



Material Safety Data Sheet
Trifloxystrobin TC

1. Identification of substance and company

Product Name: Trifloxystrobin TC

Company : Ningbo Huili Import & Export Co., Ltd.

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Use of Substance/Preparation: Fungicide

2. Hazards identification

Hazards class

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin sensitization (Category 1)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Health hazards:

Hazard statement(s)

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves.

P501 Dispose of contents/ container to an approved waste disposal plant.

R-phrases(s)

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S24 Avoid contact with skin.

S37 Wear suitable gloves.

S46 If swallowed, seek medical advice immediately and show this container or label.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions
Safety data sheets.

3. Composition/information on ingredients

Ingredients	CAS No.	Concentrations
Trifloxystrobin	141517-21-7	97%
Inerts		3%

4. First aid measures

If in eyes

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

If skin contact

Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

If ingestion

Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

If Inhaled

Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Indication of any immediate medical attention and special treatment needed (if necessary)

Not available

5. Firefighting measures

Fire and Explosion Hazards

In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NO_x).

Suitable extinguishing media

Water fog, foam, carbon dioxide or dry chemical.

Protection of fire-fighters

Evacuate personnel to safe areas. Avoid contact with spilled product or contaminated surfaces. Contain the spread of the fire-fighting media. Keep out of smoke. Do not allow run-off from fire fighting to enter drains or water courses. After fire is extinguished, do not turn on any ignition source until the area is determined to be free from explosion or fire hazard. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors,

mist or gas. Ensure adequate ventilation. Avoid breathing dust.

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.

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

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.

Conditions for safe storage, including any incompatibilities

Keep out of children. Store in original container tightly closed and in a locked, dry, cool area away from food stuffs.

Specific end uses

Not available.

8. Exposure control/personal protection

Appropriate engineering controls

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

Individual protection measures

Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

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.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. Physical and chemical properties

Information on basic physical and chemical properties

- a) **Appearance:** White powder.
- b) **Odour:** Not available.
- c) **Odour Threshold:** Not available.
- d) **pH:** 7.7 at 25°C (1% w/w, aqueous dispersion).
- e) **Melting point:** 72.4°C-73.1°C.
- f) **Initial boiling point and boiling range:** Not available.
- g) **Flash point:** Not available.
- h) **Evaporation:** Not available.
- i) **Flammability(solid, gas):** Not available.
- j) **Upper/lower flammability or explosive limits:** Not available.
- k) **Vapour pressure:** 3.4×10^{-6} Torr (at 25°C).
- l) **Vapour density:** Not available.
- m) **Relative density:** 1.35g/mL.
- n) **Water solubility:** 0.610mg/L.
- o) **Partition coefficient: n-octanol/water:** logPow =4.5.
- p) **Autoignition temperature:** Not available.
- q) **Decomposition temperature:** Not available.
- r) **Viscosity:** Not available.

10. Stability and reactivity

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Not available.

Conditions to avoid

Not available.

Incompatible materials

Not available.

Hazardous decomposition products

Not available.

11. Toxicological information

Acute toxicity

- a) Acute Oral Toxicity: Female Rat: LD50: 2,000-5,000 mg/kg
- b) Acute Dermal Toxicity: Rat: LD50: > 5,000 mg/kg
- c) Acute Inhalation Toxicity: Male/Female Combined Rat: LC50: 4-hr exposure to dust: > 2.74 mg/l (actual) Male/Female Combined Rat: 1-hr exposure to dust (extrapolated from 4-hr LC50): > 10.96 mg/l (actual).

Skin corrosion/irritation

signs of irritation and/or corrosion were not observed, and the dermal irritation index of the substance is 0.

Serious eye damage/eye irritation

Rabbit: Mild irritation to the cornea and conjunctiva was observed with all

irritation clearing within 7 days post-treatment.

Respiratory or skin sensitization

Guinea pig: Not a dermal sensitizer.

Germ cell mutagenicity

Trifloxystrobin has been tested for its potential to induce gene mutation and chromosomal changes in 5 different test systems. Taken collectively, these studies demonstrate trifloxystrobin is not genotoxic or mutagenic.

Carcinogenicity

Trifloxystrobin did not cause any treatment-related increase in general tumor incidence, any elevated incidence of rare tumors, or shortened time to the development of palpable or rapidly lethal tumors in an 18- month mouse and a 24-month rat study.

Reproductive toxicity

In a two generation reproduction study using rats, trifloxystrobin was not a primary reproductive toxicant.

STOT-single exposure: Not available.

STOT-repeated exposure: Not available.

Aspiration hazard: Not available.

12. Ecological information

Toxicity

Fish LC₅₀ (96 h) for rainbow trout 0.0074, high toxic to fish.

Japanese quail LD₅₀(7d)>1000mg/kg.

LC₅₀ for bee 264mg/L.

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not available.

13. Disposal consideration

General Disposal Guidance

Dispose in accordance with all local, state/provincial and federal regulations. Follow container label instructions for disposal of wastes generated during use in compliance with the product label. It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.

Contaminated packaging

Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dis- pose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

14. Transport information

UN number

ADR/RID: 3077 IMDG: 3077 IATA: 3077

UN proper shipping name

ADR/RID: Environmentally Hazardous Substance, Solid, N.O.S. (Trifloxistrobin)

IMDG: Environmentally Hazardous Substance, Solid, N.O.S. (Trifloxistrobin)

IATA: Environmentally Hazardous Substance, Solid, N.O.S. (Trifloxistrobin)

Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

Packing group

ADR/RID: III IMDG: III IATA: III

Environmental hazards

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

Special precautions for user

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. Regulatory information

In P. R. CHINA, this product is regulated by ICAMA under the National Pesticides Act. It is a violation of national law to use this product in a manner inconsistent with its labeling.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. The customer assumes all responsibility for safety and use not in accordance with label instructions.