

HORNET **ASO SI**

Document no: Effective Date: Revision date (version): **Product Code:**

July 2022 (4) HBEND48SL/MU SAFETY DATA SHEET

102VM

May 2005

Πυκίνει	400 SL	JAFETT DATA SHEET		
1. CHEMIC		H317: May cause an allergic skin reaction.		
IDENTIF	ICATION	H412: Harmful to aquatic life with long lasting effects.		
		Precautionary statements:		
Product Name		P260: Do not breathe dusts or mists.		
Other identifier: Bendioxide 480 SL		P264: Wash hands and face thoroughly after handling.		
Recommended use: Herbicide		P272: Contaminated work clothing should not be allowed		
Restrictions on use: Agriculture		out of the workplace.		
		P273: Avoid release to the environment.		
Supplier:	Villa Crop Protection (Pty) Ltd.	P280: Wear impervious rubber gloves and boots,		
	Co. Reg. No.: 1932/002474/07	protective clothing and chemical safety goggles.		
	PO Box 10413,	P301+P330+P331+P317: IF SWALLOWED: Rinse		
	Aston Manor, 1630, South Africa	mouth. Do NOT induce vomiting. Get medical help.		
Telephone:	(011) 396 2233	P302+P352: IF ON SKIN: Wash with plenty of water and		
Fax:	(011) 396 4666	non-abrasive soap.		
Website:	www.villacrop.co.za	P302+P361+P354+P316: IF ON SKIN: Take off		
	-	immediately all contaminated clothing. Immediately rinse		
Emergency tel	lephone numbers:	with water for several minutes. Get emergency medical		
24 Hr Transpo	rt / Spill emergency no:	help immediately.		
(Hazcall24)	+27 86 044 4411	P304+P340+P316: IF INHALED: Remove person to fresh		
(Client: Villa Cr	op Protection)	air and keep comfortable for breathing.		
Griffon Poison Information Centre +27 82 446 8946		P305+P354+P338+P316: IF IN EYES: Immediately rinse		
(Client: Villa Crop Protection)		with water for several minutes. Remove contact lenses, if		
Poisoning Emergency telephone numbers:		present and easy to do. Continue rinsing. Get emergency		
Griffon Poison Information Centre +27 82 446 8946		medical help immediately.		
Poisons Information Centre +27 861 555 777		P321: See specific treatment on this label.		
		P333+P317: If skin irritation or rash occurs: Get medical		
2. HAZARDS IDENTIFICATION		help.		
		D262: Weak contaminated elething hefore use		

P363: Wash contaminated clothing before use.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local regulations.

Other hazards:

None known.

H-statements

H303

H314

H317

Toxicity:

Classification according to GHS: Category 5

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture.

Chemical name	CAS	Conc. (m/v %)	Classification EC 1272/2008	
Bendioxide 97%	25057-89-0	48%	Acute Toxicity 4 (H302) Eye Irritation 2 (H319) Skin Sensitization 1 (H317) Aquatic Chronic 3 (H412)	
Causric soda	1310-73-2	< 10%	Skin Corrosion 1A (H314)	

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.

Label elements:

Signal word: Danger Hazard statements: H303: May be harmful if swallowed. H314: Causes severe skin burns and eye damage.

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP]

Acute Toxicity 5

Skin Corrosion 1A

Skin Sensitizer 1

Hazard

Aquatic Chronic Aquatic Chronic 3 H412

Human health effects: May be harmful if swallowed. Causes severe skin burns and eye damage. May cause

The most important adverse effects: Physiochemical effects: None known

categories

EU & SANS 10234:2008

Hazard classes

Environment

an allergic skin reaction.

Health

Oral

Skin



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Inhalation: Remove person from contaminated area to fresh air and assist breathing if needed. Get medical help. **Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap for at least 15 to 20 minutes. Do not rub the skin. **Get emergency medical help immediately.**

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. **Get emergency medical help immediately.**

Ingestion: Get medical help 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 and give the person a glass of water to drink.

Anticipated acute effects: May be harmful if swallowed. Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Anticipated delayed effects: None known.

Most important symptoms / effects: Acute poisoning by Bendioxide is unlikely, unless large amounts have been ingested. Human ingestion of high doses may cause vomiting, diarrhoea, trembling, weakness, and irregular breathing.

Advice to physician: Treat symptomatically and supportively. No specific antidote known. In cases of ingestion of large amounts, gastric lavage may be indicated.

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

Specific hazards: On heating toxic fumes, such as sulphur dioxide and oxides of nitrogen may be produced.

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 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.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or dust. 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 harmful 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 suitable detergent. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Avoid contact with eyes and skin. 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 product. 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. Do not store near heat, open flame, sources of ignition or hot surfaces. 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.



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Packaging material: Plastic containers. EXPOSURE CONTROLS PERSONAL 8. AND PROTECTION

Permissible concentration

Ingredient	8-hour TWA (ST) STEL (C) Ceiling	Resource
Caustic soda	2 mg/m ³	Permissible Exposure Limits – OSHA Annotated Table Z-1 Occupational Safety and Health Administration

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, airpurifying respirator with cartridges / canisters approved for organic vapours.

Hand Protection: Employees must wear chemically protective gloves to prevent against skin burn.

Eye Protection: Employees must wear safety goggles and face-shield to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employees must wear appropriate protective clothing, boots, hat to prevent repeated or prolonged skin contact with this product.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this product, 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: Yellowish/brown/amber colour. Odour: Characteristic odour. Odour threshold: Not available.

pH (1% aqueous dilution): 8-10 in 1% aqueous solution.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not applicable.

Flammability: Not flammable & not combustible.

Upper / lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available. Relative Vapour Density: Not available. **Density / Relative density:** $1.088 \pm 0.05 \text{ g/}\ell$. Solubility: Readily soluble 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 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: Protect from sunlight, open flame, and sources of heat.

Incompatible materials: None known.

Hazardous decomposition products: On heating, toxic fumes, such as sulphur dioxide and oxides of nitrogen, may be produced.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS Oral LD₅₀ (24h) > 2100 mg/kg Dermal LD₅₀ (24h) >5400 mg/kg Inhalation LC₅₀ (4h) > 11 mg/*e*

Skin corrosion and eye damage: Causes severe skin burns and eye damage.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: Not classified. Reproductive cell mutagenicity: Not classified.

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: Not classified.

Chronic Effects: Not classified.

POTENTIAL ADVERSE EFFECTS:

Ingestion: May be harmful if swallowed. If high doses is ingested, the product may cause vomiting, diarrhoea, trembling, weakness, and irregular breathing.

Skin and eve contact: Causes severe skin burns and eye damage.

12. ECOLOGICAL INFORMATION

This product is expected to be harmful to aquatic life with long lasting effects.



Fish:

Algae:

Birds:

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ECOTOXICITY DATA: **Bendioxide** rainbow trout >100 mg/l. LC₅₀ (96 h) bluegill sunfish >100 mg/e. Daphnia: LC₅₀ (48 h) 125 mg/l. green algae 47.3 mg/l. EC₅₀ (72 h) (Ankistrodesmus) Acute oral LD₅₀ bobwhite quail 1140 mg/kg. bobwhite quail Dietary LC₅₀ >5000 ppm. and mallard ducks

Bees: LD₅₀ (oral) >100 µg/bee. Worms: Earthworms >1000 mg/kg soil. EC₅₀ (14 d)

ENVIRONMENTAL EFFECTS

Bendioxide.

Based on information for the active ingredient(s)

Plants: Rapidly metabolised to derivatives of anthranilic acid, the principal metabolites being the 6- and 8- hydroxy derivatives, which are conjugated to sugars, forming glycosides.

Persistence and degradability: In sunlight, bendioxide undergoes rapid degradation, ultimately to CO₂. It has low soil persistence. In freshly collected field soils, aerobic DT₅₀ (lab.,20°C) was 14 d. In lab. degradation studies, with soils of proven biological activity, DT₅₀ (ave.) was 17.8 d; DT_{50} (field, ave.) was c. 12 d; corresponding DT_{90} was 44 d. K_{∞} 13.3–176 ml/g (ave. 42 ml/g), indicating mobility. However, when used according to good agricultural practice, bendioxide is degraded more quickly than it can leach.

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. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

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 (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:		1760				
Road Transport ADR / ORD:						
Class:	8					
Packaging group:	III					
UN Proper Shipping Na	me:	CORROSIVE	LIQUID,			
		Bendioxide 480	,			
Maritime Transport IM	· ·		9,~)			
Class:	8					
Clabel	•					
Packaging group:						
UN Proper Shipping Na		CORROSIVE	,			
	N.O.S.	(Bendioxide 480	g/ℓ)			
Marine pollutant (Y/N):	Yes					
Air Transport IATA / IC	AO:					
Class:	8					
Packaging group:	ÎII -					
UN Proper Shipping Na	me:	CORROSIVE	LIQUID,			
1 11 3		Bendioxide 480	,			
Special / Environmental Precautions: Wedge drums						
tightly to avoid moveme		J J				
Transport in bulk: Refer to MARPOL 73/78, Annex II						
and the IBC code.						
15 REGULATORY INF	ORMAT					

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 and 25 litres plastic fluorinated containers and labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.



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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.

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.

END OF DOCUMENT

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Registration holder.

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