

VILLA JUDO SECURE 106 CS

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: JUDO SECURE 106 CS
Other identifier: Lambda-cyhalothrin 106 CS
Recommended use: Insecticide
Restrictions on use: Agriculture

Supplier: Villa Crop Protection (Pty) Ltd.
 PO Box 10413
 Aston Manor, 1630, South Africa

Telephone: (011) 396 2233
Fax: (011) 396 4666
Website: www.villacrop.co.za

Emergency telephone: +27 11 396 2233
 (08:00 – 16:30)

24 Hr Emergency Numbers:
 Bateleur: +27 83 1233 911 or
 (Client: Villa Crop Protection) +27 860 333 911

In case of Poisoning:
 Western Cape Poisons Tel. Service +27 861 555 777
 Griffon Poison Information Centre +27 82 446 8946
 Tygerberg Hospital +27 21 931 6129

Label elements:



Signal word: Danger

Hazard statements:
 H303: May be harmful if swallowed.
 H304: May be fatal if swallowed and enters airways.
 H313: May be harmful in contact with skin.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H333: May be harmful if inhaled.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:
 P264: Wash skin and face thoroughly after handling.
 P273: Avoid release to the environment.
 P280: Wear protective clothing, impervious rubber gloves, boots and chemical safety goggles or face shield.
 P301+P310: IF SWALLOWED: Immediately call a doctor.
 P302+P352: IF ON SKIN: Wash thoroughly with plenty water with non-abrasive soap.
 P304+P312: IF INHALED: Call a doctor if you feel unwell.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312: Call a doctor if you feel unwell.
 P331: Do NOT induce vomiting.
 P332+P313: If skin irritation occurs: get medical attention.
 P337+P313: If eye irritation persists: Get medical attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P391: Collect spillage.
 P405: Store locked up.
 P501: Dispose of contents/container to suitable landfill in accordance with local regulations.

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. 5	H303
Dermal	Acute Tox. 5	H313
	Skin irrit. 2	H315
Eye	Eye irrit. 2/2A	H319
Inhalation	Acute Tox. 5	H333
	Asp. Tox. 1	H304
Environment		
Aquatic	Aquatic acute 1	H400
Aquatic	Aquatic chronic 1	H410

The most important adverse effects:
Physiochemical effects:
 None known
Human health effects:
 May be fatal if swallowed and enters airways.
 Causes skin irritation and serious eye irritation.

Special labelling of certain mixtures:
 None known.
Other hazards:
 None known.
Toxicity:
 Classification according to GHS: Category 5
 Classification according to WHO: Category 2

VILLA JUDO SECURE 106 CS

SAFETY DATA SHEET

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Lambda-cyhalothrin 92%	91465-08-6	10,6%	Acute Tox. 3 (H301) Acute Tox. 4 (H312) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Solvesso 150	64742-94-5	< 20%	Asp. Tox. 1 (H304)
Sodium Ligno Sulfate	8061-51-6	< 10%	Not classified
Atlox-4913		< 5%	Eye irrit. 2B (H320) Skin irrit. 3 (H316)
Xanthan Gum	11138-66-2	< 1%	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. 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 wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if skin irritation persists.

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.

Anticipated acute effects: May cause serious eye irritation, headaches, drowsiness or dizziness, many cause temporary itching, tingling, burning or numbness of exposed skin called paraesthesia.

Anticipated delayed effects: Allergic skin reactions are possible.

Most important symptoms/effects: May cause severe pneumonitis if aspirated.

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: Water jet. Use a water jet only to cool heated containers. Water may be ineffective in controlling fire.

Specific hazards: During fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and relinquish 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. 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. This product is highly toxic to fish and aquatic invertebrates. May cause long-term adverse effects in the aquatic environment. 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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes. Do not breathe in fumes.

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: Keep 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: 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

VILLA JUDO SECURE 106 CS

SAFETY DATA SHEET

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: May be 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 again.

Storage:

Conditions for safe storage: Store in its original container in dry, cool, well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Fluorinated plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Lambda-Cyhalothrin	Not established	0.04 mg/m ³ TWA (Dermal)	OSHA PEL

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 OSHA PELs 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), the employee must wear a NIOSH approved air-purifying respirator with cartridges approved for organic vapours.

Hand Protection: The employee must wear appropriate chemically resistant gloves e.g. nitrile rubber gloves to prevent contact with this substance.

Eye Protection: Wear a face shield or chemical safety goggles when handling the concentrate and when applying the product to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: The use of protective (impervious) clothing e.g. coveralls is recommended to prevent skin contact.

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: Off-white to pale yellow liquid.

Odour: Slightly odour / typical aromatic solvent.

pH (1% aqueous dilution): 4.5 to 9.0

Melting point: Not available.

Freezing Point: -16°C.

Boiling Point: 100°C. **Flash Point:** >90°C.

Flammability: Non-flammable.

Upper/lower explosion limits: Not available.

Vapour Pressure (mm Hg): 1.5 x 10⁻⁹ mmHg @ 20°C (Lambda-Cyhalothrin technical).

Relative Vapour Density: Not available.

Density/Relative density: 1.04 g/ml @ 20°C.

Solubility: 0.005 mg/L (Lambda-Cyhalothrin technical).

n-octanol/water partition coefficient: log K_{ow} = 7 (Lambda-Cyhalothrin technical).

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: 320 mPas (or cps) @ 20°C.

10. STABILITY AND REACTIVITY

Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions. Stable for up to 2 years when stored in a dry, cool covered warehouse in original, well-labelled containers. Store at low temperature conditions, 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: None known.

VILLA JUDO SECURE 106 CS

SAFETY DATA SHEET

Incompatible Materials: None known.
Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS

Oral LD₅₀ (24h) rat 18792,2 mg/kg

Dermal LD₅₀ (24h) rat 7815,5 mg/kg

Inhalation LC₅₀ (4hours) rat 43,6 mg/l

Skin Irritation/Corrosion: Causes skin irritation.

Eye Damage/Irritation: Causes serious eye irritation.

Skin Sensitization: Product is not a skin sensitizer.

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: May be fatal if swallowed and enters airways.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: May cause headaches, drowsiness or dizziness. (symptoms similar when swallowed).

Skin contact: May cause temporary itching, tingling, burning or numbness of exposed skin called paraesthesia. Allergic skin reactions are possible.

Eye contact: May cause serious eye irritation.

Ingestion: May cause headaches, drowsiness or dizziness.

Other information: May cause severe pneumonitis if aspirated.

12. ECOLOGICAL INFORMATION

This product is highly toxic to fish and aquatic invertebrates. May cause long-term adverse effects in the aquatic environment.

ECOTOXICITY DATA:

Fish: Highly toxic to fish.

LC₅₀ (96h) Bluegill sunfish 0.21 µg/l.

LC₅₀ (96h) Rainbow trout 0.36 µg/l.

Daphnia:

EC₅₀ (48h) *D. magna* 0.36 µg/l.

Algae:

ErC₅₀ (96h) *Selenastrum capricornutum* >1000 µg/l.

Other aquatic organisms: Intrinsic toxicity to aquatic organisms is greatly reduced by rapid loss from the water by adsorption and degradation.

Birds: Slightly toxic to birds.

LD₅₀ mallard ducks >3950 mg/kg.

Dietary LC₅₀ quail >5300 mg/kg.

No accumulation of residues in eggs or tissues.

Bees:

LD₅₀ (oral) 38 ng/bee; (contact) 909 ng/bee.

Worms:

LC₅₀ *Eisenia foetida* >1000 mg/kg soil.

Plants:

For details of metabolism of lambda-cyhalothrin in cotton and soya bean leaves, see D. A. French & J. P. Leahey, *Proc. Br. Crop Prot. Conf. - Pests Dis.*, 1990, 3, 1029-1034.

ENVIRONMENTAL EFFECTS:

Persistence and degradability: Rapidly degraded in soil; DT₅₀ for microbial degradation 23-82 d, for field soil 6-40 d. Strongly adsorbed to soil and sediment organic matter, K_{oc} 330 000. Negligible potential for leaching of lambda-cyhalothrin and its degradation products through soil. Rapid dissipation from water in aquatic systems. DT₅₀ for dissipation from surface waters in lab. water-sediment systems 5-11 h; in a microcosm DT₅₀ <3 h. Rapid and extensive degradation of parent compound in aquatic systems; DT₅₀ for degradation in lab. water-sediment systems 7-15 d; in a microcosm DT₅₀ <3 h, DT₉₀ <3 d.

Bio-accumulative Potential: Not determined.

Mobility in soil: Not determined.

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. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

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 minimum of one third of that of the container. Add the rinsing's to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN NUMBER: 3082

VILLA JUDO SECURE 106 CS

SAFETY DATA SHEET

Road Transport ADR/RID:

Class: 9
 Packaging group: III
 UN proper Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-cyhalothrin 106 CS)

Maritime Transport IMDG/IMO:

Class: 9
 Packing group: III
 UN proper Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-cyhalothrin 106 CS)

Considered a marine pollutant.

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

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: October 2011
Reviewed: May 2017 (1)
Revision no.: (1)

For detailed information on revisions, contact the Registration holder.

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 1, 5, 10, 20, 25 & 50 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.

Additional H-statement (s) (formulants)

- H301: Toxic if swallowed.
- H303: May be harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H312: Harmful in contact with skin.
- H313: May be harmful in contact with skin.
- H315: Causes skin irritation.
- H316: Causes mild skin irritation.
- H319: Causes serious eye irritation.
- H320: Causes eye irritation.
- H330: Fatal if inhaled.
- H333: May be harmful if inhaled.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.