

SAFETY DATA SHEET (SDS)

TITLE: TRIFLOXYSTROBIN 500 WG

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Product Name : CIBA TRIFLOXYSTROBIN 500 WG
Common Name : Trifloxystrobin 500 g/kg WG
CAS No. : 141517-21-7
EC No. : NA

1.2 Relevant identified uses of the substance: insecticide

1.3 Details of the Manufacturer / Supplier of the safety data sheet:

Supplier CIBA AGRIPHARMA SARL
78 Boulevard Haussmann
75008 Paris , France
Tel Tel: +33 6 51 39 90 00
E-mail administration@ciba- agripharma.com
Webpage www. ciba- agripharma.com

1.4 Emergency Phone Number (24 hours)

+33 6 51 39 90 00

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the mixture:

Classified in accordance with Part 2 of the Hazardous Products Regulations

Acute toxicity(Inhalation): Category 4

Skin sensitisation: Category 1B

Reproductive toxicity: Effects on or via lactation

Labelling in accordance with Part 3 of the Hazardous Products Regulations

Hazard pictograms :



Signal word: Warning

Hazard statements

Harmful if inhaled.

May cause an allergic skin reaction.

May cause harm to breast-fed children.

Precautionary statements

Avoid contact during pregnancy/ while nursing.

Obtain special instructions before use.

Use only outdoors or in a well-ventilated area.

Do not breathe dust or mist.

Wear protective gloves.

Contaminated work clothing should not be allowed out of the workplace.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

IF ON SKIN: Wash with plenty of water/ soap.

If skin irritation or rash occurs: Get medical advice/ attention.

Specific treatment (see supplemental first aid instructions on this label).

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/ attention.

Dispose of contents/container in accordance with local regulation.

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Trifloxystrobin	141517-21-7	50.0
Reaction product of naphthalene, butanol, sulfonated and		5.0

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information

When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

4.1.2 In case of inhalation

Wearing proper respiratory protection before rescues. Immediately remove the affected victim from exposure to an area of fresh air. If not breathing, give artificial respiration; if breathe difficult, give oxygen. Get medical attention.

4.1.3 In case of skin contact

Flush with large amount of water; use soap or detergent if available. Remove grossly contaminated clothing, including shoes, and launder before reuse.

4.1.4 In case of eyes contact

Flush eyes with large amount of water until irritation subsides. If irritation persists, get medical attention.

4.1.5 In case of ingestion

If swallowed, rinse mouth with water. Keep patient at rest. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless told to by a poison control centre or doctor. Get immediate medical attention.

4.1.6 Note to physician

No specific antidote. Treat symptomatically and supportively.

4.1.7 Most important symptoms and effects, both acute and delayed :

This product or its components may have long term chronic health effects. No specific medical conditions are known which may be aggravated by exposure to this product. As with all materials which can cause upper respiratory tract irritation, persons with a history of asthma, emphysema or hyperactive airways disease may be more susceptible to overexposure.

5.0 FIRE – FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Foam, dry chemical, water spray or CO2 to extinguish fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : N/A

5.3 Advice for fire-fighters

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Keep unnecessary people away. Use as little water as possible. Dike area of fire to prevent material run-off. Decontaminate emergency personnel with soap and water before leaving the fire area. Avoid breathing dusts, vapours and fumes from burning materials. Control run-off water.

5.4 Fire and Explosion Hazards:

Flash point: >58°C. This product can form combustible mixtures at temperatures at or above the flash point. It may produce a floating fire hazard in extreme fire conditions.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 Personal precautions

Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into drains or rivers. Do not allow to enter soil, waterways or waste water canal. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

6.3 Methods and material for containment and cleaning up

Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental precautions.

6.3.1 Other information

N/A

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information

In case materials are released, contact emergency response personnel. Keep unnecessary persons away. If emergency response personnel are unavailable, absorb small spills on spill pillows or other suitable absorbing material (sand or earth) and place in a sealed container for disposal. Dike large spills and transfer to an appropriate container for disposal. Avoid contact of spilled materials and runoff with soil and surface waterways. Use suitable protective equipment (Section 8). Follow all fire prevention procedures (Section 5).

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Protect against physical damage. Use non-sparking type tools and equipment, including explosion proof ventilation. Do not contaminate lakes, streams, and ponds.

7.1.2 Advice on general occupational hygiene

Avoid contact with eyes, skin or clothing. Do not breathe spray mist. When using, do not eat, drink, or smoke. Wash hands and exposed skin before meals and afterwork. Wash out container thoroughly and dispose of safely.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Store in the original container and keep closed. Store in cool, dry and well-ventilated place. Do not use, pour, or store near heat or open flame.

Further information on storage conditions : Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

effective ventilation in all processing areas

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

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection

Remarks : Impervious gloves

Skin and body protection : Impervious clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance brown

Physical State water-dispersible granules

Odor none

Odour Threshold No data available

pH 9 - 11 (1 %) (23 °C) (Distilled water)

dispersion in water

Viscosity, kinematic No data available

Vapor Pressure No data available

Vapor Density (Air = 1) No data available

Density No data available

Bulk density 0.43 - 0.51 g/cm³ (loose)

Evaporation rate Not applicable

Boiling Point No data available

9.2 Other information N/A

10.0 STABILITY AND RELIABILITY

10.1 Reactivity

No information available

10.2 Chemical stability

Stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known

10.4 Conditions to avoid

Avoid extreme heat

10.5 Incompatible materials

Avoid mix with strong oxidizing agent and alkaline substance.

10.6 Hazardous decomposition products

The substance decomposes on burning, and producing toxic and corrosive fumes.

10.7 Hazard Polymerization

Will not occur.

11.0 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity	: LD50 (Rat, male): > 5,000 mg/kg LD50 (Rat, female): > 2,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 1.94 mg/l Exposure time: 4 h Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
LD50 (Mouse, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.4 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhalation toxicity

Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402

12.0 ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.4 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.4 mg/l

Exposure time: 48 h

Toxicity to algae

EC50 (Pseudokirchneriella subcapitata (green algae)): 1.3 mg/l

Exposure time: 72 h

12.2 Persistence and degradability

Biodegradability : Result: Not readily biodegradable.

Remarks: Not readily biodegradable.

Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.

Remarks: Not readily biodegradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water : log Pow: 3.4 (25 °C)

12.4 Mobility in soil

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

13.0 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Container and washing must be disposed to an approved facility.

13.2 Product / Packaging disposal

13.2.1 Product waste disposal

Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

13.2.2 Packing waste disposal

Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

14.0 TRANSPORT INFORMATION

TDG

UN number 3077

Labels 9

Packaging group III

Marine pollutant Marine pollutant

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(TRIFLOXYSTROBIN)

49CFR Not dangerous goods / not hazardous material

IMDG

UN number 3077

Class 9

Packaging group III

Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(TRIFLOXYSTROBIN MIXTURE)

IATA

UN number 3077

Class 9

Packaging group III

Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(TRIFLOXYSTROBIN MIXTURE)

15.0 REGULATORY INFORMATION

PCP Registration No. 27527

PMRA Information:

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

This chemical is a pest control product regulated by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

Signal word: Caution!

Hazard statements: Causes moderate eye irritation.

Harmful if absorbed through skin.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

16.0 OTHER INFORMATION

16.1 Further Information

The information contained herein relates only to the specified material identified. CIBA AGRIPHARMA believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. CIBA AGRIPHARMA urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.