



SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Apparent Territory 500 WG Herbicide

Other Names: Flumioxazin. Group 14 Herbicide. N-phenylphthalimide herbicide.
Use: A knock-down agricultural herbicide.
Company: AIRR Apparent Pty Ltd.
Address: 15/16 Princes Street, Newport NSW 2106.
Phone Number: 03 5820 8400
Email: enquiries@apparentag.com.au
Emergency Contact: 0437 303 689

SECTION 2

HAZARDS IDENTIFICATION

**Classified as hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code*.**

* Not subjected to the ADG code when transported in Australia by Road or Rail in packages 500 kg (L) or less; or in IBC's (refer to SP AU01). However, if transported by Air or Sea, this provision does not apply. Then the product is classed as a Dangerous Good (Class 9 Environmentally Hazardous) by IATA and IMDG respectively. See Section 14 of this SDS for details.

Globally Harmonised System (GHS) classification of the substance/mixture:

Reproductive toxicity: Hazard Category 1.
Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard: Category 1.

Signal Word: DANGER.

Hazard statements:

H360 May damage fertility or the unborn child.
H411 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

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/face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice.
P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

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

Pictogram:



SECTION 3**COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:**

CHEMICAL	CAS NUMBER	PROPORTION
Flumioxazin	103361-09-7	500 g/kg
Kaolin	1332-58-7	10-30%
Other ingredients determined not to be hazardous		Balance

SECTION 4**FIRST AID MEASURES****FIRST AID**

Ingestion: If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. If swallowed do NOT induce vomiting. Wash mouth out with water. Give water to drink.

Eye contact: Brush granules gently away. Hold eyes open and flood with clean water. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. If irritation persists, seek medical advice.

Skin contact: Brush granules gently off clothing and skin. Remove contaminated clothing. Wash skin thoroughly with soap and water. If skin is irritated, seek medical advice.

Inhalation: Remove to fresh air and observe until recovered. Not likely to be an inhalation hazard.

Advice to Doctor: Treat symptomatically.

SECTION 5**FIRE FIGHTING MEASURES**

Specific Hazard: Not readily combustible. Generally considered a low risk.

Extinguishing media: Extinguish fire using carbon dioxide, alcohol resistant foam or dry agent. If waterspray is used, contain all runoff. Contain all runoff. If area is heavily exposed to fire, and if conditions permit, let fire burn itself out as water may increase the area contaminated.

Hazards from combustion products: Not readily combustible, however the material can burn and emit toxic fumes when incinerated. Will not polymerise.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or vapours generated. Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Emergency procedures: In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls over normal clothing, a washable hat, elbow length chemical resistant gloves and face shield. In the case of spillage, stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable material into labelled containers for use as per the label, recycling or dispose as waste as per the requirements of Local or State Waste Management Authorities. Keep out animals and unprotected persons.

Material and methods for containment and cleanup procedures: To clean spill area, tools and equipment, wash with a solution of soap, water and acetic acid/vinegar. Follow this with a neutralisation step of washing the area with a bleach or caustic soda ash solution. Finally, wash with a strong soap and water solution. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Thoroughly launder protective clothing before storage or re-use.

SECTION 7**HANDLING AND STORAGE**

Precautions for Safe Handling: Poisonous if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. Open sachets only as needed. When opening the container, preparing the spray and using the prepared spray wear cotton overalls over normal clothing,

SECTION 7 HANDLING AND STORAGE (Continued)

buttoned to the neck and wrist and a washable hat and elbow length chemical resistant gloves and face shield. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

Conditions for Safe Storage: Not classified as a Dangerous Good. Store in the closed, original container in a well-ventilated, locked area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

No exposure limits have been assigned by Safe Work Australia to this product, however the following guideline applies to one of the components of this product:

Atmospheric Contaminant	Exposure Standard (TWA)	STEL (mg/m ³)
Koalin	10 mg/m ³	-

TWA = Time-weight Average STEL = Short Term Exposure Limit

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Use in ventilated areas. Keep containers closed when not in use. No special engineering controls are required.

Personal Protective Equipment (PPE):

General: When opening the container, preparing the spray and using the prepared spray wear cotton overalls over normal clothing, buttoned to the neck and wrist and a washable hat and elbow length chemical resistant gloves and face shield.

Personal Hygiene: Poisonous if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. Open sachets only as needed. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing. Shower at the end of the workday.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Beige granule.
Odour:	Odourless.
Boiling point:	Not applicable - solid.
Freezing point:	Not applicable - solid.
Solubility in Water:	Disperses in water.
Bulk Density:	~ 0.51 kg/L
pH:	No data available.
Flammability:	Not flammable.
Poisons Schedule:	Schedule 6 (S6) poison.
Formulation Type:	Water Dispersible Granule (WG).

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

Conditions to avoid: Keep away from strong oxidizing agents.

Incompatible materials: Strong oxidizing agent such as chlorates, nitrates, peroxides etc.

Hazardous decomposition products: if involved in a fire the product can emit toxic fumes. Will not polymerise.

Hazardous reactions: None known.

SECTION 11**TOXICOLOGICAL INFORMATION**

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

Potential Health Effects:**ACUTE EFFECTS**

Swallowed: Low acute toxicity. Acute Oral LD₅₀ > 5000 mg/kg (rats).

Eye: This product may be irritating to the eyes due to the granular nature of the product.

Skin: Acute dermal LD₅₀ > 2,000 mg/kg. Mild skin irritant.

Inhaled: Acute inhalation LC₅₀ > 0.096 mg/L/4 hours (Maximum attainable concentration).

Chronic effects

Repeated exposure to flumioxazin technical in animals has produced anaemia and other blood formation changes, organ weight changes and changes in blood chemistry. Flumioxazin did not produce cancer in lifetime feeding studies in laboratory animals. Birth defects were produced in the offspring of female rats exposed to flumioxazin technical at doses greater than 30 mg/kg/bw/day. No developmental effects were observed in rabbits. Reproductive effects were observed in rats exposed to flumioxazin technical at greater than 100 ppm in the diet.

SECTION 12**ECOLOGICAL INFORMATION**

Environmental Toxicology: No data is available on this product. The active ingredient, flumioxazin, has low to moderate toxicity to birds dietary LC₅₀ > 5620 mg/kg (Bobwhite quail) and chronic 21 day NOEL 34.3 mg/kg bw/day (Mallard duck). Moderate to high toxicity to fish with 96 hour LC₅₀ > 2.3 mg/L and NOEC = 0.0077 mg/L (Rainbow trout). Acute 48 hour EC₅₀ 5.9 mg/L and chronic 21 day NOEC 0.057 mg/L (*Daphnia magna*). Very toxic to algae 72 hour EC₅₀ 0.0012 mg/L (algae) and aquatic plants acute 7 day EC₅₀ 0.00035 mg/L (*Lemna gibba*). Low toxicity to honey bees. Moderate toxicity to earthworms 14 day LC₅₀ >491 mg/kg.

Environmental Fate: In moist field soils, flumioxazin was degraded with a DT₅₀ of 15.6 – 19.5 days, DT₉₀ range 51.8 - 64.8 days. Aqueous photolysis DT₅₀ 1 day (pH sensitive: DT₅₀ at pH 3 - 5 days; at pH 9 14 - 23 minutes - all at 25 °C). Water sediment DT₅₀ 0.4 day, water phase only DT₅₀ 2 days. Low leaching potential - GUS leaching potential 1.31.

SECTION 13**DISPOSAL CONSIDERATIONS**

Spills and Disposal: Persons involved in cleanup require adequate skin protection - see Section 8. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

Disposal of empty containers: Store in the closed, original container in a cool well-ventilated area, away from children, animals, food, feedstuffs, seeds. Do not store for prolonged periods in direct sunlight. Store apart from fertilisers, insecticides and fungicides. Do not dispose of undiluted chemicals on site. Break, crush or puncture sachets and containers and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

SECTION 14**TRANSPORT INFORMATION**

Road & Rail Transport: This product is exempt from classification as a Dangerous Good in packs less than 500 kg (L) or less; or in IBC's under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments this product is a class 9, UN 3077.

Marine and Air Transport: Apparent Territory 500 WG Herbicide is classified as a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:- UN 3077, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 50% Flumioxazin). Hazchem code 2Z. Hazard Identification Number (HIN) 90. Australian Standards Initial Emergency Response Guide No. 47.

SECTION 15**REGULATORY INFORMATION**

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a Schedule 6 poison.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 88880.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia.

This product is not classified as a Dangerous Good according to the ADG Code for packs less than 500 kg (L) or less; or in IBC's (SP AU01) (7th Ed).

This product is classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

Requirements concerning special training:

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

SECTION 16**OTHER INFORMATION**

Issue Date: 25 November 2021. Valid for 5 years till 25 November 2026. (First Issue).

Key to abbreviations and acronyms used in this SDS:

ADG Code: Australian Dangerous Goods Code (for the transport of Dangerous Goods by Road and Rail).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

HCIS: Hazardous Chemicals Information System.

Lacrimation: The production, secretion, and shedding of tears.

Mutagen: An agent capable of producing a mutation.

PPE: Personal protective equipment.

Teratogen: An agent capable of causing abnormalities in a developing foetus.

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

References

1. "Hazardous Chemicals Information System". Safe Work Australia HCIS website. (2020).
2. "Classifying Hazardous Substances" Safe Work Australia. August 2018.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2009.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. End SDS.