

FACULTY TOP 250 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FACULTY TOP 250 SC
Other identifier: Prothioconazole + Picoxystrobin 250 SC
Recommended use: Fungicide
Restrictions on use: Agriculture + Small scale farming
Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
 PO Box 801,
 Kempton Park, 1620, South Africa
Telephone: (011) 396 2233
Fax: (011) 396 4666
Website: www.villacrop.co.za

Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
 (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

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Health		
Dermal	Skin Sens. 1	H317
Eye	Eye Irrit. 2	H319
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:
 May cause an allergic skin reaction (Skin Sens.1).
 Causes serious eye irritation (Eye Irrit. 2).

Label elements:



Signal word: Warning.

Hazard statements:

H317: May cause an allergic skin reaction
 H319: Causes serious eye irritation
 H400: Very toxic to aquatic life
 H410: Very toxic to aquatic life with long lasting effects

Precautionary statements:

P261: Avoid breathing dust, fumes, mists, gas, vapours or spray.
 P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P273: Avoid release into the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P321: See label for specific treatment.
 P333+P317: If skin irritation or rash occurs: Get medical help.
 P337+P317: If eye irritation persists: Get medical help.
 P391: Collect spillage.
 P501: Dispose of contents/container in accordance with local regulations.

Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Not Classified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Picoxystrobin	117428-22-5	14.37%	Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Prothioconazole	178928-70-6	9.48%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Ethoxylated fatty alcohol	68131-39-5	< 1%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

FACULTY TOP 250 SC

SAFETY DATA SHEET

Ethylene glycol	107-21-1	< 10%	Acute Tox. 4 (H302)
1,2-benzisothiazoxolin-3-one	2634-33-5	< 1%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)

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.

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.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

Eyes: Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. Seek medical attention if irritation persists.

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 the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects:

May cause an allergic skin reaction.

Causes serious eye irritation.

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: Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam.

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.

Specific hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate area of spill or leak, especially in contained areas.

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. This product is classified to be very toxic to aquatic organisms and will cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses 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 or earth.

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. 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. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: May be harmful if swallowed. Avoid contact with skin. 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.

FACULTY TOP 250 SC

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.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Ethylene glycol (vapour)	60 mg/m ³	TWA OEL-RL	Occupational Health and Safety Act, 1993

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 OELs 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:

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator.

Hand Protection: The use of chemically protective gloves is recommended to prevent against skin contact.

Eye Protection: This product is not classified as an eye irritant, but as a precaution chemical safety goggles can be used to prevent against eye contact.

Skin and Body Protection: Employee should wear appropriate protective clothing; boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

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: White suspension concentrate, homogeneous when mixed.

Odour: Faint.

pH (1% aqueous dilution): 7.1 at 13 °C.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not available.

Flammability: Not flammable.

Upper/lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density: 1.082 g/ml at 18 °C.

Solubility: Forms a suspension in water.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight. **Reactivity:** None known.

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid: Extreme heat or exposure to flames.

Incompatible Materials: Strong oxidizers, strong bases, strong reducing agents.

Hazardous Decomposition Products: Alcohols. Carbon monoxide and carbon dioxide may form under burning conditions or with incomplete combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Based on experimental data

Oral LD₅₀ (14d) rat > 5000 mg/kg

Dermal LD₅₀ (14d) rat > 5000 mg/kg

Inhalation LC₅₀ (4h) rat > 5.0 mg/l

Skin Irritation: Not a skin irritant.

Eye Irritation: Causes serious eye irritation.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: Not a respiratory sensitizer.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

FACULTY TOP 250 SC

SAFETY DATA SHEET

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: Not classified.

Aspiration hazard: Not classified.

Chronic Effects: Not classified.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Not classified.

Skin contact: May cause an allergic skin reaction.

Eye contact: Causes serious eye irritation.

Ingestion: Not classified.

12. ECOLOGICAL INFORMATION

This product is considered a marine pollutant.

ECOTOXICITY DATA:

Picoxystrobin

Fish:

LC₅₀ (96 h) 65 - 75 ug/l.

Daphnia:

EC₅₀ (48 h) 18 ug/l.

Algae:

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

Birds:

LD₅₀ Bobwhite quail > 2250 mg/kg.
Dietary LD₅₀ (8d) > 5200 mg/kg

Bees:

LD₅₀ contact & oral > 200 mg/bee.

Worms:

LC₅₀ (14d) *Eisenia foetida* > 6.7 mg/kg soil.

Prothioconazole

Fish:

LC₅₀ (96 h) Rainbow trout 1.83 mg/l.

Daphnia:

Acute LC₅₀ (48 h) 1.30 mg/l.

Algae:

E_bC₅₀ *Pseudokirchneriella subcapitata* 1.10 mg/l.

E_rC₅₀ 2.18 mg/l.

Birds:

Acute oral LD₅₀ Bobwhite quail > 2000 mg/kg.
Dietary LC₅₀ (5d) > 5000 mg/kg

Bees:

LD₅₀ contact > 200 mg/bee.
LD₅₀ oral > 71 mg/bee.

Worms:

LC₅₀ (14d) Earthworms > 1000 mg/kg dry soil.

ENVIRONMENTAL EFFECTS:

Picoxystrobin

Plants: Residues in cereals are low (<0.01-0.20 mg/kg).

Persistence and degradability: Rapidly degrades 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.

Prothioconazole

Plants: The metabolism of prothioconazole proceeds through oxidative and cleavage reactions. The major metabolites are prothioconazole-desthio and triazolylalanine, triazolylhydroxypropionic acid and triazolylacetic acid. No free 1,2,4-triazole was detected in any plant matrix.

Persistence and degradability: Prothioconazole is rapidly degraded to prothioconazole-desthio and prothioconazole-S-methyl. For prothioconazole, prothioconazole-desthio and prothioconazole-S-methyl, soil DT₅₀ (lab., 20 °C) 0.07 - 1.3 d, 7 - 34 d, and 6 - 46 d, respectively; K_{oc} 1765 ml/g, 523 - 625 ml/g and 1974 - 2995 ml/g, respectively. Prothioconazole

degraded rapidly in water/sediment systems under aerobic conditions (DT₅₀ for total system 2-3 d); major metabolites are prothioconazole-desthio and 1,2,4-triazole (detected in water layer) and prothioconazole-S-methyl (in sediment).

Bio-accumulative Potential and Mobility in soil: Parent compound and metabolites show low potential for leaching or accumulation.

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. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Invert the empty container over the spray or mixing tank

FACULTY TOP 250 SC

and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank.
Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages. Observe all labelled safeguards until container is destroyed.

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. (prothioconazole 100 g/l + picoxystrobin 150 g/l)

Maritime Transport IMDG/IMO:
Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, Liquid, N.O.S. (prothioconazole 100 g/l + picoxystrobin 150 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. (prothioconazole 100 g/l + picoxystrobin 150 g/l)

Special/Environmental Precautions: Wedge drums tightly to avoid movement.
Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

15. REGULATORY INFORMATION

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

SAFETY DATA SHEET

16. OTHER INFORMATION

Packaging: Packed in 100, 150, 200, 250, 500 ml & 1, 2, 5, 10, 20, 25 and 50 litres plastic containers, labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Cause serious eye damage.
H332: Harmful if inhaled.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization.

LD₅₀ value: The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

OEL/RL: Occupational exposure limit-recommended limit.

TWA: Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

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

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For detailed information on revisions, contact the Registration holder.