

VILLA ACADEMY 250 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ACADEMY 250 SC
Other identifier: Picoxystrobin 250 SC
Recommended use: Fungicide
Restrictions on use: Agriculture

Supplier: Villa Crop Protection (Pty) Ltd.
 PO Box 10413
 Aston Manor, 1630, South Africa

Telephone: (011) 396 2233
Fax: (011) 396 4666
Website: www.villacrop.co.za

Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
 Envirosure. +27 31 205 4918
 (Hazcall24) +27 86 044 4411
 (Client: Villa Crop Protection)
 Griffon Poison Information Centre +27 82 446 8946
 (Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:
 Griffon Poison Information Centre +27 82 446 8946
 Poisons Information Centre +27 861 555 777

Villa Crop Protection Emergency number:
National Safety, Health and Environmental Manager:
 +27 63 698 0668

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Health		
Oral	Acute Tox. 5	H303
Dermal	Acute Tox. 5	H313
Inhalation	Acute Tox. 2	H332
Environment		
Aquatic acute	Aquatic acute 1	H400
Aquatic chronic	Aquatic chronic 1	H410

The most important adverse effects:
Physiochemical effects:
 None known.
Human health effects:
 None known.
Label elements:



Signal word: Warning.
Hazard statements:
 H303: May be harmful if swallowed.
 H313: May be harmful in contact with skin.
 H332: Harmful if inhaled.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release into the environment.
 P391: Collect spillage.
 P501: Dispose of contents/container to suitable landfill in accordance with local regulations.

Special labelling of certain mixtures:
 None known.
Other hazards:
 None known.
Toxicity:
 Classification according to GHS: Category 4.
 Classification according to WHO: Category 3.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Picoxystrobin	117428-22-5	25 %	Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Disinfectant	55965-84-9	< 0.1 %	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Sens. 1 (H317) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.
Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

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Skin: Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if skin irritation persists.
Eyes: Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention.**
Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If alert, rinse mouth with plenty of water.
Anticipated acute effects: None known.
Anticipated delayed effects: None known.
Most important symptoms/effects: None known.
Advice to physician: Treat symptomatically and supportively. No specific antidote known.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water, foam carbon dioxide or dry chemical.
Unsuitable Extinguishing Media: Water jet due to contamination risk.
Specific hazards: Expected to release oxides of Nitrogen and carbon if heated.
Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.
Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate the spill area. Do not breathe in fumes. Avoid contact with skin and eyes. Avoid the creation of static discharges.
Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.
Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. Do not discharge into soil/subsoil. This product is classified to be very toxic to aquatic organisms and may cause long-

term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into water courses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Contain spilled product by diking area with sand, earth or vermiculite.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Large spills should be diked with absorbent material and pumped into containers for disposal. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Incinerate or take to a special waste disposal site in accordance with local authority regulations. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling: Precautions for safe handling: Do not inhale fumes or mists. Avoid contact with skin, eyes and clothes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used again.

Storage: Conditions for safe storage: Store in its original container in dry, cool, well-ventilated area. Do not store near heat or sources of ignition. Take precautions to avoid static discharges which may ignite organic vapours. Not to be stored next to foodstuffs, feed and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: Contains no components with occupational exposure limit values.

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Engineering Controls: It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment (Product Dependent):

Respiratory Protection: Wear respiratory protection if ventilation is inadequate in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).

Hand Protection: The use of chemically protective, impervious gloves is recommended to prevent against skin contact. These should satisfy the EN 374 standard (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employee must wear appropriate impervious clothing depending on the activity and possible exposure; apron, boots, hat, chemical protection suite and equipment to prevent repeated or prolonged skin contact with this substance (according to DIN-EN 465).

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white liquid, suspension concentrate.

Odour: Faint odour.

pH (1% aqueous dilution): 6.0 to 8.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: > 100 °C.

Flammability: Not available.

Upper/lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density: 1.11 g/ml.

Solubility: Suspends in water.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: 80 mPa.s at 25°C.

10. STABILITY AND REACTIVITY

Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions. Stable for up to 2 years when stored in a dry, cool covered warehouse in original, well-labelled containers. Store at low temperature conditions, below 50°C, preferably below 30 °C and not for prolonged periods in direct sunlight.

Reactivity: None known.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Extreme heat or exposure to flames. Protect from frost and temperatures < -5°C.

Incompatible Materials: None known.

Hazardous Decomposition Products: Hazardous gases may be released under heating or combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS:

Oral LD₅₀ (24 h) rat > 7400 mg/kg.

Dermal LD₅₀ (24 h) rat > 7300 mg/kg.

Inhalation LC₅₀ (4 h) > 1.12 mg/l.

Skin Irritation/Corrosion: May cause mild irritation.

Eye Damage/Irritation: May cause mild irritation.

Skin Sensitization: Product is not a skin sensitizer.

Respiratory Sensitization: Harmful if inhaled. May cause irritation if inhaled.

Reproductive cell mutagenicity: Not available.

Carcinogenicity: Not available.

Reproductive toxicity: Not available.

Specific target organ toxicity – single exposure: Not available.

Specific target organ toxicity – repeated exposure: Not available.

Aspiration hazard: Not available.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: None known.

Skin contact: None known.

Eye contact: None known.

Ingestion: None known.

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life with long lasting effects.

ECOTOXICITY DATA: Based on Picoxystrobin technical.

Fish:

LC₅₀ (96 h) (two species) 65 to 75 µg/l.

Daphnia:

EC₅₀ (48 h) 18 µg/l.

Algae:

E_bC₅₀ (72 h) *Selenastrum capricornutum* 56 µg/l.

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Other aquatic organisms:

EC ₅₀	<i>Chironomus riparius</i>	
	(28 d, dosed to sediment)	19 mg/kg.
	(25 d, dosed to water)	140 µg/l.

Birds:

LD ₅₀	Bobwhite quail	>2250 mg/kg.
Dietary LD ₅₀ (8 d)	Bobwhite quail	>5200 mg/kg.
NOEC (21 w)	Mallard ducks	1350 mg/kg.

Bees:

LD ₅₀ (48 h, contact and oral)		>200 µg/bee.
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Worms:

LC ₅₀ (14 d)	<i>Eisenia foetida</i>	6.7 mg/kg soil.
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Plants:

Residues in cereals are low (<0.01 – 0.20 mg/kg).

ENVIRONMENTAL EFFECTS:

Persistence and degradability: Rapidly degraded in soils, with CO₂ as the major product; lab. DT₅₀ (aerobic) 19–33 d; field dissipation DT₅₀ 3–35 d. Not mobile in soil under field conditions; K_{oc} 790–1200 ml/g. Rapid dissipation in water indicates no chronic issues for aquatic organisms; water phase DT₅₀ 7–15 d (lab. and outdoor water sediment systems).

Bio-accumulative Potential: Not determined.

Mobility in soil: Not determined.

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Disposal should be done by a certified incineration plant. Comply with local legislation applying to waste disposal.

Container: Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Add the rinsings to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Comply with local legislation applying to waste disposal.

14. TRANSPORT INFORMATION

UN Number:	3082
Road Transport ADR/IRD:	
Class:	9
Packaging group:	III
UN Proper Shipping Name:	Environmentally hazardous substance, Liquid, N.O.S. (Picoxystrobin 250 g/l).

Maritime Transport IMDG/IMO:

Class:	9
Packaging group:	III
UN Proper Shipping Name:	Environmentally hazardous substance, Liquid, N.O.S. (Picoxystrobin 250 g/l).

Marine Pollutant (Y/N): Yes

Air Transport IATA/ICAO:

Class:	9
Packaging group:	III
UN Proper Shipping Name:	Environmentally hazardous substance, Liquid, N.O.S. (Picoxystrobin 250 g/l).

Special/Environmental Precautions: Wedge drums tightly to avoid movement.

Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

OHSA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 1, 2, 5, 10 and 20 litres plastic containers, labelled according to South African regulations and guidelines.

Additional H statements (formulants):

- H301: Toxic if swallowed.
- H311: Toxic in contact with skin.
- H317: May cause an allergic skin reaction.
- H331: Toxic if inhaled.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

Compiled:	June 2014
Reviewed:	March 2019

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Revision no.: (3)
Next revision: March 2024

For detailed information on revisions, contact the Registration holder.