

Document no: 134 UM
Effective Date: September 2016
Revision date (version): June 2022 (6)
Product Code: IBUPRO500WDG/UM

BUPROFEZIN 500 WDG

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: BUPROFEZIN 500 WDG
Other identifier: Buprofezin 500 WDG

Restrictions on use: Insecticide Agriculture

Supplier: Universal Crop Protection (Pty) Ltd.

Co. Reg. No.: 1983/008184/07

PO Box 801,

Kempton Park, 1620, 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 8946 Poisons Information Centre +27 861 555 777

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU				
& SANS 10234:2008				
Hazard classes	Hazard	H-statements		
	categories			
Health				
Oral	Acute Toxicity 5	H303		
Dermal	Skin Irritation 2	H315		
Eye	Eye Damage 1	H318		
Specific Target	STOT RE 2	H373		
Organ Toxicity				
Repeated				
Exposure				
Environment				
Aquatic acute	Aquatic acute 1	H400		
Aquatic chronic	Aquatic chronic 1	H410		

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

Human health effects:

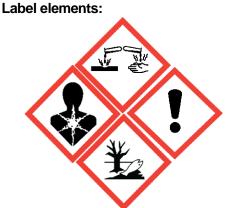
May be harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or

repeated exposure.



Signal word: Danger. **Hazard statements:**

H303: May be harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

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

Precautionary statements:

P260: Do not breathe dust and spray mist.

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

P273: Avoid release into the environment.

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

P301+P305+P332+P317: IF SWALLOWED, IN EYES or

skin irritation occurs: Get medical help.

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

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P319: Get medical help if you feel unwell.

P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

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

Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 5.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:



Document no: Effective Date: Revision date (version):

Product Code:

134 UM September 2016 June 2022 (6) IBUPRO500WDG/UM

SAFETY DATA SHEET

BUPROFEZIN 500 WDG

Chemical Name	CAS	Conc. (m/m %)	Classification EC 1272/2008
Buprofezin	69327-76-0	50 %	STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Dispersant	577-11-7	< 10 %	Skin Irritation 2 (H315) Eye Damage 1 (H318)
Dispersant	1322-93-6	< 5 %	Acute Toxicity 4 (H302) Skin Corrosion 1 (H314) Eye Damage 1 (H318) Aquatic Chronic 3 (H412)

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 and 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 occurs.**

Eyes: Flush eyes with clean water for at least 15 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. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects: May be harmful if swallowed. Causes skin irritation. Causes serious eye damage.

Anticipated delayed effects: May cause damage to organs through prolonged or repeated exposure.

Most important symptoms/effects: Prolonged contact with this product may cause slight erythema in susceptible individuals. Repeated contact may cause allergic reaction in susceptible individuals.

Advice to physician: There is no specific antidote available. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Extinguish fires with water spray, carbon dioxide, dry powder, or alcoholresistant foam.

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

Specific hazards: This product may emit toxic fumes when burned, including carbon monoxide and nitrogen oxides.

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 bunker gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin. Do not breathe in spray 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 to be very toxic to aquatic organisms and causes long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into water courses 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: Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. 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. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilled material or washings into



BUPROFEZIN 500 WDG

Document no: 134 UM
Effective Date: September 2016
Revision date (version): June 2022 (6)
Product Code: IBUPRO500WDG/UM

SAFETY DATA SHEET

drains or waterways. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: May be harmful if swallowed. Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. Do not handle broken containers without protective equipment. Immediately clean up spills that occur during handling. 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 drums / water-soluble bags in plastic drums.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Kaolin (Total dust)	10 mg/m ³	10-hour TWA	"www.osha.gov"

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), use a NIOSH approved, air-

purifying respirator with cartridges / canisters approved for organic vapours.

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

Eye Protection: Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.

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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brownish granules.

Odour: Almost odourless.
pH (1% aqueous dilution): 8.5.
Melting point: Not available.
Freezing Point: Not available.
Boiling Point: Not available.
Flash Point: Not available.
Flammability: Not flammable.

Upper/lower explosion limits: Not available. Vapour Pressure (mm Hg): Not available. Relative Vapour Density: Not available.

Density: 0.75 g/ ℓ . **Solubility:** Dispersible.

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: 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: Unlikely to occur. **Conditions to Avoid:** Extreme heat or exposure to flames.

Incompatible Materials: Strong oxidizers, strong bases, strong reducing agents.

Hazardous Decomposition Products: Sulphur dioxides, nitrogen oxides.



BUPROFEZIN 500 WDG

Document no: 134 UM Effective Date: September 2016 Revision date (version): June 2022 (6) Product Code: IBUPRO500WDG/UM

SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS. Oral LD₅₀ (24 h) rat > 3800 mg/kg. Dermal LD₅₀ (24 h) rat > 9000 mg/kg. Inhalation LC₅₀ (4 h) rat > 8.9 mg/ ℓ .

Skin Irritation/Corrosion: Causes skin irritation. **Eye Damage/Irritation:** Causes serious eye damage.

Skin Sensitization: Not classified.

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: May cause damage to organs through prolonged or

repeated exposure.

Aspiration hazard: Not classified. Chronic Effects: Not available. POTENTIAL ADVERSE EFFECTS:

Skin contact: Causes skin irritation; prolonged contact with this product may cause erythema in susceptible individuals. Repeated contact may cause allergic reaction in susceptible individuals.

Eye contact: Causes serious eye damage. **Ingestion:** May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life with long lasting effects.

ECOTOXICITY DATA: Buprofezin technical

_	•	
		•
	13	 -

LC ₅₀ (96 h)	Carp	0.527 mg/ℓ	
	Rainbow trout	>0.33 mg/ℓ	
	Bluegill sunfish	>0.33 mg/ℓ	
Danhnia:			

<u>Daphnia:</u> EC₅₀ (48 h)

 $E_b C_{50}$ (72 h) Pseudokirchneriella >2.1 mg/ ℓ

>0.42 mg/ℓ

Daphnia

subcapitata

Birds:

Acute oral LD₅₀ Bobwhite quail >2000 mg/kg
Mallard ducks >2000 mg/kg

Dietary LC₅₀ Bobwhite quail >5240 mg/kg Mallard ducks >5240 mg/kg

Bees:

LD₅₀ oral (48 h) >164 mg/bee LD₅₀ contact (72 >200 mg/bee

h)

ENVIRONMENTAL EFFECTS:

Based on information for the active ingredient

Plants: Limited metabolism in most plant species; minor metabolites indicate a pathway involving hydroxylation or oxidative loss of the *tert-butyl* group, followed by opening of the heterocyclic ring.

Persistence and degradability: DT_{50} (25°C) 104 d (flooded conditions, silty clay loam, o.c 3.8 %, p H, >6.4), 80 d, (upland conditions, sandy loam, o.c 2,4 % p H 7.0)

Bio-accumulative Potential: Log K_{ow} 4.93. Low residues were found in nearly all ruminant and poultry tissues. Extensive metabolism observed, with a large number of minor metabolites being produced.

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 dust and product residues. Do not re-use the empty container for any other purpose. Empty containers by inverting the empty container over the spray or mixing tank. Thereafter, rinse the container three times with a volume of water equal to a quarter of that of the container. 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: 3077

Road Transport ADR/IRD:

Class: 9
Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Buprofezin 500 g/kg)

Maritime Transport IMDG/IMO: Class: 9

Packaging group: III
UN Proper Shipping Name: ENVIRONMENTALLY
HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Buprofezin 500 g/kg) Marine Pollutant (Y/N): Yes



Document no: 134 UM

Effective Date: September 2016

Revision date (version): June 2022 (6)

Product Code: IBUPRO500WDG/UM

SAFETY DATA SHEET

BUPROFEZIN 500 WDG

Air transport IATA/ICAO:

Class: 9 Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Buprofezin 500 g/kg)

Special/Environmental Precautions: None known.

Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

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 30, 60, 90, 100, 150, 180, 300, 600 g and 1, 2, 5, 10, 20 & 25 kg plastic drums or water-soluble bags in plastic drums, labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage. **H412:** Harmful to aquatic life with long lasting effects.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

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.

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: September 2016

Reviewed: June 2022

Revision no.: (6)

Next revision: June 2027

For detailed information on revisions, contact the Registration holder.