CAPITA 300 SC SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **CAPITA 300 SC**
Other identifier: **Azoxystrobin Boscalid 300 SC**
Recommended use: Fungicide
Restrictions on use: Agriculture

Supplier: **Villa Crop Protection (Pty) Ltd.**
Co. Reg. No.: 1992/002474/07
65 Botes road, Glen Marais, Kempton Park, 1619
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		
Oral	Acute Tox. 4	H302
Dermal	Acute Tox. 5	H313
Environment		
Aquatic chronic	Aquatic chronic 1	H410

The most important adverse effects:
Physiochemical effects: None known.
Human health effects:
Harmful if swallowed.
May be harmful in contact with skin.
Label elements:

Signal word: Warning.

Hazard statements:
H302: Harmful if swallowed.
H313: May be harmful in contact with skin.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:
P264: Wash hands and face thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P301+P317: IF SWALLOWED: Get medical help
P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P391: Collect spillage.
P330: Rinse mouth.
P501: Dispose of contents/container in accordance with local regulations.
Other hazards:
None known.
Toxicity:
Classification according to GHS: Category 4.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Boscalid Tech 98%	188425-85-6	18.7%	Aquatic Chronic 2 (H411)
Azoxystrobin	131860-33-8	9.4 %	Acute toxicity 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Ethoxylated tristyrylphenol phosphate	99734-09-5	< 5 %	Aquatic Chronic 3 (H412)
Synthetic polymer	26873-85-8	< 5 %	Not classified.
Siloxane	9006-65-9	< 1 %	Not classified.
MEG	107-21-1	< 5 %	Acute toxicity 4 (H302)
Xanthum Gum	11138-66-2	< 1 %	Not classified.
1, 2-benzisothiazoli n-3-one (Biocide)	2634-33-5 and 1310-73-2	< 1 %	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1

			(H400) Skin Corr. 1A (H314) Eye irritation 2 (H319)
Water	7732-18-5	<70 %	Not classified.

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 wash before re-using. Wash skin gently and thoroughly with water and non-abrasive soap. **Seek medical attention if skin irritation or rash occurs.**
Eyes: Flush eyes with clean water for at least 15 – 20 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 the person is alert, rinse mouth thoroughly with water.
Anticipated acute effects:
Harmful if swallowed.
May be harmful in contact with skin.

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: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.
Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.
Specific hazards: Fires may produce irritating or poisonous vapours including compounds of carbon and nitrogen, hydrogen chloride and sulphur oxides.
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. Remain upwind of fire. 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: Avoid contact with eyes. **Do not breathe in spray mist or vapours**. 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 and evacuate unprotected personnel and animals.
Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified as very toxic / toxic to aquatic organisms and may 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.
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 Harmful if swallowed. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not inhale spray mist or vapours. 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.

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. Do not store near heat, open flame, sources of ignition or hot surfaces. 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
Azoxystrobin	n/a	2 mg/m^3 (TWA)	*"Hazardous Chemical Substances Regulations, 1995"* **or** *"www.osha.gov"*

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 with cartridges / canisters approved for organic vapours.

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

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: Employees must wear appropriate protective (impervious) clothing, (rubber) 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 to cream, suspension concentrate.
Odour: No specific odour.
pH (1% aqueous dilution): 5.7 at 22˚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: 1.0926 g/mℓ at 20°C.
Solubility: Suspends in water.
n-octanol/water partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: 600 – 1400 cPs.

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: Will not occur.
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:
Calculated according to GHS.
Oral LD_{50} (24 h) 2000 mg/kg (rat).
Dermal LD_{50} (24 h) > 2000 mg/kg (rat).
Inhalation LC_{50} (4 h) > 5 mg/ℓ (rat).
Skin Irritation: Not classified.
Eye Irritation: Not classified.
Skin Sensitization: Not classified.
Respiratory Sensitization: Not classified.
Reproductive cell mutagenicity: Not classified.
Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.
Specific target organ toxicity – single exposure: Not classified.
Specific target organ toxicity – repeated exposure: Not classified.
Aspiration hazard: Not available.
Chronic Effects: Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: Not classified.
Ingestion: Not classified.

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA (based on active ingredients):
Fish:

Azoxystrobin		
LC_{50} (96h)	Rainbow trout	0.47 mg/ℓ.
	Bluegill sunfish	1.1 mg/ℓ.
	Carp	1.6 mg/ℓ.
	Sheepshead minnows	0.66 mg/ℓ.
Boscalid		
LC_{50} (96h)	Rainbow trout	2.7 mg/ℓ.

Daphnia:

Azoxystrobin	
EC_{50} (48h)	0.28 mg/ℓ.
Boscalid	
EC_{50} (48h)	5.33 mg/ℓ.

Algae:

Azoxystrobin		
EC_{50} (72h)	*P. subcapitata*	0.18 mg/ℓ.
EC_{50} (72h)	*N. pelliculosa*	0.028 mg/ℓ.
Boscalid		
E_rC_{50} (96h)	*P. subcapitata*	3.75 mg/ℓ.

Birds:

Azoxystrobin		
Acute oral LD_{50}	Mallard Ducks	> 2000 mg/kg.
	Bobwhite quail	> 2000 mg/kg.
Dietary LC_{50} (5d)	Bobwhite quail	> 5200 mg/kg.
	Mallard ducks	> 5200 mg/kg.
Boscalid		
Acute oral LD_{50}	Bobwhite quail	> 2000 mg/kg b.w.

Bees:

Azoxystrobin	
LD_{50} (48h, oral)	> 25 ug/bee.
LD_{50} (48h, contact)	> 200 ug/bee.
Boscalid	
NOEC (oral)	166 ug/bee.
NOEC (contact)	200 ug/bee.

Worms:

Azoxystrobin		
LC_{50} (14d)	Earthworms	283 mg/kg dry soil.
Boscalid		
LC_{50}	*Eisenia foetida*	>1000 mg/kg dry

ENVIRONMENTAL EFFECTS:
Plants:
Boscalid
Hydroxylation in the biphenyl and pyridine rings, and cleavage reactions in both rings, were observed. However, unchanged parent formed the major part of the residue.

Azoxystrobin
In wheat, grapes and peanuts, metabolism was extensive, but parent azoxystrobin was the only major (>10%) residue. Metabolism followed similar pathways in all three crops.

Persistence and degradability:
Boscalid
Moderate degradation behaviour in soil; soil DT50 108 d to >1 y (lab., aerobic conditions, 20 °C); field DT50 28 d to c. 200 d. Good degradation in natural water/sediment systems.
Azoxystrobin
Field dissipation studies showed that neither azoxystrobin nor its major degradants were typically found in soil below the top 15 cm. In water-sediment systems (lab., 20 °C, dark), water phase mean DT_{50} 6.1 d (SFO), total system mean DT_{50} 214 d (SFO). Degradation in atmosphere occurs by reaction with hydroxyl radicals (AOP model), DT50 2.7 h.
Bio-accumulative Potential:

Mobility in soil:
Boscalid
Not classified.

Azoxystrobin
Azoxystrobin is classified as moderately mobile in soil; average Kfoc for azoxystrobin c. 430Koc 200–250.
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 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. (**Azoxystrobin Boscalid 300 g/ℓ**)
Maritime Transport IMDG/IMO:
Class: 9
Packaging group: III
UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. **(Azoxystrobin Boscalid 300 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. **(Azoxystrobin Boscalid 300 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:
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 5,10,20,25 and 50 litres plastic containers, labelled according to South African regulations and guidelines.
Additional H statements (formulants):
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H331: Toxic if inhaled.
H341: Suspected of causing genetic defects.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.
IATA: International Air Transport Association.
IBC: International Bulk Chemical.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization.
LD_{50} 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.