

MAINTAIN 200 SP

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: MAINTAIN 200 SP
Other identifier: Acetamiprid 200 SP
Recommended use: Insecticide
Restrictions on use: Agriculture

Supplier: Villa Crop Protection (Pty) Ltd
Co. Reg. No.: 1992/002474/07
 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:
 (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 Toxicity 4	H302
Dermal	Skin Irritation 3	H316
Eye	Eye Damage 1	H318

The most important adverse effects:
Physiochemical effects: None known.
Human health effects:
 Harmful if swallowed.
 Causes mild skin irritation.
 Causes serious eye damage.
Label elements:



Signal word: Danger

Hazard statements:

H302: Harmful if swallowed.
 H316: Causes mild skin irritation.
 H318: Causes serious eye damage.

Precautionary statements:

P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P301+P305+P332+P317: IF SWALLOWED, IN EYES or skin irritation occurs: Get medical help.
 P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P330: Rinse mouth.
 P501: Dispose of content/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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:

Chemical Name	CAS	Conc. (m/m %)	Classification EC 1272/2008
Acetamiprid	135410-20-7	20 %	Acute Toxicity 4 (H302) Aquatic Chronic 3 (H412)
Wetting agent	25155-30-0	<5 %	Acute Toxicity 4 (H302) Skin Irritation 2 (H315) Eye Damage 1 (H318)

4. FIRST AID MEASURES AND PRECAUTIONS

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 contact: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and

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thoroughly with water and non-abrasive soap. **Obtain medical attention if irritation occurs.**

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.**

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. Causes mild skin irritation. Causes serious eye damage.

Anticipated delayed effects: None known.

Most important symptoms / effects: None known.

Advice to physician: There is no specific antidote available. Treat symptomatically and supportively.

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water.

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

Methods and Materials for Clean-up: Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. 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. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. See section 13 for disposal considerations.

5. FIRE-FIGHTING MEASURES

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

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

Specific hazards: Product is not explosive, but will form dust explosive mixtures in the air. Fire may produce irritating and/or toxic vapours, mists or other products of 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. 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.

Personal protective equipment: Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Harmful if swallowed. Avoid contact with skin and eyes. 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.

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 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: Plastic containers, 3-ply paper bags or polyprop woven bags.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

No occupational exposure limits have been determined for the significant ingredients in this product.

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on

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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 gloves is recommended to prevent against skin contact.

Eye Protection: Employees must wear chemical safety goggles 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: 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.

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: Extreme heat or exposure to flames.

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

Hazardous Decomposition Products: Fire may produce irritating and/or toxic vapours, mists or other products of combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS.

Oral LD₅₀ (24 h) rat >600 mg/kg.

Dermal LD₅₀ (24 h) rat >10 000 mg/kg.

Inhalation LC₅₀ (4 h) rat >5,75 mg/ℓ.

Skin Irritation/Corrosion: Causes mild skin irritation.

Eye Damage/Irritation: Causes serious eye damage.

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 classified.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Not classified.

Skin contact: Causes mild skin irritation.

Eye contact: Causes serious eye damage.

Ingestion: The product is harmful if swallowed.

12. ECOLOGICAL INFORMATION

This product is not expected to be harmful to aquatic organisms

ECOTOXICITY DATA:

Acetamiprid:

Fish:

LC₅₀ (96 h) Carp >100 mg/ℓ.

Daphnia:

EC₅₀ (48 h) 49.8 mg/ℓ.

Algae:

E_rC₅₀ (72 h) *Scenedesmus Subspicatus* >98.3 mg/ℓ.

Birds:

Acute Oral LD₅₀ Mallard ducks 98 mg/kg.

Bobwhite quail 180 mg/kg.

Dietary LC₅₀ Bobwhite quail >5000 mg/kg.

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Bees:

LD₅₀ oral 14.5 µg/bee.
 LD₅₀ contact 8.1 µg/bee.

ENVIRONMENTAL EFFECTS:

Based on information for the active ingredient:

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).

Persistence and degradability: 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).

Bio-accumulative Potential: Rapidly and almost completely absorbed after 24 hours and rapidly and almost completely excreted.

Mobility in soil: Acetamiprid is moderately to highly mobile in most soils. K_{oc} 71.1-313 (US and EU soils).

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. Empty containers by inverting the empty container over the spray or mixing tank. Thereafter, rinse the container three times with a volume of water equal to a quarter of that of the container. 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: Not regulated

Not classed i.e. considered non-hazardous material according to UN Orange Book and international transport codes e.g. RID (rail) and IMDG (sea).

Special/Environmental Precautions: None known.

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 50, 100, 200, 250, 500 g and 1, 5, 10, 20 & 50 kg in plastic containers, 3-ply paper bags or polyprop woven bags labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H315: Causes skin irritation.

H412: Harmful to aquatic life with long lasting effects.

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.

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.