



# Safety Data Sheet

according to WHS Regulations

Printing date 12.02.2019

Revision: 12.02.2019

## 1 Identification

**Product Name:** TITAN FLUMIOXAZIN 500 WDG HERBICIDE

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Agricultural herbicide

**Details of Manufacturer or Importer:**

Titan Ag Pty Ltd  
Suite 15 / 16 Princes Street  
Newport NSW 2106

**Phone Number:** 02 9999 6655

**Emergency telephone number:** 02 9999 6655

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



health hazard

Toxic To Reproduction 1B H360D May damage the unborn child.



environment

Aquatic Acute 1                      H400    Very toxic to aquatic life.

Aquatic Chronic 1                  H410    Very toxic to aquatic life with long lasting effects.

**Signal Word** Danger

**Hazard Statements**

H360D May damage the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P201            Obtain special instructions before use.

P202            Do not handle until all safety precautions have been read and understood.

P273            Avoid release to the environment.

P280            Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313    IF exposed or concerned: Get medical advice/attention.

P391            Collect spillage.

P405            Store locked up.

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

## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:**

CAS: 103361-09-7	Flumioxazin (ISO) Toxic To Reproduction 1B, H360D;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	50%
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CAS: 1332-58-7	Kaolin	10 - 30%
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### 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Symptoms Caused by Exposure:**

Skin Contact: May cause skin irritation and redness.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:**

Water fog, alcohol-resistant foam, dry chemical powder or carbon dioxide. Do not use full water jet as it may spread the fire.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include harmful gases.

This product is not flammable, but may burn or decompose in a fire.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Flush spill area with plenty of water. Do not allow contaminated water to enter drains.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.

Pregnant or breastfeeding women must not work with this product.

Do not reuse empty containers.

Food, beverages and tobacco products should not be stored or consumed where this material is in use.

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Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Store in original container. Protect containers from physical damage. Opened containers must be stored upright to prevent leakage.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 1332-58-7 Kaolin**NES TWA: 10 mg/m<sup>3</sup>WES TWA: 10 mg/m<sup>3</sup>

**Engineering Controls:** Ensure adequate ventilation of the working area.

**Respiratory Protection:**

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Protective gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:****Form:** Granulate**Colour:** Beige**Odour:** Odourless**Odour Threshold:** Not determined.**pH-Value:** 5.4 (1% dilution)**Melting point/freezing point:** No information available**Initial Boiling Point/Boiling Range:** No information available**Flash Point:** No information available**Flammability:** Product is not flammable.**Auto-ignition Temperature:** No information available**Decomposition Temperature:** No information available**Explosion Limits:****Lower:** No information available**Upper:** No information available**Vapour Pressure:** No information available**Bulk Density:** 0.51 kg/L

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**Relative Density:** No information available  
**Vapour Density:** No information available  
**Evaporation Rate:** No information available  
**Solubility in Water:** No information available

## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** No further relevant information available.

**Incompatible Materials:** No further relevant information available.

**Hazardous Decomposition Products:** Harmful gases.

## 11 Toxicological Information

**Toxicity:**

### LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:

Oral	LD <sub>50</sub>	>5000 mg/kg (rat)
Dermal	LD <sub>50</sub>	>2000 mg/kg (rat)
Inhalation	LC <sub>50</sub> /4 h	>0.969 mg/l (rat)

### CAS: 1332-58-7 Kaolin

Oral	LD <sub>50</sub>	>5,000 mg/kg (rat)
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### Acute Health Effects

**Inhalation:** No information available

**Skin:** May cause skin irritation and redness.

**Eye:** May cause eye irritation.

**Ingestion:** May cause gastrointestinal irritation.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** May damage fertility or the unborn child.

### Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

### Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:** No information available

### Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for flumioxazin for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 3 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and

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Veterinary Chemicals', 2019).

### 12 Ecological Information

**Ecotoxicity:** LC50 14 day: >5620 mg/kg/day (Bobwhite quail)**Aquatic toxicity:**

Very Toxic to aquatic life with long lasting effects.

LC<sub>50</sub>/96 h | 2.3 mg/l (rainbow trout)**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

### 14 Transport Information

**UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

### 15 Regulatory Information

**Australian Inventory of Chemical Substances:**

CAS: 1332-58-7 | Kaolin

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 7

### 16 Other Information

**Date of Preparation or Last Revision:** 12.02.2019**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Toxic To Reproduction 1B: Reproductive toxicity – Category 1B

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

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**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016"

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