

Document no: 446VS Effective date: August 2018 Revision date (version): June 2022 (4) Product Code: HERIMMIMOX48SL/VS

SAFETY DATA SHEET

1. CHEMICAL	PRODUCT AND COMPANY	
IDENTIFICATION		Hazard statements:
		H316: Causes mild skin irritation.
Product Name:	IMMIMOX 48 SL	H361: Suspected of damaging fertility or the unborn child.
Other identifier:	Imazapyr 15 g/l + Imazamox 33	H400: Very toxic to aquatic life.
	g/l	H410: Very toxic to aquatic life with long lasting effects.
Recommended us	e: Herbicide	
Restrictions on us	e: Agriculture	Precautionary statements:
		P203: Obtain, read and follow all safety instructions before
Supplier:	Villa Crop Protection (Pty) Ltd.	use.
	Co. Reg. No.: 1992/002474/07	P273: Avoid release to the environment.
	PO Box 10413	P280: Wear impervious rubber gloves and boots,
	Aston Manor, 1630, South Africa	protective clothing and chemical safety goggles.
Telephone:	(011) 396 2233	P318: IF exposed or concerned, get medical advice.
Fax:	(011) 396 4666	P332+P317: If skin irritation occurs: get medical help.
Website:	www.villacrop.co.za	P391: Collect spillage.
		P405: Store locked up.
Emergency telephone numbers:		P501: Dispose of contents/container in accordance with
24 Hr Transport / Spill emergency no:		local regulations.
(Hazcall24)	+27 86 044 4411	
(Client: Villa Crop Protection)		Special labelling of certain mixtures:
Griffon Poison Information Centre +27 82 446 8946		None known.
(Client: Villa Crop Protection)		Other hazards:
Poisoning Emergency telephone numbers:		None known.
Griffon Poison Information Centre +27 82 446 8946		Toxicity:
Poisons Information Centre +27 861 555 777		Classification according to GHS: Unclassified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008 Hazard classes Hazard **H-statements** categories Health Dermal Skin Irritation 2 H315 Reproductive H361 Reproductive Toxicity 2 Environment Aquatic acute Aquatic Acute 1 H400 Aquatic Chronic 1 Aquatic chronic H410

The most important adverse effects: Physiochemical effects: None known.

2. HAZARDS IDENTIFICATION

Human health effects:

Causes skin irritation.

Suspected of damaging fertility or the unborn child.

Label elements:



Signal word: Warning

Substance/Mixture: **Composition:**

Chemical Classification EC CAS Conc. Name (m/v %) 1272/2008 81334-34-1 2 Imazapyr 1.5 % Eye Irritation (H319) Aquatic Chronic 3 (H412) Imazamox 114311-32-3.3 % Aquatic Acute 1 (H400) (M=10) q Aquatic Chronic 1 (H410) (M=10) **Reproductive Toxicity** 2 (H361) Calcium 26264-06-2 <2% Acute Toxicity 4 dodecylben-(H302) zene sulfonate Eye Irritation 2 (H312) Eye Damage 1 (H318) Aquatic Chronic 4 (H413) Mono-141-43-5 <2% Acute Toxicity 4 ethanolamine (H302) Acute Toxicity 4 (H312) Skin Corrosion 1B (H314) Acute Toxicity 4 (H332)



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 A. 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. 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. Obtain medical attention if 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. Obtain 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: None known. 	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 to be very toxic to aquatic life with long lasting effects. 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: 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 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
 Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers Specific hazards: None known 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. 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. 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. 	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
Personal Precautions: Avoid contact with eyes. Do not breathe in spray mist or dust. Ventilate area of spill or	



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8. EXPOSURE CONTROLS AND PERSONAL	n-octanol/water partition coefficient: Not available.
PROTECTION	Auto-ignition temperature: Not available.
_	Decomposition temperature: Not available.
Permissible concentration: No occupational exposure	Viscosity: Not available.
limits have been determined for the significant ingredients	
in this product.	10. STABILITY AND REACTIVITY
Engineering Controls:	Chemical Stability: The product is stable for two years at
It is essential to provide adequate ventilation. The	ambient temperature and pressure, under normal storage
measures appropriate for a particular worksite depend on	and handling conditions. Avoid storage under extreme
how this material is used and on the extent of exposure.	temperatures and conditions. Store below 50 °C,
Local Exhaust: Provide general or local exhaust ventilation	preferably below 30 °C, and not for prolonged periods in
systems to maintain airborne concentrations below OELs	direct sunlight.
or other specified exposure limits. Local exhaust ventilation	Reactivity: None known.
is preferred. Ensure that control systems are properly	Possibility of Hazardous Reactions: Will not occur.
designed and maintained. Comply with occupational	Conditions to Avoid: Extreme heat or exposure to flames
safety, environmental, fire, and other applicable	Incompatible Materials: Strong oxidizers, strong bases,
regulations.	strong reducing agents.
Personal Protective Equipment: Respiratory Protection: For most well-ventilated	Hazardous Decomposition Products: Alcohols. Carbon
conditions, no respiratory protection should be needed. If	monoxide and carbon dioxide may form under burning
used in a poorly ventilated area (airborne concentrations	conditions or with incomplete combustion
exceed exposure limits), use a NIOSH approved air-	11. TOXICOLOGICAL INFORMATION
purifying respirator.	
Hand Protection: The use of chemically protective gloves	ACUTE TOXICITY:
is recommended to prevent against skin contact.	Based on experimental data
Eye Protection: The use of chemical safety goggles is	Oral LD 50: >5000 mg/kg
recommended to prevent against eye contact. Contact	Dermal LD ₅₀ : >5000 mg/kg
lenses are not protective eye devices.	Inhalation LC ₅₀ : >10 mg/ℓ
Skin and Body Protection: Employee must wear	Skin Irritation/Corrosion: Causes mild skin irritation.
appropriate protective clothing; boots, hat and equipment	Eye Damage/Irritation: Not classified.
to prevent repeated or prolonged skin contact with this	Skin Sensitization: Not classified.
substance. Emergency eyewash: Where there is any possibility that	Respiratory Sensitization: Not classified Reproductive cell mutagenicity: Not classified.
an employee's eyes may be exposed to this substance;	Carcinogenicity: Not classified.
the employer should provide an eye wash fountain or	Reproductive toxicity: Suspected of damaging fertility or
appropriate alternative within the immediate work area for	the unborn child.
emergency use.	Specific target organ toxicity – single exposure: Not
	classified.
9. PHYSICAL AND CHEMICAL PROPERTIES	Specific target organ toxicity – repeated exposure: Not
Appearance, Light vallow liquid, Soluble concentrate	classified.
Appearance: Light yellow liquid, Soluble concentrate. Odour: Characteristic odour.	Aspiration hazard: Not classified.
pH (1% aqueous dilution): 6.3 @ 20°C.	Chronic Effects (other targets e.g. developmental): Not
Melting point: Not available.	
Freezing Point: Not available.	POTENTIAL ADVERSE EFFECTS: Inhalation: Not classified.
Boiling Point: Not available.	Skin contact: Not classified.
Flash Point: Not available.	Eye contact: Not classified.
Flammability: Not available.	Ingestion: Not classified
Upper/lower explosion limits: Not available.	Other information: None known
Vapour Pressure (mm Hg): Not available.	
Relative Vapour Density: Not available.	12. ECOLOGICAL INFORMATION
Density: 1.132 g/cm3 at 20°C.	
Solubility: Emulsifies in water.	This product is expected to be a marine pollutant.



AFETY	DATA	SHEET
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Birds:			Persistence and degradability: Plants: Imazamox - In
Imazamox:			plants, the methyl group of the benzene moiety is oxidised
	Pohyubito guoil	1946 ma/ka	to a hydroxymethyl group; glucoside conjugates have
Acute oral LD ₅₀	Bobwhite quail	>1846 mg/kg	been identified as secondary metabolites. Imazapyr –
(14 d)	Mallard ducks	>1950 mg/kg	
			Following foliar application, residues in plants decline
Dietary LC ₅₀	Bobwhite quail	>5572 mg/kg	rapidly in the first 24 hours. The major residue in plants is
-	Mallard ducks		the parent compound.
			Bio-accumulative Potential: Animals: Imazamox - In
Imazapyr:			rats, following oral administration, rapidly excreted in urine
Acute oral LD_{50}	Pohyubito guoil	> 2150 mg/kg	and faeces, mainly as unchanged parent. Imazapyr - In
Acule oral LD ₅₀	Bobwhite quail	>2150 mg/kg	rats, following oral administration, c. 87% of the dose was
	Mallard ducks		
Dietary LC ₅₀	Bobwhite quail	>5000 mg/kg	excreted in the urine and faeces within 24 h. In muscle
(8 d)	Mallard ducks		and fat tissues and blood, residual levels were <0.01
			mg/kg at both 24 and 192 h.
Bees:			Mobility in soil: Imazamox – Degrades aerobically in the
Imazamox:			soil to a non-herbicidal metabolite; also degrades by
LD_{50} contact		> 25 mg/boo	aqueous photolysis; photdegradation is slow in soil. Lab
•••		>25 mg/bee	DT_{50} 12-207 d (median 44 d) (20 °C). Field DT_{50} 5-41 d.
(72 h)		40 "	
LD ₅₀ oral (48 h)		>40 mg/bee	No clear dependence of degradation rates on pH or timing
Imazapyr:			of application. K_{oc} 2-374 (mean 67). Imazamox is mobile,
LD ₅₀ contact		100 mg/bee	but the terminal soil metabolite is moderately mobile to
		0	immobile. Leaching of imazamox in filed studies was very
Worms:			limited. Imazapyr – In field dissipation studies, DT ₅₀ 24-
Imazamox:			143 d. Aerobic soil degradation laboratory studies were
			generally longer, DT_{50} 117 (biphasic) to 313 d.
LC ₅₀		>901 mg/kg soil	Degradation is primarily due to soil microbial activity, which
<u>Other aquatic</u>			
<u>spp.</u>			is not represented in laboratory studies. In water, DT_{50} 7d;
Imazamox			degradation is due to photolysis. Bioaccumulation in the
EC ₅₀ (14 d)	Lemna gibba	0.011 mg/ℓ	environment is highly unlikely. The major residue it the
Fish:			parent compound.
	Bainhow trout	100 mg/4	Other adverse effects: Not determined
Imazamox:	Rainbow trout	>122 mg/ℓ	
LC ₅₀ (96 h)	Bluegill sunfish	>119 mg/ℓ	
Imazapyr:			13. DISPOSAL CONSIDERATIONS
LC ₅₀ (96 h)	Rainbow trout	>100 mg/ℓ	
,	Bluegill sunfish	5	Waste: Open dumping or burning of this pesticide is
	Channel catfish		prohibited. Waste resulting from the use of this product
Donhnio	Charliner Cathon		cannot be reused or re-processed. Never pour untreated
Daphnia:			
Imazamox:		100 /	waste or surplus product into public sewers or where there
EC ₅₀ (48 h)		>122 mg/ℓ	is any danger of run-off or seepage into water systems.
Imazapyr:			Do not contaminate rivers, dams or any other water
EC ₅₀ (48 h)		>100 mg/ℓ	sources with the product or used containers. Comply with
Algae:	Anabaena flos-		local legislation applying to waste disposal. The product
			may be taken to a registered waste disposal site or
Imazamox:	aquae,		incineration plant.
EC ₅₀ (120 h)	Skeletonema		
	costatum,	0.037 mg/ℓ	Container: Emptied containers retain product residues.
	Navicula	0.007 mg/t	Do not re-use the empty container for any other purpose.
	pelliculosa and		Invert the empty container over the spray or mixing tank
	Selenastrum		and drain for at least 30 seconds after the flow has slowed
	capricornutum		down to dripping. Thereafter rinse the empty container
Imazon	caphoonnulun		three times in succession with one quarter of the
Imazapyr:	Optom		container volume fresh water and decant the rinsate
EC ₅₀ (120 h)	Selenastrum	71 mg/ <i>l</i>	
	Anabaena	11.7 mg/ℓ	into the spray or mixing tank.
	Skeletonema	85.5 mg/ <i>l</i>	Puncture the triple rinsed container and dispose of via
	Navicula		an approved collector or recycler (<u>www.croplife.co.za</u>).
		>59 mg/ℓ	Do not bury, burn or donate the container to any other
			parties that may use it as a container for food or
ENVIRONMENTA	L EFFECTS:		
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beverages. Observe all labelled safeguards until container is destroyed.	H332: Harmful if inhaled. H412: Harmful to aquatic life with long lasting effects
	H413: May cause long lasting harmful effects to aquatic
14. TRANSPORT INFORMATION	life.
UN Number: 3082 Road Transport ADR / ORD: Class: 9 Packaging group: III UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (Imazapyr 15 g/ℓ + Imazamox 33 g/ℓ) Maritime Transport IMDG / IMO: Class: 9	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
Packaging group:	thereof.
UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (Imazapyr 15 g/ ℓ + Imazamox 33 g/ ℓ)	END OF DOCUMENT
Marine pollutant (Y/N): YesAir Transport IATA / ICAO:Class:9Packaging group:III	Compiled:Augustus 2018Reviewed:June 2022Revision no.:(4)Next revision:June 2027
UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S (Imazapyr 15 g/ ℓ + Imazamox 33 g/ ℓ)	For detailed information on revisions, contact the Registration holder.
Special/Environmental Precautions: Wedge drums tightly to avoid movement. Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.	
15. REGULATORY INFORMATION	
Safety,healthandenvironmentalregulations/legislation for the mixture:OHSA1993RegulationsforHazardousChemicalSubstances.	
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, 100 and 200 litres plastic containers and PE lined metal drums, labelled according to South African regulations and guidelines. Additional H statements (formulants): H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H318: Causes serious eye irritation. 	