SAFETY DATA SHEET

TRIFLOBIN 50WDG

SECTION 1: IDENTIFICATION

Product identifier	Trifloxystrobin 50% WG
Other means of identification	N/A
Recommended use	Fungicide
Supplier's details	HEBEI SHANLI CHEMICAL CO., LTD. Eighteenth Team, Zhongjie Farm, Cangzhou City, Hebei Province
Telephone No	+86-25-86668769
Fax No.	+86-25-52782848
E-mail	19791112@qq.com
Emergency phone number	+86-532-83889090

SECTION 2: HAZARDS IDENTIFICATION

2.1 GHS classification of the substance or mixture

Physical hazards	None	None
Health hazards	Acute toxicity, dermal, Category 5	H313
	Skin sensitization, Category 1	H317
Environmental hazards	Hazardous to the aquatic environment, long-term hazard, Category 3	H412

2.2 GHS label elements, including precautionary statements

Hazard pictograms



Signal word	Warning
Hazard statement (s)	
H313	May be harmful in contact with
H317	skin May cause an allergic skin reaction.
H362	May cause harm to breast fed children.
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects.

Prevention statements

P261	Avoid breathing dust/ mist/ vapors/ spray.
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.

Response statements

P301+P317	IF SWALLOWED: Get medical help.
P302+P317	IF ON SKIN: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Storage statements

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

Disposal statements

P501	Dispose of contents/container to local regulations.

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
Trifloxystrobin	methyl (E)-methoxyimino-{(E)-α-[1-(α, α,α-trifluoro-m-tolyl) ethylidene aminooxy]-o-tolyl} acetate (IUPAC name)	CAS No.: 141517-21-7 EC No.: 604-237-6	50%
Other non-hazardous ingredients			To 100%

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary first-aid measures

Skin: Wash off with soap and plenty of water. Consult a physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. **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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Specific hazards arising from the chemical
Carbon oxides, Hydrogen chloride gas, Nitrogen oxides (NOx) and Sulphur oxides.
5.3 Special protective equipment for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, 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.

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.
7.2 Conditions for safe storage, including any incompatibilities:
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters
Contain no substances with occupational exposure limit values.

8.2 Appropriate engineering controls

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

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: Nitrile 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	Granule
Color	Off-white
Odor	Odorless
Melting point / freezing point	Not applicable for mixture.
Boiling point or initial boiling point and boiling range	Not applicable for mixture.
Flammability	Not flammable
Lower and upper explosion limit/ flammability limit	Not known.
Flash point	No data available
Auto-ignition temperature	Not expected to self-ignite
Decomposition temperature	Not applicable for mixture.
pH value	5.0-8.0
Kinematic viscosity	No data available
Water solubility	Dispersible
Partition coefficient n-octanol/water (log value)	Generally, not applicable for mixture.
Vapor pressure	Not applicable for mixture.
Density and/or relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available

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, 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

Acute toxicity	Acute oral LD_{50} for rats >2000 mg/kg Acute dermal LD_{50} for rats >2000 mg/kg Acute inhalation LC_{50} (4h) for rats >4.27mg/L air
Skin corrosion/irritation	Mild irritation to skin (Rabbit)
Serious eye damage/irritation	Mild eye irritation. (Rabbit)
Respiratory or skin sensitization	Not a skin sensitizer.
Germ cell mutagenicity	Trifloxystrobin: Negative in Ames and micronucleus tests.
Carcinogenicity	Trifloxystrobin: No carcinogenic effects.
Reproductive toxicity	Trifloxystrobin: No reproductive and developmental effects.
STOT-single exposure	No available data.
STOT-repeated exposure	No available data.
Aspiration hazard	No available data.
Further information	No available data.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Eco-toxicity

Birds	Trifloxystrobin: Acute oral LD50 for bobwhite quail >2000, mallard ducks >2250 mg/kg. Dietary LC_{50} for bobwhite quail and mallard ducks >5050 ppm.
Fish	Trifloxystrobin: LC_{50} (96 h) for rainbow trout 0.015, bluegill sunfish 0.054 mg/l.
Daphnia	Trifloxystrobin: LC_{50} (48 h) 0.016 mg/l.
Algae	Trifloxystrobin: E_bC_{50} for *Scenedesmus subspicatus* 0.0053 mg/l.
Bees	Trifloxystrobin: LD_{50} (oral and contact) >200 µg/bee.
Worms	Trifloxystrobin: LC_{50} (14 d) >1000 mg/kg soil.

12.2 Persistence and degradability

Trifloxystrobin: Dissipates rapidly from soil and surface water. Soil DT_{50} 4.2-9.5 d. Koc 1642-3745. No leaching potential. In water, DT_{50} 0.3-1 d, DT90 4-8 d.

12.3 Bio-accumulative potential

An estimated BCF of 431 suggests the potential for bioconcentration in aquatic organisms is in the threshold for concern. K_{OW} logP = 4.5 (pH 7).

12.4 Mobility in soil

Trifloxystrobin is slightly mobil in soil. EU dossier Kf range 11.2-325 mL/g, Koc range 1642-3745 mL/g, Soils=6

12.5 Other adverse effects

None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 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 chemical incinerator equipped with an afterburner and scrubber.

13.2 Contaminated packaging Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO:

UN number: 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trifloxystrobin)

Transport hazard class: 9
Packing group: Ⅲ
Environmental hazards: yes
Special precautions for user: None.
Transport in bulk according to IMO instruments: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the product in question
WHO-classification: U (Unlikely to present acute hazard)
This product is not subject to any prohibitions or restrictions in China.

SECTION 16: OTHER INFORMATION

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