

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:JUDO 50 ECOther identifier:LAMBDA-CYHALOTHRIN 50 ECRecommended use:InsecticideRestrictions 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) 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 8946Poisons Information Centre+27 82 446 8946Poisons Information Centre+27 861 555 777

## 2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard		H-
classes	Hazard categories	statements
Health		
Oral	Acute Toxicity 4	H302
Aspiration	Aspiration Toxicity 1	H304
Dermal	Acute Toxicity 4	H312
	Skin Irritation 3	H316
Eye	Eye Damage 1	H318
Inhalation	Acute Toxicity 4	H332
Environment		
Aquatic	Aquatic Acute 1	H400
acute		
Aquatic	Aquatic Chronic 1	H410
chronic		

The most important adverse effects: Physiochemical effects: None known. Human health effects: Causes serious eye damage. Document no: Effective Date: Revision date (version): Product Code: **108VM** March 2021 June 2022 (4) *ILMBD5EC/MU* 

# **SAFETY DATA SHEET**

Label elements:



Signal word: Danger Hazard statements:

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin.

H316: Causes mild skin irritation.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H400: Very toxic to aquatic life.

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

**Precautionary statements:** 

P261: Avoid breathing dust, fume, gas, mists, vapours or spray.

P264+P265: Wash hands and face thoroughly after handling. Do not touch eyes.

P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release into the environment.

P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

P301+P316: IF SWALLOWED: Get medical help immediately.

P302+P352: IF ON SKIN: Wash with plenty water and non-abrasive soap.

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 so. Continue rinsing.

P317: Get medical help.

P331: Do NOT induce vomiting. 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.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 4 Classification according to WHO: Group II



Classification according to GPIC: Category II

SAFETY DATA SHEET lean forward with head down to avoid breathing in of vomitus.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Mixture: Composition:

Chemical name	CAS	Conc. (m/v%)	Classification EC 1272/2008
Lambda- cyhalothrin TC	91465- 08-6	5.27 %	Acute Toxicity 3 (H301) Acute Toxicity 4 (H312) Acute Toxicity 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Phenylsuphonate salt	26264- 06-2	< 10 %	Acute Toxicity 4 (H302) Skin Irritation 2 (H315) Eye Damage 1 (H318) Aquatic Chronic 4 (H413)
Heavy aromatic solvent	64742- 94-5	< 90 %	Aspiration Toxicity 1 (H304)

## **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: If vapours or mists have been inhaled, and irritation has developed or victim feels unwell, remove the source of contamination or move victim to fresh air. Keep the patient under observation. If irritation persists or patient feels unwell, obtain medical attention.

Skin: Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with cold water and non-abrasive soap. Application of olive oil to the affected area will afford prompt relief. After the affected area is washed with soap and water, dry off and apply olive oil. If irritation persists obtain medical attention.

Eyes: Flush eyes immediately with large amounts of gently flowing cold water, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). Immediately get medical attention.

Ingestion: Do not induce vomiting. Do not give anything by mouth. If the person is alert, rinse mouth thoroughly with water. Obtain medical attention immediately. If spontaneous vomiting occurs, have victim Anticipated acute effects:

Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes mild skin irritation. Causes serious eve damage. Harmful if inhaled.

Anticipated delayed effects: None known.

Most important symptoms: Nausea, vomiting, diarrhoea, abdominal pain, ataxia, unsteady gait, hyperexcitability, salivation, tremors and incontinence.

Advice to physician: There is no specific antidote available.

This product contains materials that may cause severe pneumonitis if aspirated. In cases of ingestion, consider gastric lavage however prevent aspiration. Observe patient for respiratory difficulty from aspiration Treat symptomatically and supportively. pneumonitis. Larger doses may cause convulsions and loss of consciousness.

## **5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media: Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal.

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, and may include hydrocarbons, ammonia, organic and acid halids, oxides of carbon, nitrogen and sulphur 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 Do not use high volume water jet, due to risk. 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 and eyes. 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. 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: For small liquid spills, soak up with lime, damp earth or sand, or other non-combustible absorbent material and place into containers for later disposal.

Methods and Materials for Clean-up: Remove all sources of flames and sparks. For small liquid spills, soak up with lime, damp earth or sand, or other noncombustible absorbent material and place into containers for later disposal. For large liquid spills, contain the liquid for later disposal. 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 Do not flush spilled material or already collected. 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 fatal if swallowed and enters airways. Harmful if swallowed. Harmful in contact with skin. Causes serious eye damage. Do not touch eyes. Avoid breathing dust, fume, gas, mists, vapours or spray. Use with adequate ventilation. 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 product. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Operators should change and wash clothing daily. Remove clothing immediately if the insecticide gets inside. Wash skin thoroughly using a nonabrasive soap and put-on clean clothing. Do not apply directly to areas where surface water is present, or to Document no: Effective Date: March 2021 Revision date (version): June 2022 (4) Product Code:

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intertidal areas below the mean high-water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

### 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. Do not store near heat, open flame, sources of ignition or hot surfaces and 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: Fluorinated plastic containers.

#### CONTROLS AND PERSONAL 8. EXPOSURE 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 how this product 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: If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use an approved respirator (NIOSH approved, airpurifying respirator with cartridges / canisters approved for organic vapours) suitable for protection from mists of pesticides is adequate. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

Hand Protection: Employee must wear appropriate synthetic protective gloves to prevent contact with this product.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact. This product causes serious eye damage. Contact lenses are not protective eye devices.

Skin and Body Protection: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this product. Do not wear leather clothing.

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

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CROP PROTECTION		

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appropriate alternative within the immediate work area for emergency use.	Reproductive toxicity: Not classified. Specific target organ toxicity – single exposure: Not classified.			
9. PHYSICAL AND CHEMICAL PROPERTIES	Specific ta	rget org	gan toxicity – repeate	ed exposure:
Appearance: Homogeneous clear yellow liquid without	Not classifie		: May be fatal if swall	lowed and enters
coagulation, emusifiable concentrate.	the airways		,	
Odour: Chemical odour.			lot available.	
Odour threshold: Not available.	POTENTIA		ERSE EFFECTS:	
<b>pH (1% aqueous dilution):</b> 6.6 (1% m/v solution).	Inhalation:			
Melting point: Not available. Freezing Point: Not available.	Ingestion:			
Boiling Point: Not available.	Other info	rmation	: Not available.	
Flash Point: Not available.				
Flammability: Not flammable.	12. ECOLU	JGICAL	INFORMATION	
Upper / lower explosion limits: Not available.	This produ	ıct is e	xpected to be very	toxic to aquatic
Vapour Pressure (mm Hg): Not available.	organisms.		, ,	
Relative Vapour Density: Not available.	EČOTOXIC	CITY DA	TA:	
Density / Relative density: $0.998 \pm 0.05 \text{ g/m} \ell @ 20^{\circ}\text{C}.$	Active ing	redient		
Solubility: Emulsifies in water.				
n-octanol / water partition coefficient: Not available.	Eish: LC <sub>50</sub> (96 h		Dainhaw traut	0.00026 mg/4
Auto-ignition temperature: Not available.	LC50 (901	1)	Rainbow trout	0.00036 mg/ <i>l</i>
Decomposition temperature: Not available.			Bluegill sunfish	0.00021 mg/e
Viscosity: Not available			Channel catfish	0.00016 mg/e
10. STABILITY AND REACTIVITY			Zebrafish	0.00064 mg/e
IU. STADILITT AND REACTIVITT	<b>_</b>		Fathead minnows	0.00070 mg/ℓ
<b>Chemical stability:</b> The product is stable for two years at	Daphnia:			0.00000
ambient temperature and pressure, under normal storage	EC <sub>50</sub> (48 h	1)		0.00023 mg/ℓ
and handling conditions. Avoid storage under extreme	Algae:	<b>L</b> )	Selenastrum	> 1 0 mg/
temperatures and conditions. Store below 50°C,	ErC <sub>50</sub> (92	(1)	capricornutum	>1.0 mg/ℓ
preferably below 30°C, and not for prolonged periods in	Birds:		capilconnulum	
direct sunlight.	Acute oral		Mallard ducks	>3950 mg/kg
Reactivity: None known.	Dietary	LD <sub>50</sub>		>5300 mg/kg
Possibility of hazardous reactions: Unlikely to occur.	(8d)	00		diet
<b>Conditions to avoid:</b> Extreme heat or exposure to flames.	Bees:			
<b>Incompatible materials:</b> Incompatible with strong	LD <sub>50</sub> conta	act		0.038 µg/bee
oxidizing substances and strong acids and alkaline	LD <sub>50</sub> oral			0.909 µg/bee
materials.	Worms:			
Hazardous decomposition products: Thermal	LC <sub>50</sub>		Eisenia feitida	>1000 mg/kg
decomposition products are toxic and may include				soil
hydrocarbons, ammonia, organic and acid halids, oxides	ENVIRON		L EFFECTS	
of carbon, nitrogen and sulphur.	-		tion for the active in	aredient
			French & J.P. Leahe	
11. TOXICOLOGICAL INFORMATION			Dis., 1990, 3, 1029-10	
ACUTE TOXICITY:			legradability: Rapidly	
Calculated according to GHS.	$DT_{50}$ under lab conditions 23-82 days; in field 6-40 days.			
<b>Oral LD</b> <sub>50</sub> (24h) >1000 mg/kg (rat)	Rapid dissipation from water in aquatic system. DT <sub>50</sub> for dissipation from surface waters in lab, water-sediment			
Dermal LD <sub>50</sub> >1900 mg/kg (rabbit)				
Inhalation LC <sub>50</sub> (4h) > 1.0 mg/ $\ell$ (rat)			irs; in a microcosm,	
Skin Irritation: Causes mild skin irritation.			ve degradation of par	
Eye Damage: Causes serious eye damage.			DT50 for degradatio 7-15 days; in a mic	
Skin Sensitization: Not classified.	hours, DT9			10005111, D150 <3
Respiratory Sensitization: Not classified.			<b>potential:</b> Strongly	adsorbed to soil
Reproductive cell mutagenicity: Not classified.			anic matter; $K_{oc}$ 330	
Carcinogenicity: Not classified.		en org		



## **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. Considered a Marine Pollutant. Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

**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 (<u>www.croplife.co.za</u>). 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**

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**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 millilitres, 1, 2, 2.5, 5, 10, 20 and 25 litres fluorinated plastic containers and labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

**H301:** Toxic if swallowed.

H315: Causes skin irritation.

**H413:** May cause long lasting harmful effects to aquatic life.

IATA: International Air Transport Association.

**IBC:** International Bulk Chemical.

**ICAO:** International Civil Aviation Organization.

**IMDG:** International Maritime Dangerous Goods

**IMO:** International Maritime Organization.

 $LD_{50}$  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.

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For detailed information on revisions, contact the Registration holder.