

# UNIVERSAL BUPROFEZIN 500 WDG

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** BUPROFEZIN 500 WDG  
**Other identifier:** Buprofezin 500 WDG  
**Recommended use:** Insecticide  
**Restrictions on use:** 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](http://www.villacrop.co.za)

**Emergency telephone numbers:**  
**24 Hr Transport / Spill emergency no:**  
Envirosure. +27 31 205 4918  
(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 categories	H-statements
<b>Health</b>		
Oral	Acute Tox. 5	H303
Dermal	Skin Irrit. 3	H316
Eye	Eye Dam. 1	H318
Inhalation	Acute Tox. 5	H333
Specific Target Organ Toxicity Repeated Exposure	STOT RE 2	H373
<b>Environment</b>		
Aquatic acute	Aquatic acute 1	H400
Aquatic chronic	Aquatic chronic 1	H410

### The most important adverse effects:

#### Physiochemical effects:

None known.

#### Human health effects:

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

Causes mild skin irritation.

## Label elements:



**Signal word:** Danger.

#### Hazard statements:

H303: May be harmful if swallowed.  
H316: Causes mild skin irritation.  
H318: Causes serious eye damage.  
H333: May be harmful if inhaled.  
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:

P273: Avoid release into the environment.  
P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.  
P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTRE.  
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.

Classification according to WHO: Category III.

Classification according to GPIC for the active ingredient: Unclassified

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture.

### Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Buprofezin	69327-76-0	50 %	STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Dispersant	37199-81-8	< 10 %	Eye Irrit. 2 (H319)
Dispersant	577-11-7	< 10 %	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)

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Dispersant	1322-93-6	< 5 %	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT SE 3 (Inhalation) (H335)
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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.

## 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:** If vapours or mists have been inhaled, move victim to fresh air and remove source of contamination if safe to do so. The patient should be kept under observation. Obtain medical attention if irritation develops.

**Skin:** Wash skin gently and thoroughly with cold water and non-abrasive soap. Obtain medical attention if irritation persists.

**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.

**Immediately seek medical attention.**

**Ingestion:** If the person is alert, give one or two cups of water. Obtain medical attention in the event of symptoms or complaints.

**Anticipated acute effects:** 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 alcohol-resistant foam.

**Unsuitable Extinguishing Media:** Water jet.

**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. Keep upwind. Avoid inhaling hazardous

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with eyes and skin. Do not breathe in spray 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 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.

**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.

## 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 out of reach of unauthorised persons, children and animals. Store in its original labelled container in an isolated, dry, cool and

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well-ventilated area. Avoid cross contamination with other pesticides and fertilisers.

**Incompatible substances and mixtures:** Refer to product label.

**Packaging material:** Plastic containers.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Kaolin (Total dust)	10 mg/m <sup>3</sup>	10 hour TWA	NIOSH REL

### 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:** Wear a facemask if inhalation is likely to occur.

**Hand Protection:** Wear gloves to prevent contact with this mixture.

**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:** The use of protective (impervious) clothing e.g. coveralls is recommended to prevent skin contact with this mixture.

**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:** None known.

**Conditions to Avoid:** Avoid extreme heat temperatures above 150°C or exposure to flames.

**Incompatible Materials:** Not Available.

**Hazardous Decomposition Products:** Sulphur dioxides, nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY:

**Calculated according to GHS.**

**Oral LD<sub>50</sub> (24 h) rat > 3300 mg/kg.**

**Dermal LD<sub>50</sub> (24 h) rat > 9000 mg/kg.**

**Inhalation LC<sub>50</sub> (4 h) rat > 9.10 mg/l.**

**Skin Irritation/Corrosion:** Causes mild skin irritation.

**Eye Damage/Irritation:** Causes serious eye damage.

**Skin Sensitization:** Not available.

**Respiratory Sensitization:** Not available.

**Reproductive cell mutagenicity:** Not available.

**Carcinogenicity:** Not available.

**Reproductive toxicity:** Not available.

**Specific target organ toxicity – single exposure:** Not available.

**Specific target organ toxicity – repeated exposure:** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard:** Not available.

**Chronic Effects:** Not available.

### POTENTIAL ADVERSE EFFECTS:

**Inhalation:** May be harmful if inhaled.

**Skin contact:** Causes mild 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 ingested.

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## 12. ECOLOGICAL INFORMATION

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

### ECOTOXICITY DATA: Buprofezin technical

#### Fish:

LC <sub>50</sub> (96 h)	Carp	0.527 mg/l
LC <sub>50</sub> (96 h)	Rainbow trout	>0.33 mg/l

#### Daphnia:

EC <sub>50</sub> (48 h)	Daphnia	>0.42 mg/l
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#### Algae:

E <sub>b</sub> C <sub>50</sub> (72 h)	<i>Pseudokirchneriella subcapitata</i>	>2.1 mg/l
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#### Birds:

LD <sub>50</sub> (Acute oral)	Bobwhite quail	>2000 mg/kg
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#### Bees:

LD <sub>50</sub> (Oral) (48 h)		>164 mg/bee
(Contact) (72 h)		>200 mg/bee

#### 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.

### ENVIRONMENTAL EFFECTS:

**Persistence and degradability:** DT<sub>50</sub> (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:** 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. The product may be taken to a registered waste disposal site or incineration plant. Where possible, recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

**Container:** Emptied containers retain dust and product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank or where it is used. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Add the rinsing to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Destroy the container by perforating

and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. 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. (not including waste) (**Buprofezin** 500 g/kg)

**Maritime Transport IMDG/IMO:**

Class: 9  
 Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (not including waste) (**Buprofezin** 500 g/kg)

**Marine Pollutant (Y/N): Yes**

**Air transport IATA/ICAO:**

Class: 9  
 Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (not including waste) (**Buprofezin** 500 g/kg)

**Special/Environmental Precautions: None known.**

**Transport in bulk** (according to MARPOL 73/78, Annex II and the IBC code): Not available.

## 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 300, 600 g and 1, 5, 10, 20 & 25 kg plastic drums or water-soluble bags in plastic drums, labelled according to South African regulations and guidelines.

**Additional H-statement (s) (formulants)**

**H302:** Harmful if swallowed.

**H315:** Causes skin irritation.

**H319:** Causes serious eye irritation.

**H332:** Harmful if inhaled.

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**H335:** May cause respiratory irritation.

**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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### **END OF DOCUMENT**

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For detailed information on revisions, contact the Registration holder.