



上海农安国际贸易有限公司

Shanghai SafeChem International Trade Co.,Ltd.

TEL: +862150812734, 50813171, 58200369, 58306260 Fax: +862150812742

Material Safety Data Sheet

**** SECTION 1 - IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY ****

1.1 Product identifier

Product name : Bifenthrin Tech 95%

CAS-No. : 82657-04-3

1.2 Relevant identified uses of the substance and uses advised against

Uses of the substance : Insecticide

1.3. Details of the supplier of the safety data sheet

Shanghai Safechem International Trade Co., Ltd.

Rm11/A Zhong Cheng Building No.818 DongFang Road,

Pudong New Area, Shanghai 200122 China, Tel: 0086-21-50812734,58200369, Fax:0086-21-50812742

1.4 Emergency telephone number

Emergency phone number: 0086-21-58306260

**** SECTION 2 - HAZARDS IDENTIFICATION ****

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 2), H300

Acute toxicity, Inhalation (Category 3), H331

Skin sensitisation (Category 1), H317

Carcinogenicity (Category 2), H351

Specific target organ toxicity - repeated exposure (Category 1), Nervous system, H372

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]



Pictogram

Signal word : Danger

Hazard statement(s)



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- 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 (Nervous system) through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P261 Avoid breathing dust.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P311 Call a POISON CENTER /doctor.
P501 Dispose of contents/ container to an approved waste disposal Plant.

Supplemental Hazard Statements none

2.3 Other hazards

No other hazards known.

**** SECTION 3 - COMPOSITION AND INFORMATION ABOUT THE INGREDIENTS ****

3.1 Substances

Substance	Content	EC N°	CAS-number	Classification
				CLP 1272/2008
Bifenthrin (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl) -2,2-dimethylcyclopropanecarboxylate	> 95%	/	82657-04-3	Danger H300 H317 H331 H351 H372

Formula : C₂₃H₂₂ClF₃O₂

Molecular Weight : 422.87g/mol

**** SECTION 4 - FIRST AID MEASURES ****

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.



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In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

no data available

****** SECTION 5 - FIRE FIGHTING MEASURES ******

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas, Hydrogen fluoride

5.3 Advice for firefighters

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

no data available

****** SECTION 6 - ACCIDENTAL RELEASE MEASURES ******

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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.



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6.4 Reference to other sections

For disposal see section 13.

**** SECTION 7 - HANDLING AND STORAGE ****

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. .Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Store under inert gas. Air sensitive.

Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end uses

No other specific uses are stipulated

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of



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the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance level (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

9.1 Information on basic physical and chemical properties

a) Appearance

Physical State : Power

Appearance : White

b) Odour : no data available

c) Odour Threshold : no data available

d) pH : no data available

e) Melting point/freezing point : 51 - 66 °C

f) Initial boiling point and boiling range : no data available

g) Flash point : 165 °C - closed cup

h) Evaporation rate : no data available

i) Flammability (solid, gas) : Non-flammable

j) Upper/lower flammability : no data available

k) Vapour pressure : < 1 mmHg at 25 °C

l) Vapour density : no data available

m) Relative density : 1.212 g/cm³ at 25 °C

n) Water solubility : In water <1 µg/l

o) Partition coefficient (n- octanol/water) : no data available

p) Autoignition temperature : no data available

q) Decomposition temperature : no data available

r) Viscosity : no data available

s) Explosive properties : no data available

t) Oxidizing properties : no data available

9.2 Other information : no data available



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**** SECTION 10 - STABILITY AND REACTIVITY ****

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents Strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, Hydrogen fluoride

Other decomposition products - No data available

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

11.1 Information on toxicological effects

Acute oral : Acute oral LD50 for rats 54.5 mg/kg.

Acute dermal : LD50 Dermal - Rabbit - > 2,000 mg/kg

Acute inhalation : No data available

Eye and Skin : No data available

Sensitization : No data available

Germ cell mutagenicity: No data available

Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity no data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information RTECS: No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



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**** SECTION 12 - ECOLOGICAL INFORMATION ****

12.1 Toxicity

Birds

Acute oral LD50 for bobwhite quail 1800, mallard ducks 2150 mg/kg.

Fish

LC50 - Oncorhynchus mykiss (rainbow trout) - 0.15 µg/l - 96.0 h

Daphnia

LC50 - Daphnia magna (Water flea) - 0.32 µg/l - 48 h

Algae

No data available

Bees

No data available

Worms

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Harmful to aquatic life. No data available

**** SECTION 13 - INSTRUCTIONS FOR DISPOSAL ****

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.



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**** SECTION 14 - TRANSPORT INFORMATION ****

According to ADN/ADR/UK 'Carriage' Regulations/RID/IMDG/IATA classified as dangerous goods.

14.1 UN number

ADR/RID: 3349 IMDG: 3349 IATA: 3349

14.2 UN proper shipping name

ADR/RID : PYRETHROID PESTICIDE, SOLID, TOXIC (Bifenthrin)

IMDG : PYRETHROID PESTICIDE, SOLID, TOXIC (Bifenthrin)

IATA : PYRETHROID PESTICIDE, SOLID, TOXIC (Bifenthrin)

14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4 Packing group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: Yes IMDG Marine Pollutant: Yes IATA: Yes

14.6 Special precautions for user

no data available

**** SECTION 15 - REGULATORY INFORMATION ****

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1272/2008.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

**** SECTION 16 - ADDITIONAL INFORMATION ****

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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