

## TRIVIA 500 WDG

## SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** TRIVIA 500 WDG  
**Other identifier:** Pymetrozine 500 WDG  
**Recommended use:** Insecticide  
**Restrictions on use:** Agriculture

**Supplier:** Villa Crop Protection (Pty) Ltd.  
**Co. Reg. No.:** 1992/002474/07  
 PO Box 10413  
 Aston Manor, 1630, 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:**  
 (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>		
Dermal	Acute Toxicity 5 Skin Irritation 3	H313 H316
Eye	Eye Damage 1	H318
Inhalation	Acute Toxicity 4	H332
Carcinogenicity	Carcinogenicity 2	H351
Reproductive Toxicity	Reproductive Toxicity 2	H361
<b>Environment</b>		
Aquatic chronic	Aquatic chronic 1	H410

**The most important adverse effects:**  
**Physiochemical effects:** None known.  
**Human health effects:**  
 Causes mild skin irritation.  
 Causes serious eye damage.  
 Harmful if inhaled.  
 Suspected of causing cancer.  
 Suspected of damaging fertility or the unborn child.

### Label elements:



**Signal word:** Danger.

### Hazard statements:

H313: May be harmful in contact with skin.  
 H316: Causes mild skin irritation.  
 H318: Causes serious eye damage.  
 H332: Harmful if inhaled.  
 H351: Suspected of causing cancer.  
 H361: Suspected of damaging fertility or the unborn child.  
 H410: Very toxic to aquatic life with long lasting effects.

### Precautionary statements:

P203: Obtain, read and follow all safety instructions before use.  
 P261: Avoid breathing dust or spray.  
 P264+P265: Wash hands thoroughly after handling. Do not touch eyes.  
 P271: Use only outdoors or in a well-ventilated area.  
 P273: Avoid release into the environment.  
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.  
 P302+P332+P317: IF ON SKIN and skin irritation occurs: Get medical help.  
 P304+P340+P317: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.  
 P305+P354+P338+P317: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.  
 P318: IF exposed or concerned, get medical advice.  
 P391: Collect spillage.  
 P405: Store locked up.  
 P501: Dispose of content/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 4

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture.

### Composition:

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Chemical Name	CAS	Conc. (m/m %)	Classification EC 1272/2008
Pymetrozine technical (95% min)	123312-89-0	50 %	Carcinogenicity 2 (H351) Reproductive toxicity 2 (H361) Aquatic Chronic 1 (H410)
Sodium dodecyl benzene sulfonate	25155-30-0	<5 %	Acute Toxicity 4 (H302) Skin Irritation 2 (H315) Eye Damage 1 (H318)

### 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.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. **Seek medical attention.**

**Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Seek medical attention if irritation occurs.**

**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. **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:** Causes mild skin irritation. Causes serious eye damage. Harmful if inhaled.

**Anticipated delayed effects:** Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

**Most important symptoms/effects:** None known.

**Advice to physician:** Treat symptomatically and supportively. No specific antidote known.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Extinguish fires with carbon dioxide, dry powder or alcohol-resistant foam.

**Unsuitable Extinguishing Media:** Water. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible.

**Specific hazards:** During a fire, irritating and possibly toxic 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. 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 dust or spray mist. Ventilate area of spill or leak, especially in contained areas. Avoid contact with eyes and skin.

**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 very toxic to aquatic organisms with long-term adverse effects in the aquatic environment. 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 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 drains or waterways. See section 13 for disposal considerations.

### 7. HANDLING AND STORAGE

**Handling:**

**Precautions for safe handling:** Avoid contact with eyes and skin. Do not inhale dust or mists. Ensure adequate ventilation during handling and use. Do not handle broken

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packages without protective clothing/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 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 again.

### 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/foil containers.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Pymetrozine	0,8 mg/m <sup>3</sup>	8 h (TWA)	OSHA PEL

### 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:** Employee must wear appropriate chemically resistant gloves e.g., nitrile rubber 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:** Employees must wear appropriate protective impervious clothing, 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 eyewash fountain or appropriate alternative within the immediate work area for emergency use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Off-white granules.

**Odour:** Weak indeterminate odour.

**pH (1% aqueous dilution):** 9.1 - 9.5.

**Melting point:** Not available.

**Freezing Point:** Not available.

**Boiling Point:** Not available.

**Flash Point:** Not available.

**Flammability:** non-flammable.

**Upper/lower explosion limits:** Not available.

**Vapour Pressure (mm Hg):** Not available.

**Relative Vapour Density:** Not available.

**Density/Relative density:** 0.48 g/cm<sup>3</sup>

**Solubility:** Water dispersing.

**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 2 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:** Unlikely to occur.

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

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** May decompose at high temperature forming toxic gases.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY:

**Calculated according to GHS**

**Oral LD<sub>50</sub> (24 h)** > 14 000 mg/kg (rat).

**Dermal LD<sub>50</sub> (24 h)** > 3 500 mg/kg (rat).

**Inhalation LC<sub>50</sub> (4 h)** > 2.57 mg/l (rat).

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

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

**Skin Sensitization:** Not classified.

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**Respiratory Sensitization:** Not classified.  
**Reproductive cell mutagenicity:** Not classified.  
**Carcinogenicity:** Suspected of causing cancer.  
**Reproductive toxicity:** Suspected of damaging fertility or the unborn child.  
**Specific target organ toxicity – single exposure:** Not classified.  
**Specific target organ toxicity – repeated exposure:** Not classified.  
**Aspiration hazard:** Not classified.  
**Chronic Effects:** Not available.  
**POTENTIAL ADVERSE EFFECTS:**  
**Inhalation:** Harmful if inhaled.  
**Skin contact:** Due to the inerts, this product can cause mild skin irritation.  
**Eye contact:** Due to the inerts, this product can cause serious damage to eyes.

### 12. ECOLOGICAL INFORMATION

This product is expected to be very toxic to aquatic organisms with long lasting effects.

#### ECOTOXICITY DATA:

##### Pymetrozine.

##### Fish:

LC <sub>50</sub> (96 h)	Rainbow trout, Sheepshead minnows & Common carp	>100 mg/L.
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##### Daphnia:

LC <sub>50</sub> (48 h)		87 mg/L.
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##### Algae:

LC <sub>50</sub> (72 h)	<i>Scenedesmus subspicatus</i>	47.1 mg/L.
LC <sub>50</sub> (120 h)	<i>Selenastrum capricornutum</i>	21.7 mg/L.

##### Birds:

Acute oral LD <sub>50</sub>	Mallard ducks	>2000 mg/kg.
Dietary LC <sub>50</sub> (8 d)	Bobwhite quail	>5200 ppm.

##### Bees:

LD <sub>50</sub> oral		>62.7 µg/bee.
LD <sub>50</sub> contact		>100 µg/bee.

##### Worms:

LC <sub>50</sub> (14 d)	<i>Eisenia fetida</i>	1098 mg/kg soil.
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#### ENVIRONMENTAL EFFECTS:

**Plants:** The basic degradation steps are similar in all investigated crops; pymetrozine is the only relevant compound for residue definition.

**Persistence and degradability:** Soil DT<sub>50</sub> 2-69 d (field, 7 soils, median 14 d), DT<sub>50</sub> 55-288 d (field, 7 soils, median 185 d). Rapidly degraded in slightly acidic or sunlight-exposed surface water; DT<sub>50</sub> in surface water 5.2-6.6 d (lab., darkness, 2 water-sediment systems). Slightly volatile. In air, efficiently removed by direct photolysis and photo chemically induced oxidation.

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**Bio-accumulative Potential:** Extensively and rapidly absorbed (c. 90% in 24 h). Quickly and efficiently eliminated (mainly via excreta) and extensively metabolised in all species tested (rats, farm animals), without accumulation in most major animal food products. Metabolism is via oxidation of the methyl and triazine methylene, and cleavage between the triazine and pyridine rings. The metabolic pathways are similar for all species. Pymetrozine is the relevant residue for assessing the consumer exposure to treated animal food products.  
**Mobility in soil:** In soils, very rapidly and strongly adsorbed: K<sub>f</sub> 3.1-47.7 ml/g o.c. (10 soils, mean 2245 ml/g o.c.); low mobility and low leaching potential.  
**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](http://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 / ORD:**

Class:	9
Packaging group:	III
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Pymetrozine 500 g/kg)

**Maritime Transport IMDG / IMO:**

Class:	9
Packaging group:	III
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Pymetrozine 500 g/kg)

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

**Air Transport IATA / ICAO:**



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Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: ENVIRONMENTALLY  
 HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (Pymetrozine 500 g/kg)  
**Special / Environmental Precautions:** Wedge drums  
 tightly to avoid movement.  
**Transport in bulk:** Refer to MARPOL 73/78, Annex II  
 and the IBC code.

### END OF DOCUMENT

**Compiled:** September 2017  
**Reviewed:** June 2022  
**Revision no.:** (3)  
**Next revision:** June 2027

For detailed information on revisions, contact the  
 Registration holder.

### 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 200, 250, 500 g & 1, 2, 2.5, 5, 10,  
 15, 20, 25, 50 and 100 kg plastic/foil containers/bags and  
 labelled according to the South African regulations and  
 guidelines.

#### Other hazard statements, abbreviations and explanations:

**H302:** Harmful if swallowed.

**H315:** Causes skin irritation.

**IATA:** International Air Transport Association.

**IBC:** International Bulk Chemical.

**ICAO:** International Civil Aviation Organization.

**IMDG:** International Maritime Dangerous Goods

**IMO:** International Maritime Organization.

**LD<sub>50</sub> 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.