

CORONA PRO 300 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CORONA PRO 300 SC
Other identifier: Tebuconazole & Trifloxystrobin 300 SC
Recommended use: Fungicide
Restrictions on use: Agriculture

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 Irritation 3	H316
	Skin Sensitisation 1	H317
Reproductive Toxicity	Reproductive Toxicity 2	H361
Lactation	Lactation	H362
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:

Causes mild skin irritation.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

May cause harm to breast-fed children.

Label elements:



Signal word: Warning

Hazard statements:

H316: Causes mild skin irritation.

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility or the unborn child.

H362: May cause harm to breast-fed children.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P203: Obtain, read and follow all safety instructions before use.

P260: Do not breathe fumes, vapours, sprays or mists.

P263: Avoid contact during pregnancy and while nursing.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

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.

P318: IF exposed or concerned, get medical advice.

P333+P317: If skin irritation or rash occurs: Get medical help.

P391: Collect spillage.

P405: Store locked up.

P501: Dispose of content/container to suitable landfill in accordance with local regulations.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Unclassified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc. (m/v)	Classification EC 1272/2008
Tebuconazole	107534-96-3	20 %	Acute Toxicity 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Reproductive Toxicity 2 (H361)
Trifloxystrobin	141517-21-7	10 %	Skin Sensitisation 1 (H317) Lactation (H362) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

CORONA PRO 300 SC

SAFETY DATA SHEET

Monoethylene glycol	107-21-1	<5 %	Acute Toxicity 4 (H302)
Wetting agent	105864-15-1	<5 %	Skin Irritation 2 (H315) Eye Irritation 2 (H319)
Dispersing agent	99734-09-5	<5 %	Aquatic Chronic 3 (H412)
Proxel GXL	2634-33-5	<1 %	Acute Toxicity 4 (H302) Skin Irritation 2 (H315) Eye Damage 1 (H318) Skin Sensitisation 1 (H317) Aquatic Acute 1 (H400)

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: Fire may produce irritating or poisonous vapours (hydrogen fluoride, hydrogen cyanide, carbon monoxide, nitrogen 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 skin. Do not breathe in spray mist, fumes 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, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified as very 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.

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

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. IF exposed or concerned, get medical advice.

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 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 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:

Causes mild skin irritation.

May cause an allergic skin reaction.

May cause harm to breast-fed children.

Anticipated delayed effects: Suspected of damaging fertility or the unborn child.

Most important symptoms / effects: None known.

Advice to physician: Symptomatic treatment and supportive therapy as indicated, no known specific antidote. Gastric lavage is not normally required. If significant amounts have been ingested, administer activated charcoal and sodium sulphate.

CORONA PRO 300 SC

SAFETY DATA SHEET

suitable detergent. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: 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.

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: HDPE bottle / drum.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Tebuconazole	0.2 mg/m ³	TWA	OES
Trifloxystrobin	2.7 mg/m ³	TWA	OES

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: Employees must wear chemically protective gloves 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 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: Cream white liquid, suspension concentrate.

Odour: Characteristic odour.

Odour threshold: Not available

pH (1% aqueous dilution): 6 – 9.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not available.

Flammability: Non-flammable.

Upper / lower explosion limits: Not explosive.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density / Relative density: 1.056

Solubility: Suspends 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: Unlikely to occur.

Conditions to avoid: Extreme heat or exposure to flames.

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

Hazardous decomposition products: Thermal decomposition generates poisonous and irritating vapours and fumes which may contain: Carbon dioxide, carbon monoxide, nitrogen oxides, chlorides.

CORONA PRO 300 SC

SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS:

Oral LD₅₀ (24h) >7000 mg/kg (rat)

Dermal LD₅₀ >20 000 mg/kg (rabbit and rat)

Inhalation LC₅₀ (4h) >40 mg/l (rat)

Skin Irritation / Corrosion: Causes mild skin irritation.

Eye Damage / Irritation: Not classified.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: Not classified.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: Not classified.

Aspiration hazard: Not classified.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Skin: Causes mild skin irritation. May cause an allergic skin reaction.

Other information: None.

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA:

Active ingredients

Fish:

Tebuconazole

LC ₅₀ (96 h)	Rainbow trout	4.4 mg/l
	Bluegill sunfish	5.7 mg/l

Trifloxystrobin

LC ₅₀ (96 h)	Rainbow trout	0.015 mg/l
	Bluegill sunfish	0.054 mg/l
	Sheepshead minnows	0.078 mg/l
	Black tetras	0.029 mg/l

Daphnia:

Tebuconazole

LC ₅₀ (48 h)		2.79 mg/l
-------------------------	--	-----------

Trifloxystrobin

LC ₅₀ (48 h)		0.016 mg/l
-------------------------	--	------------

Algae:

Tebuconazole

E _r C ₅₀ (72 h)	<i>Pseudokirchneriella subcapitata</i>	3.80 mg/l
---------------------------------------	--	-----------

Trifloxystrobin

E _b C ₅₀ (72 h)	<i>Scenedesmus subspicatus</i>	0.0053 mg/l
EC ₅₀ (96 h)	<i>Pseudokirchneriella subcapitata</i>	0.261 mg/l
	<i>Navicula pelliculosa</i>	0.094 mg/l
	<i>Anabaena flos-aquae</i>	>0.13 mg/l

Birds:

Tebuconazole

Acute oral LD ₅₀	Japanese quail (male)	4440 mg/kg
	Japanese quail (female)	2910 mg/kg
	Bobwhite quail	1990 mg/kg
Dietary LC ₅₀ (5 d)	Mallard ducks	>4820 mg/kg diet
	Bobwhite quail	>5000 mg/kg diet

Trifloxystrobin

Acute oral LD ₅₀	Bobwhite quail	>2000 mg/kg
	Mallard ducks	>2250 mg/kg
Dietary LC ₅₀ (5 d)	Bobwhite quail & Mallard ducks	>5200 mg/kg diet

Bees:

Tebuconazole

LD ₅₀ contact (48h)		>200 µg/bee
LD ₅₀ oral (48 h)		>83 µg/bee

Trifloxystrobin

LD ₅₀ contact		>100 µg/bee
LD ₅₀ oral		>110 µg/bee

Worms:

Tebuconazole

LC ₅₀ (14 d)	<i>Eisenia fetida</i>	1380 mg/kg soil
-------------------------	-----------------------	-----------------

Trifloxystrobin

LC ₅₀ (14 d)	Earthworms	>1000 mg/kg soil
-------------------------	------------	------------------

ENVIRONMENTAL EFFECTS

Plants:

Tebuconazole

Metabolism studies in representative crops show that tebuconazole is the major terminal residue in grapes, peanuts and cereal straw. In cereal grains, triazole alanine is the main metabolite. In plant tissue, mean DT₅₀ in the range 7 – 12 days could be derived (cereals), depending on the database taken.

Trifloxystrobin

Metabolic profile is similar for a range of crops. Based on wheat, apple, cucumber and sugar beet metabolism data, trifloxystrobin is considered as the residue of concern for food and feed commodities of plant origin.

Persistence and degradability:

Tebuconazole

CORONA PRO 300 SC

SAFETY DATA SHEET

The degradation of tebuconazole in soil was slow in laboratory studies. Under field conditions, the compound degraded much more rapidly, and did not accumulate in long-term studies (3–5 y). In natural waters, hydrolysis and indirect photolysis occur; in a pond study, the compound dissipated from the water body with DT₅₀ 4–6 w. Low vapour pressure and strong adsorption result in low volatilisation into the air.

Trifloxystrobin

Dissipates rapidly from soil and surface water. Soil DT₅₀ 4.2 – 9.5 days. In water, DT₅₀ 0.3 – 1 day.

Bio-accumulative potential:

Tebuconazole

Log K_{ow} 3.7. In rats, after three days, elimination was almost complete.

Trifloxystrobin

Log K_{ow} 4.5. Rapidly absorbed and rapidly and extensively excreted in urine and faeces. Extensively and rapidly metabolised, and quickly and completely eliminated from the body.

Mobility in soil:

Tebuconazole

No residues could be detected in deeper soil layers of studies, and adsorption/desorption studies indicated a low mobility in the soil, therefore groundwater contamination through leaching can be excluded.

Trifloxystrobin

K_{oc} 1642 – 3745. No leaching potential.

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 / ORD:

Class: 9
 Packaging group: III
 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Tebuconazole + Trifloxystrobin 300 g/l)

Maritime Transport IMDG / IMO:

Class: 9
 Packaging group: III
 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Tebuconazole + Trifloxystrobin 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.
 (Tebuconazole + Trifloxystrobin 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 250 and 500 millilitres and 1, 2, 5, 10 and 20 litres HDPE bottle / drum labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

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.

CORONA PRO 300 SC

SAFETY DATA SHEET

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

Compiled: July 2022

Reviewed: February 2024

Revision no.: (3)

Next revision date: February 2029

For detailed information on revisions, contact the Registration holder.