

MAINTAIN 200 SP

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: MAINTAIN 200 SP
 Insecticide
UN Number: 3077
Supplier: Villa Crop Protection (Pty) Ltd
 PO Box 10413
 Aston Manor, 1630, South Africa
Telephone: (011) 3962233
Fax: (011) 3964666
Website: www.villacrop.co.za

Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
 Bateleur: +27 86 199 9071
 (Client: Villa Crop Protection)

Poisoning:
 Griffon Poison Information Centre +27 82 446 8946
 Western Cape Poisons +27 861 555 777
 Tygerberg Hospital +27 21 931 6129

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
Inhalation	Acute Tox. 5	H333

The most important adverse effects:

Physiochemical effects:
 None known.

Human health effects:
 Harmful if swallowed.

Label elements:



Signal word: Warning.

Hazard statements:

H302: Harmful if swallowed.
 H333: May be harmful if inhaled.

Precautionary statements:

P264: Wash hands and face thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.

Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Cat. 4
 Classification according to WHO: Cat. III
 Classification according to GPIC (Active): Cat. II

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Acetamiprid a.i	135410-20-7	20 %	Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)
Wetting agent	25155-30-0	<5 %	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Eye Irrit. 2 (H319)

4. FIRST AID MEASURES AND PRECAUTIONS

Inhalation: If product has been inhaled, remove the source of contamination or move victim to fresh air. Obtain medical attention if necessary.

Skin contact: Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with copious amounts of water and non-abrasive soap. Obtain medical attention if necessary.

Eye contact: Immediately flush eyes with a stream of clean gently flowing water for 15 to 20 minutes, holding the eyelid(s) open. Remove contact lenses, if present, after the first 5 minutes. Obtain medical attention if irritation develops.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting, unless instructed to do so by a physician. Have a person sip a glass of water if able to swallow. Obtain medical attention if necessary.

Note to Physician: There is no specific antidote available. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

This material is not flammable.

Hazardous products of combustion: Product is not explosive, but will form dust explosive mixtures in the air.

Extinguishing agents: Extinguish fires with dry chemical extinguisher, alcohol foam, water spray, carbon dioxide. Avoid the accumulation of polluted run-off from the site.

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Firefighting: Remove spectators from surrounding area. Isolate the fire area and deny entry. Stay upwind if possible. Use a recommended extinguishing agent for the type of surrounding fire.

Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal.

Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways.

Contain water used for firefighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Personal protective equipment: Fire may produce irritating and/or toxic vapours, mists or other products of combustion. Fire fighters and others that may be exposed should wear full NIOSH/MSHA approved protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Personnel handling this material should be thoroughly trained to handle spills and releases. Do not breathe in spray or fumes. Avoid contact with skin and eyes. For personal protection see Section 8.

Environmental precautions: This product should not be hazardous to the environment, but common practise where pesticides are concerned requires particular disposal of untreated waste or surplus, which excludes release into public sewers or water systems.

Occupational spill: Do not touch-spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Sweep up and place the material into a clean, dry container and cover for subsequent disposal. Clean up residual material by washing area with water and detergent, collect-contaminated water for later disposal. Label drums with its content and dispose of it in accordance with local regulations. Do not flush spilled material into drains. Decontaminate tools and equipment following clean-up. Keep spectators away and upwind. Open burning or dumping of this material is prohibited.

7. HANDLING AND STORAGE

Handling: KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS. Person handling this product should be thoroughly trained as to its hazards. Harmful if swallowed. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the pesticide gets inside. Thereafter wash skin thoroughly using a non-

abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Keep out of reach of unauthorised persons, children and animals. Do not store in or around the home. Store in its original, labelled, tightly-closed container in dry, cool and well-ventilated area, away from heat or open flame. Do not store next to feed, food and water supplies. Never transfer this product to another container for storage. Do not allow prolonged storage in areas where temperatures frequently exceed 46°C. Local regulations should be complied with.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT: If engineering controls and work practices are not effective in controlling exposure to this material, wear suitable personal protective equipment including approved respiratory protection.

Clothing: Employee must wear appropriate protective (impervious) clothing and equipment to prevent skin contact with this substance. Wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and chemical resistant headgear for overhead exposure.

Gloves: Employee must wear appropriate chemical-resistant and waterproof gloves to prevent contact with this substance.

Eye protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate equipment should be selected for the particular use intended for this material. Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles.

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: Blue powder.

Odour: Odourless.

pH (1% aqueous dilution): 8.5 to 9.5 (22°C).

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

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Flash Point: Not applicable.
Flammability: Not flammable.
Upper/lower explosion limits: Not explosive.
Vapour Pressure (mm Hg): Not available.
Relative Vapour Density: Not available.
Density/Relative density:
Solubility: ±2.7% (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: None known.

Conditions to Avoid: None known.

Incompatible Materials: Avoid contact with strong oxidizing agents, strong bases and strong acids.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS.

Oral LD₅₀ (24 h) rat >600 mg/kg.

Dermal LD₅₀ (24 h) rat 10000 mg/kg.

Inhalation LC₅₀ (4 h) rat 5,75 mg/ℓ.

Skin Irritation/Corrosion: Not available.

Eye Damage/Irritation: Not available.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

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: May be harmful by inhalation.

Skin contact: Non-irritant to skin.

Eye contact: Non-irritant to eyes.

Ingestion: The product is harmful if swallowed.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA: Active ingredient.

Fish: LC ₅₀ (0-96 h)	Carp	>100 mg/ℓ
Daphnia: LC ₅₀ (24 h) EC ₅₀ (48 h)		>200 mg/ℓ, 49.8 mg/ℓ
Algae: E _r C ₅₀ (72 h) NOEC (72 h)	<i>Scenedesmus Subspicatus</i>	>98.3 mg/ℓ, 98.3 mg/ℓ
Birds: LD ₅₀ LC ₅₀	Mallard ducks Bobwhite quail Bobwhite quail	98; 180 mg/kg. >5000 ppm.
Bees: LD ₅₀	(oral) (contact)	14.5 µg/bee; 8.1 µg/bee.

Plants: Slowly degraded on or in plants, forming five identified metabolites (H. Saito *et al.*, *Proc. 9th IUPAC Int. Congr. Pestic. Chem.*, London, 1998, **2**, 5A-010).

ENVIRONMENTAL EFFECTS:

Persistence and degradability: Acetamiprid is moderately to highly mobile in most soils but is not expected to be persistent in the environment. The primary degradation pathway is aerobic soil metabolism. DT₅₀ 0.8-5.64 d, DT₉₀ 2.8-67.3 d (20°C, EU 9 soils). K_{oc} 71.1-313 (US and EU soils).

Bio-accumulative Potential: Not determined.

Mobility in soil: Not determined.

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Pesticide disposal: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be re-used or reprocessed. This product should not be hazardous to the environment, but common practise where pesticides are concerned requires particular disposal of untreated waste or surplus, which excludes release into public sewers or water systems.

Comply with local legislation applying to waste disposal.

Package product wastes: Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. Empty the container of excess product into the container of the applicator. Destroy the emptied containers by perforation and flattening. Bury in an approved, designated landfill.

Do not re-use the empty container for any other purpose. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

Comply with local legislation applying to waste disposal.

14. TRANSPORT INFORMATION

UN Number: 3077

Road Transport ADR/IRD:

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Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S (Acetamiprid 20%)

Maritime Transport IMDG/IMO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S (Acetamiprid 20%)

Marine Pollutant (Y/N): Yes
Air transport IATA/ICAO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S (Acetamiprid 20%)

Special/Environmental Precautions: None known.
Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

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.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:
 OSHA 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 50, 100, 200, 250, 500 g, 1, 5, 10, 20 & 50 kg in plastic containers, 3-ply paper bags or polyprop woven bags. According to South African regulations and guidelines.

Additional H-statement (s) (formulants)

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

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