

Document no: Date created: Revision date (version): Product Code:

260UL August 2012 October 2024 (7) INLAMBDAKILL106CS/UN

SAFETY DATA SHEET

1. CHEMICAL IDENTIFIC		AND COMPANY	Label elements:		
Product Name:LAMBDA KILL 106 CSOther identifier:Lambda-cyhalothrin 106 CSRecommended use:InsecticideRestrictions on use:Public health, hygiene and industrial					
Supplier: Universal Crop Protection (Pty) Ltd. Co. Reg. No.: 1983/008184/07 PO Box 801, Kempton Park, 1620, South Africa			Signal word: Danger.		
Telephone: Fax:	(011) 396 2233 (011) 396 4666		Hazard statements: H302: Harmful if swallowed.		
Website: www.villacrop.co.za Emergency telephone numbers:		<u>za</u>	H304: May be fatal if swallowed and enters airways. H331: Toxic if inhaled. H400: Very toxic to aquatic life.		
24 Hr Transport / Spill emergency no:(Hazcall24)+27 86 044 4411(Client: Villa Crop Protection)+27 82 446 8946Griffon Poison Information Centre+27 82 446 8946Poisoning Emergency telephone numbers:Griffon Poison Information CentreGriffon Poison Information Centre+27 82 446 8946Poisons Information Centre+27 82 446 8946Poisons Information Centre+27 861 555 777			 H410: Very toxic to aquatic life with long lasting effects. Precautionary statements: P264: Wash hands and face thoroughly after handling. P261: Avoid breathing dust, fume, gas, mists, vapours or spray. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. 		
2. HAZARDS IDE UN GHS, Regu EU & SANS 102	lation EC 1272/2	008 [EU-GHS/CLP]	P273: Avoid release into the environment. P301+P316: IF SWALLOWED: Get emergency medical help immediately. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
Hazard			P330: Rinse mouth.		
classes	categories		P331: Do NOT induce vomiting.		
Health	Aguta Taviaity (11202	P391: Collect spillage.		
oral	Acute Toxicity 4	H302	P403+P233: Store in a well-ventilated place. Keep		
Oral and Inhalation	Asp. Tox. 1	H304	container tightly closed.		
Inhalation	Acute Toxicity 3	H331	P405: Store locked up.		
Environment	, ,	11551	P501: Dispose of content/container to suitable landfill in accordance with local regulations.		
Aquatic Acute		H400			
	Aquatic Acute 1		Special labelling of certain mixtures:		
Aquatic Chronic	Aquatic Chronic	H410	None known. Other hazards:		
Physiochemical Human health eff None known. Human health eff May be fatal if swa Fatal if inhaled (Ad	fects: allowed and enters	wn. airways (Asp. Tox. 1).	None known. Toxicity: Classification according to GHS: Category 3. 3. COMPOSITION / INFORMATION ON INGREDIENTS Substance/Mixture: Mixture. Composition:		



Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Lambda- cyhalothrin	91465-08- 6	11.08%	Acute Tox. 3 (H331) Acute Tox. 3 (H331) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Solvesso 64742-94- 150 5		< 15 %	Asp. Tox. 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: Remove source of contamination or move victim to fresh air. Keep affected person warm and at rest. Seek medical attention.

Skin: Gently wipe of excess chemical. Remove contaminated clothing, shoes and leather goods and wash before re-using. Wash skin thoroughly with water and non-abrasive soap. If irritation persists obtain medical attention.

Eyes: Immediately flush eyes with clean water. Lift eyelid (s) to facilitate irrigation. If present, remove contact lenses after and continue rinsing.

Ingestion: Seek medical attention or call a poison control centre for treatment advice if you feel unwell. 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. Avoid aspiration as product contains a solvent.

Anticipated acute effects: Transient paraesthesia effects (itching, tingling, burning or numbness) or allergic skin reactions may occur from skin contact. Pulmonary oedema and pneumonitis may result from aspiration. Inhalation of high vapour levels may cause headaches, drowsiness or dizziness.

Anticipated delayed effects: Nausea, vomiting, diarrhoea, abdominal pain, ataxia, unsteady gait, hyperexcitability, salivation, tremors and incontinence.

Most important symptoms/effects: Ingestion of large amounts may cause convulsions and loss of consciousness.

Advice to physician: There is no specific antidote available. This product contains materials that may cause severe pneumonitis if aspirated. In cases of ingestion,

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consider gastric lavage however, prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Extinguish small fires with water spray, carbon dioxide, dry powder or alcoholresistant foam. For large fires, use alcohol-resistant foam. Unsuitable Extinguishing Media: High volume water jet. Specific hazards: Irritating or hazardous gases may be generated by thermal decomposition or 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. 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 waster 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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Do not breathe in spray mist or dust / fumes / vapours. 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 to be very 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: Contain spilled product by diking area with sand, earth, vermiculite or clay. 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



ventilation is preferred. Ensure that control systems are

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drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the			ed material or ontaminate the	properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.		
spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal				Personal Protective Equipment: Respiratory Protection: Wear an organic cartridge		
considerations.				respirator suitable for protection from mists/ vapours of		
7. HANDLING A	AND STORAG	E		pesticides if inhalation is likely to occur. Hand Protection: The employee must wear appropriate		
Handling:				chemically resistant gloves e.g. nitrile rubber gloves, to prevent contact with this mixture. Eye Protection: Wear a face shield when handling the		
Ensure adequa May be harmful skin. Do not ha	if swallowed.	Avoid contact	with eyes and	concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.		
skin. 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 the case of contact with the product refer to First Aid				Skin and Body Protection: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this		
Measures - Sec				substance.		
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			before eating, the toilet or at the end of	Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this mixture; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.		
again. Storage:						
-	· safe stora	ne: Keep out	of reach of	9. PHYSICAL AND CHEMICAL PROPERTIES		
Conditions for safe storage: Keep out of reach of unauthorised persons, children and animals. Store in its original labelled container in an isolated, dry, cool and well-				Appearance: Off-white to pale yellow liquid, capsule		
ventilated area.		-		Odour: Slight aromatic odour.		
sources of ig				pH (1% aqueous dilution): 4.5 to 9.0		
contamination w			tilisers. Local	Melting point: Not available.		
regulations shou				Freezing Point: Not available.		
Incompatible	substances	and mixture	es: Refer to			
product label.	eriel: Elucrice	ted alectic com	tainana	Flash Point: > 90°C.		
Packaging mat	erial: Fluorina	ted plastic con	lainers.	Flammability: Not flammable.		
8. EXPOSUR		OLS AND	PERSONAL	Upper/lower explosion limits: Not available. Vapour Pressure (mm Hg): Not available.		
PROTECTION				Relative Vapour Density: Not available.		
				Density/Relative density: 1.04 g/mℓ @ 20°C.		
Permissible co				Solubility: Suspends in water.		
Components	Exposure	Type of	Source	n-octanol/water partition coefficient: Not available.		
	limits	exposure		Auto-ignition temperature: Not available.		
Larabda	Nist	limit		Decomposition temperature: Not available.		
Lambda- Cyhalothrin	Not established	0.04 mg/m ³ TWA	OEL	Viscosity: Not available.		
Solvent	100 ppm	(Dermal) 435 mg/m ³	OSHA	10. STABILITY AND REACTIVITY		
		(TWA)	PEL	Chemical Stability: Product is stable at ambient		
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			ite depend on t of exposure.	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.		
systems to maintain airborne concentrations below OSHA				Reactivity: None known.		
PELs or other specified exposure limits. Local exhaust						

PELs or other specified exposure limits. Local exhaust Possibility of Hazardous Reactions: None Known.

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CROP PROTECTION		

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Conditions to Avoid: Avoid extreme heat or exposure to flames. Incompatible Materials: None known. Hazardous Decomposition Products: Can decompose at high temperatures and form irritant or hazardous gases. 11. TOXICOLOGICAL INFORMATION			$\label{eq:constraint} \begin{array}{ c c c c } \hline \textbf{Other aquatic organisms:} & \mbox{Intrinsic toxicity to aquatic organisms is greatly reduced by rapid loss from the water by adsorption and degradation.} \\ \hline \textbf{Birds:} & & \\ \mbox{LD}_{50} & \mbox{Mallard ducks} & > 3950 \mbox{ mg/kg.} \\ \mbox{Dietary LC}_{50} & \mbox{Quail} & > 5300 \mbox{ mg/kg.} \\ \mbox{No accumulation of residues in eggs or tissues.} \end{array}$		
ACUTE TOXICITY:Calculated according to GHSOral LD_{50} (24 h) rat505.56 mg/kg.Dermal LD_{50} (24 h) rabbit>5000 mg/kg.Inhalation LC_{50} (4 h) rat0.52 mg/ ℓ .Skin Irritation/Corrosion: Not classified.Eye Damage/Irritation: Not classified.Skin Sensitization: Not classified.Skin Sensitization: Not classified.Respiratory Sensitization: May be toxic if inhaled.Reproductive cell mutagenicity: Not classified.			Plants: For details of meta and soya bean lear	isenia foetida > bolism of lambda-cyha ves, see D. A. French ot. Conf Pests Dis.,	& J. P. Leahey,
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: May be fatal if swallowed and enters airways. Chronic Effects: Not classified. POTENTIAL ADVERSE EFFECTS: Inhalation: May cause headaches, drowsiness or dizziness. Skin contact: Allergic skin reactions are possible. Transient paraesthesia effects (itching, tingling, burning or numbness) may occur from skin contact. Eye contact: None known. Ingestion: May cause headaches, drowsiness or			ENVIRONMENTAL EFFECTS: Persistence and degradability: Rapidly degraded in soil; DT ₅₀ 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. DT ₅₀ for dissipation from surface waters in lab. water-sediment systems 5-11 h; in a microcosm DT ₅₀ <3 h. Rapid and extensive degradation of parent compound in aquatic systems; DT ₅₀ for degradation in lab. water-sediment systems 7-15 d; in a microcosm DT ₅₀ <3 h, DT ₉₀ <3 d. Bio-accumulative Potential: Lambda-cyhalothrin does not bioaccumulate. Mobility in soil: Lambda-cyhalothrin is immobile in soil. Other adverse effects: Very toxic to aquatic life with long lasting effects.		
Other: Pulmonary oedema and pneumonitis may result from aspiration.			13. DISPOSAL CO	NSIDERATIONS	this posticido is
12. ECOLOGICAL INFORMATIONThis product is very toxic to aquatic life with long lasting effects.ECOTOXICITY DATA: AI – Lambda-cyhalothrinFish:LC ₅₀ (96h):Rainbow trout:0.36 $\mu g/\ell$.Bluegill sunfish:0.21 $\mu g/\ell$.			prohibited. Waste resulting from the use of this product is 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. Waste should only be handled by licensed facilities. Container: Emptied containers retain vapour and product		
EC ₅₀ (48 h) <u>Algae:</u> ErC ₅₀ (96h)	D. magna S. capricornutum	0.36 µg/ℓ. >1000 µg/ℓ.	residues. Do not re purpose. Triple rin empty container ov draining for at least	-use the empty containers se empty containers ver the spray or mixing t 30 seconds after the ereafter, rinse the cont	ner for any other by inverting the g tank and allow flow has slowed



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with a volume of water equal to a minimum of one third of	16. OTHER INFORMATION		
that of the container. Add the rinsings to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Observe all labelled safeguards	Packaging: Packed in 10 m <i>ℓ</i> , 20 m <i>ℓ</i> , 50 m <i>ℓ</i> , 100 m <i>ℓ</i> , 250 m <i>ℓ</i> , 500 m <i>ℓ</i> and 1 litre fluorinated plastic containers, labelled according to South African regulations and guidelines.		
until container is destroyed. 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.	Additional H-statement (s) (formulants) H301: Acute Tox. 3 H330: Acute Tox. 2 IATA: International Air Transport Association.		
14. TRANSPORT INFORMATION	IBC: International Bulk Chemical. ICAO: International Civil Aviation Organization.		
UN NUMBER: 3352	 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. 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. 		
Road Transport ADR/RID:Class:6.1Packaging group:IIShipping name:PYRETHROID PESTICIDE,LIQUID, TOXIC (LAMBDA- CYHALOTHRIN, 106 G/L)			
Maritime Transport IMDG/IMO:Class:6.1Packing group:IIShipping name:PYRETHROIDPESTICIDE,LIQUID, TOXIC (Lambda-cyhalothrin, 106 g/l)Marine Pollutant:YesAir Transport IATA/ICAO:Class:6.1Packaging group:IIShipping name:PYRETHROIDPESTICIDE,LIQUID, TOXIC (Lambda-cyhalothrin, 106 g/l)Special/Environmental Precautions:Wedgedrums	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.		
tightly to avoid movement. Transport in bulk (according to MARPOL 73/78, Annex II	END OF DOCUMENT		
and the IBC code): Not applicable.	Compiled: August 2012 Reviewed: October 2024		
15. REGULATORY INFORMATION Safety, health and environmental	Revision no.:(7)Next revision:October 2029		
regulations/legislation for the mixture: OHSA 1993 Regulations for Hazardous Chemical Substances. Relevant information regarding restrictions: None.	For detailed information on revisions, contact the Registration holder.		
EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)			
Other national regulations: None.			
Chemical Safety Assessment carried out? No			