤ **Summary of emergencies:** 【Fatal if swallowed;May cause an allergic Skin reaction;Toxic if inhaled,Suspected of causing cancer;Causes damage to organs through prolonged or repeated exposure;Very toxic to aquatic life with long lasting effects.】

➤ **GHS Hazard Class:**

Acute Toxicity-Oral	Category 2
Skin sensitisation	Category 1
Acute Toxicity-inhalation	Category 3

**Carcinogenicity**

Category 2

**Specific Target Organ Toxicity-Repeated exposure**

Category 1

**Hazardous to the aquatic environment Acute hazard**

Category

1

**Hazardous to the aquatic environment Chronic hazard**

Category

1

➤ **GHS Label Elements:**

Pictogram:



➤ **Signal Word:** **Danger**

➤ **Hazard Statements:**

H300 Fatal if swallowed.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

➤ **Precautionary Statements:**

➤ **Prevention:**

P201 Obtain special instructions before use .

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

P260 Do not breathe dust/mist.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash.... 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.

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

P281 Use personal protective equipment as required.

➤ **Response:**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 IF eye irritation persists: Get medical advice/attention.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P391 Collect spillage. Hazardous to the aquatic environment.

➤ **Storage:**

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container to...

**Section 3 Composition/ Information on Ingredients**

Composition Name	Concentration(weight percent,%)	CAS No.
Bifenthrin	95%	82657-04-3
Impurity	4.4%	-
Acetone insoluble	0.3%	-
Biphenyl alcohol	0.2%	76350-90-8
Moisture	0.1%	7732-18-5

**Section 4 First Aid Measures**

**First Aid:**

**Inhalation:** If inhaled, move the patient to fresh air. Keep the respiratory tract open. If breathing is difficult, give oxygen. If breathing stops, do artificial respiration immediately. Medical treatment.

**Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off with plenty of water and consult a physician if feel uncomfortable.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

**Ingestion:** Rinse mouth. Gastric lavage, Leakage. Seek medical advice.

**Advice to protect rescuers:**

Transfer the patient to a safe place. Consult a doctor. Show this chemical safety technical specification to the doctor on site.

**Special tips for doctors:** According to the symptoms of targeted treatment. Note that symptoms may be delayed.

## Section 5 Fire Fighting Measures

**Annihilator:** Use **Spray**、**Dry chemical**、**Foam** or **Carbon dioxide**. Avoid the use of direct water to extinguish Direct water may cause spatter of flammable liquid and spread fire.

**Special Risks:** High thermal decomposition releases highly toxic fumes.

### **Precautions and protective measures:**

Firefighters should wear air-carrying breathing apparatus breathing apparatus and full-body fire-fighting clothing and fire fighting in the upper wind direction.

Remove containers from fire to open as far as possible.

Containers in the fire that have discolored or sound from safety relief devices must be evacuated immediately.

Isolation of the scene of the accident, the entry of unrelated personnel is prohibited. Shelter and disposal of fire water to prevent environmental pollution.

## Section 6 Accidental Release Measure

### **Protective measures, protective equipment and emergency handling procedures for operators:**

It is recommended that emergency workers wear air-carrying breathing apparatus, anti-static clothing and rubber oil-resistant gloves.

Prohibition of contact or crossing of leaks.

All equipment used in operation shall be grounded.

Cut the leak as far as possible.

Eliminate all sources of ignition.

The area of alert is defined according to the area affected by liquid flow, steam or dust diffusion, and the unrelated personnel are evacuated from the side wind and wind direction to the safe area.

### **Environmental Precautions:**

Take in leaks and avoid polluting the environment. Prevent leaks from entering sewers, surface water and groundwater.

Shelter, removal methods and disposal materials for leaking chemicals:

Small leakage: Avoid dust, sweep carefully, collect in airtight containers as much as possible, and transfer to a safe place for recovery or transport to a waste disposal site for disposal. It is forbidden to wash into the sewer.

Mass Leakage: Avoid dust-free, collect as much as possible in airtight containers, recycle or transport to waste disposal sites for disposal.

## **Section 7 Handling and storage**

### **➤Precautions for Handling:**

Operators should undergo specialized training and strictly observe the operating procedures.

Handling is performed in a well ventilated place.

Avoid inhalation of vapors, Avoid contact with skin and eyes.

Wear suitable protective equipment.

Keep away from heat/sparks/open flames/hot surfaces, Smoking is prohibited in the workplace.

Use explosion-proof equipment and ventilation systems.

Take precautionary measures against static discharges.

To prevent fire caused by electrostatic discharge steam, equipment on

all metal parts should be grounded.

Avoid contact with prohibited ligands such as oxidants (see part 10 for prohibited ligands).

Light unloading during handling to prevent damage to packaging and containers.

Possible residues of harmful substances in emptied containers.

Wash hands after use, prohibit eating in the workplace.

Equipped with appropriate variety and quantity of fire fighting equipment and emergency leak handling equipment.

**Precautions for Storage:**

Keep containers tightly closed.

Keep containers in a dry, cool and well-ventilated place.

Keep away from heat/sparks/open flames/hot surfaces.

Do not exceed 37°C reservoir temperature.

Storage should be separated from oxidizers and edible chemicals. Avoid mixed storage .(For substances, see Part 10).

Storage must be equipped with lightning protection equipment.

The exhaust system shall be provided with a grounding device to remove static electricity.

Use Explosion-proof lighting and ventilation.

Prohibition of the use of spark-prone equipment and tools.

Storage areas should be equipped with emergency leak handling equipment and suitable shelter materials.

## Section 8 Exposure Controls/Personal Protection

### Occupational Exposure limit Values:

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Composition	CAS	Standard sources	Type	standard value	Remarks
Bifenthrin	82657-04-3	GBZ 2.1—2007	MAC	-	Not provided
			PC-TWA	-	
			PC-STEL	-	

### Monitoring Methods:

GBZ/T 160.1 ~ GBZ/T 160.81-2004 Determination of toxic substances in the workplace air (Series effective standard).

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment.

### Engineering Controls:

Workplace recommendations separated from other workplaces.

Closed operation to prevent leakage.

Ensure adequate ventilation, especially in confined areas.

Automatic alarm and accident ventilation.

Set up emergency exit and necessary risk-elimination area.

Set up red area warning lines, warning signs and warning instructions in Chinese, and set up communication alarm system.

Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal Protective Equipment :

Respiratory protection: when the concentration in the air exceeds the standard, wear a filter gas mask (half mask). Air-carrying breathing apparatus should be worn during emergency rescue or evacuation.

Hand Protection: Wear protective gloves(e.g. rubber oil resistant gloves).

Eye Protection: Tightly fitting safety goggles.

Skin and Body Protection: Wear protective clothing.



## Section 9 Physical and Chemical Properties

**Appearance and Character:** White powder

**Odour:** No information available      **PH:** No information available

**Melting Point:** 68-71°C      **Boiling Point (°C):** 498°C

**Flash(ing) Point (°C):** 165°C

**Autogenous Ignition Temperature (°C):** No information available

**Decomposition Temperature (°C):** No information available

**Explosion Limit [% (V/V)]:** No information available

**Evaporation Rate:** No information available

**Saturated Vapor Pressure:**  $2.4 \times 10^{-5}$  Pa (25°C )

**Inflammability (solid、gas):** No information available

**Density(20°C):** No information available

**Vapour Density :** No information available

**Odour Threshold (mg/m<sup>3</sup>):** No information available

**N- octanol/water partition coefficient (lg P):** No information available

**solubility :** Soluble in acetone, ether, toluene, dichloromethane and other organic solvents, slightly soluble in alcohol.

**water-solubility :** Insoluble.

## Section 10 Stability and Reactivity

**Stability:** Stable under store and use at normal ambient temperature .Thermal stability, 220°C Not decomposed below, More stable in acidic media, Alkaline conditions are easily decomposed.

**Hazard Response:** No information available.

**Conditions for avoiding contact:** Electrostatic Discharge、Hot、Damp.

**Ligands:** Strong Oxides, Strong Acid, Strong Base .

**Hazardous decomposition products:** By high thermal decomposition, the release of highly toxic flue gas, nitrogen oxides, hydrogen chloride, cyanide.

## Section 11 Toxicological Information

**Acute toxicity:**

**Mouth:** LD<sub>50</sub> -54.5mg/kg(Rat)

**Skin:** LD<sub>50</sub>- 2000mg/kg(Rat)

**Skin irritation or corrosion:** This product stimulates the skin and mucous membrane.

**Eye irritation or corrosion:** Moderate eye irritation.

**Respiratory or skin allergy:** Irritating to skin.

**Germ cell mutation:** No mutagenicity was observed in the test dose range.

**Carcinogenicity:** No carcinogenicity was observed in the test dose range.

**Genotoxicity:** No reproductive toxicity was observed in the range of range.

**Specific target organ toxicity——One contact:** No information available.

**Specific target organ toxicity——Multiple exposure :** No information available.

## Section 12 Ecological Information

**Ecology Toxicity:**

**Acute activity inhibition test:**No information available.

**Algae growth inhibition test:**No information available.

**Toxicity to microorganisms:** No information available.

**Persistence and Degradability:** No information available.

**Bioaccumulative Potential :** No information available.

**Mobility in Soil:** No information available.

### Section 13 Disposal Considerations

**Waste chemicals:** Recycling as much as possible. If it can not be recycled, incineration is used for disposal.

This product shall not be disposed of by discharge into sewers.

**Contaminated packaging:** Return of containers to producers or disposal in accordance with national and local regulations.

**Disposal Recommendations:** Refer to relevant national and local regulations before disposal.

Safety precautions for disposal personnel refer to Section 8.

### Section 14 Transport Information

#### ➤Transporting Label



#### ➤Marine Pollutant

YES

#### ➤UN Number(UN No.)

3349

#### ➤UN Proper Shipping Name

PYRETHROID

PESTICIDE,SOLID,TOXIC

➤Transport Hazard Class 6.1

➤Packing Group II

### Section 15 Regulatory Information

➤International Chemical Inventory

Component	EINCS	TSCA	DSL	ECSC	NZIOC	PICCS	KECI	AICS	ENCS
Bifenthrin	x	x	x	√	√	x	√	x	x
Moisture	x	x	x	x	x	x	x	x	x
Acetone insoluble	x	x	x	x	x	x	x	x	x
Biphenyl alcohol	x	√	x	x	x	x	x	x	x
Impurity	x	x	x	x	x	x	x	x	x

**[EINECS]** European Inventory of Existing Commercial Chemical Substances.

**[TSCA]** United States Toxic Substances Control Act Inventory.

**[DSL]** Canadian Domestic Substances List

**[ECSC]** China Inventory of Existing Chemical Substances.

**[NZIoC]** New Zealand inventory of Chemicals.

**[PICCS]** Philippines Inventory of Chemicals and Chemical Substances

**[KECI]** Existing and Evaluated Chemical Substances.

**[AICS]** Australia Inventory of Chemical Substances.

**[ENCS]** Existing And New Chemical Substances

**Note:** "√"Indicates that the substance included in the regulations

"x" That no data or included in the regulations

### Section 16 Additional Information

Creation Date 2022/01/03

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## H e b e i J R a i n T e c h n o l o g y C o . , L t d .

**Revision Date**            2022/01/03

**Reason for Revision**     --

### **Disclaimer**

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling. storage, use or disposal of the product.

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