

HOLT 250 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: HOLT 250 SC
Other identifier: Pencycuron 250 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:
 Envirosure +27 31 205 4918
 (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
Villa Crop Protection Emergency number:
National Safety, Health and Environmental Manager:
 +27 63 698 0668

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 Irrit. 3	H316
Eye	Eye Dam. 1	H318
Inhalation	Acute Tox. 4	H332
Carcinogenicity	Carc. 2	H351
Environment		
Aquatic acute	Aquatic acute 2	H401
Aquatic chronic	Aquatic chronic 2	H411

The most important adverse effects:
Physiochemical effects: None known.
Human health effects:
 Causes mild skin irritation (Skin Irrit. 3).
 Causes serious eye damage (Eye Dam. 1).
 Harmful if inhaled (Acute Tox. 4).
 Suspected of causing cancer (Carc. 2).

Label elements:



Signal word: Danger.
Hazard statements:
 H316: Causes mild skin irritation.
 H318: Causes serious eye damage.
 H332: Harmful if inhaled.
 H351: Suspected of causing cancer.
 H401: Toxic to aquatic life.
 H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:
 P203: Obtain, read and follow all safety instructions before use.
 P261: Avoid breathing dust, fume, gas, mists, vapours or spray.
 P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P317: Get medical help.
 P318: IF exposed or concerned, get medical advice.
 P332+P317: If skin irritation occurs get medical help.
 P391: Collect spillage.
 P405: Store locked up.
 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/v%)	Classification EC 1272/2008
Pencycuron	66063-05-6	24.29%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Sodium dodecylbenzene sulfonate	25155-30-0	<10%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)
Ethylene glycol	107-21-1	<1%	Acute Tox. 4 (H302)
Tributyl phosphate	126-73-8	<2%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Carc. 2 (H351)

Specific hazards: Combustion may result in the release of the following gases: carbon monoxide, oxides of nitrogen, hydrogen chloride and hydrogen cyanide.

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 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. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Contain fire control agents and wastewater 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 bunker 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. Immediately consult a doctor.

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. **HOLT 250 SC** causes mild skin irritation. **If irritation persists, obtain medical attention.**

Eyes: Immediately flush eyes with clean water for at least 15-20 minutes. Lift eyelid (s) to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention.**

Ingestion: **Seek medical attention immediately.** Do NOT induce vomiting unless instructed to do so by a poison control centre or doctor. If the person is alert, rinse mouth thoroughly with water. Do not give anything by mouth to an unconscious person.

Anticipated acute effects: Causes mild skin irritation. Causes serious eye damage. Harmful if inhaled.

Anticipated delayed effects: Suspected of causing cancer.

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 water spray, foam, sand or carbon dioxide.

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or fumes. 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 as the product is classified as toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into water courses should be immediately reported to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Prevent material from spreading by diking area in with sand, earth or sawdust.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, earth, sawdust, universal binder, silica gel 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.

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7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Ensure adequate ventilation during handling and use. Harmful if inhaled. Avoid contact with skin and eyes. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly closed when not in use. In 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 again.

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. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers. Local regulations should be complied with.

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
Pencycuron	5 mg/m ³	TWA	OES
Tributyl phosphate	0.2 ppm	8-hours TWA	"www.osh a.gov"
Ethylene glycol	10 mg/m ³	TWA	OEL-RL
Hydrogen chloride	0.3 ppm	8-hours TWA	"www.osh a.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 for organic vapours.

Hand Protection: The employee must wear appropriate chemically resistant gloves with a class 6 protection index, e.g., nitrile rubber gloves, to prevent contact with this mixture.

Eye Protection: Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used. Contact lenses are not protective devices.

Skin and Body Protection: Employee must wear chemically impervious 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 mixture; the employer should provide an eyewash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white suspension concentrate.

Odour: Odourless.

pH (1 % aqueous dilution): 5.0 – 9.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not available.

Flammability: Not available.

Upper/lower explosion limits: Not explosive.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density/Relative density: 1.05 g/cm³ at 20°C.

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 (2) 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: Avoid extreme heat and exposure to flames or direct sunlight.

Incompatible Materials: None known.

Hazardous Decomposition Products: Combustion may release toxic and irritant vapours.

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11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (Experimental data):

Oral LD₅₀: > 5000 mg/kg.

Dermal LD₅₀: > 5000 mg/kg.

Inhalation LC₅₀: 4.06 mg/l.

Skin Irritation/Corrosion: Causes mild skin irritation.

Eye Damage/Irritation: Causes serious eye damage.

Skin Sensitization: Not classified.

Based on classification according to GHS:

Respiratory Sensitization: Not classified.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Suspected of causing cancer.

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 classified.

POTENTIAL ADVERSE EFFECTS:

Causes mild skin irritation. Causes serious eye damage.

Harmful if inhaled. Suspected of causing cancer.

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA:

Pencycuron

Fish:

LC ₅₀ (96 h)	Rainbow Trout	> 690 mg/l
	Bluegill sunfish	127 mg/l

Daphnia:

EC ₅₀ (48 h)		0.27 mg/l
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Algae:

E _r C ₅₀ (72 h)	<i>Scenedesmus subspicatus</i>	1.0 mg/l
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Birds:

LD ₅₀	Bobwhite quail	>2000 mg/kg
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Bees:

LD ₅₀ (oral)		>99 mg/bee
LD ₅₀ (contact)		>100 mg/bee

Worms:

LC ₅₀ (14d)		>1000 mg/kg soil
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Plants:

Degradation only to a low degree. The hydroxylated metabolites (partly as conjugates) can be considered to be the main metabolites.

ENVIRONMENTAL EFFECTS:

Pencycuron

Persistence and degradability:

Leaching and adsorption behaviour in soil characterises the compound as slightly mobile. Degraded in soil very effectively in laboratory studies. Based on determined DT₅₀ values, the compound can be classified as moderately stable to stable. The main metabolites are derivatives of p-chlorobenzylamine and p-chlorobenzylformamide.

Bio-accumulative Potential: Does not bioaccumulate.

Mobility in soil: Immobile in soil.

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. Waste should only be handled by licensed facilities. Comply with local legislation applying to waste disposal. The product may be taken to a certified waste disposal site or incineration plant.

Container: Emptied containers retain vapour and product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsing to the contents of the spray tank before recycling or destroying the container in the prescribed manner. 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/RID:

Class: 9

Packaging group: III

Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S.
(Pencycuron 250 SC)

Maritime Transport IMDG/IMO:

Class: 9

Packaging group: III

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Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Pencycuron 250 SC)

Marine Pollutant: Yes

Air Transport IATA/ICAO:

Class: 9

Packaging group: III

Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Pencycuron 250 SC)

Special/Environmental Precautions: Refer to sections 4 to 8 of this document.

Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

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, 500, 750 millilitres and 1, 1.5, 2, 5 & 10 litres plastic containers, labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H331: Toxic if inhaled.

H400: Very toxic to aquatic life.

H410: Very toxic 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.

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.

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.