



SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Apparent Tralkoxydim 400 WG Herbicide

Other Names: Tralkoxydim, a cyclohexanedione herbicide, Group 1 Herbicide.
Use: A granular pre-plant selective 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.**

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

Acute Toxicity – Oral: Category 4.
Carcinogenicity – Hazard Category 2.
Hazardous to the Aquatic Environment – Long Term (Chronic) Hazard – Hazard Category 2.

Signal Word: WARNING.

Hazard statements:

H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H411 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.
P264 Wash hands, arms and face thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention:
P330 Rinse mouth.
P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

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

SECTION 2 HAZARDS IDENTIFICATION (Continued)

Pictograms:

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

CHEMICAL	CAS NUMBER	PROPORTION
Tralkoxydim	87820-88-0	400 g/kg
Other ingredients determined not to be hazardous		Balance

SECTION 4 FIRST AID MEASURES**FIRST AID**

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

Eye contact: Gently brush granules away and rinse with water until chemical is removed. If irritation occurs and persists, seek medical advice.

Skin contact: Gently brush granules away. Wash skin with soap and water. If irritation occurs and persists, seek medical advice. Irritation of the skin is not expected.

Inhalation: Remove to fresh air and observe until recovered. If effects persist, seek medical advice.

Advice to Doctor: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Combustible solid.

Extinguishing media: Extinguish fire using carbon dioxide, foam or dry agent. If not available, use waterfog or fine water spray but ensure all runoff is contained. Contain all runoff.

Hazards from combustion products: Product will decompose when burnt and will emit toxic fumes. Fire-fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or smoke. If this product is scattered there is a possibility that it could form flammable or explosive dust clouds in the air.

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. Stop all fire water from entering drains or water bodies.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures: In case of spillage, contain and absorb spilled material with absorbent material such as clay, sand or cat litter and dispose of waste as indicated. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, face shield or goggles and gloves. If there is a significant chance of that dust is likely to build up in the cleanup area, the use of a respirator is recommended.

In the case of spillage, stop leak if safe to do so, and contain spill. Prevent spillage entering drains or watercourses. Contain and absorb spilled material with absorbent material such as sand, clay, cat litter or material such as vermiculite. Collect recoverable product for use as labelled on the product. Vacuum, shovel or pump contaminated spilled material into an approved container and dispose of waste as per the requirements of Local or State Waste Management Authorities. Keep out animals and unprotected persons.

SECTION 6 ACCIDENTAL RELEASE MEASURES (Continued)

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.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: No smoking, eating or drinking should be allowed where material is used or stored. Harmful if swallowed. Will irritate the eyes. If the product in eyes, wash it out immediately with water. When preparing the spray wear face shield or goggles. Wash hands after use. After each day's use wash face shield or goggles.

Conditions for Safe Storage: Store in the closed, original container in a well ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight. Not classified as a Dangerous Good. This product is a Schedule 5 Poison (S5) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines:**

No exposure guidelines have been established for this product by Safe Work Australia. However Safe Work Australia has established the following exposure standard for talc, an ingredient in the formulation.

Chemical	Exposure Standard (TWA) ^a	STEL ^b
Talc	2.5 mg/m ³	-
a = TWA - Time-weighted Average		b = STEL - Short Term Exposure Standard

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Use in ventilated areas adequate to keep exposure below the TWA, generally natural ventilation is adequate. Keep containers closed when not in use.

Personal Protective Equipment (PPE):

General: When preparing the spray wear face shield or goggles. Wash hands after use. After each day's use wash face shield or goggles.

Personal Hygiene: Harmful if swallowed. Will irritate the eyes. If the product in eyes, wash it out immediately with water. Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale granules.
Melting point:	99 - 104°C (Tralkoxydim).
Freezing point:	Not applicable.
Specific Gravity:	1.6.
Solubility in Water:	Disperses in water.
pH:	No data available.
Flammability:	Combustible.
Corrosive hazard:	Not corrosive.
Auto ignition temperature (°C):	550 - 600°C.
Flammability Limits (%):	Not established.
Poisons Schedule:	This product is a Schedule 5 (S5) 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: Do not store for prolonged periods in direct sunlight. Tralkoxydim (as technical) has exhibited exothermic decomposition at approximately 100°C. Avoid heating the product to high temperatures.

Incompatible materials: This product will decompose when burnt, emitting toxic fumes.

Hazardous decomposition products: If involved in fire it will emit oxides of carbon, oxides of nitrogen and possibly oxides of sulphur.

Hazardous reactions: Hazardous polymerisation will not occur.

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: Harmful if swallowed. Acute oral LD₅₀ Tralkoxydim 1258 mg/kg (male rat); 934 mg/kg (female rat). Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.

Eye: This product may cause eye irritation. Symptoms may include stinging and reddening of eyes and watering. If exposure is brief, symptoms should disappear once exposure has ceased.

Skin: Prolonged contact may cause irritation. Acute dermal LD₅₀ > 2000 mg/kg. Not a skin sensitiser.

Inhaled: LC₅₀ > 3.5 mg/L/4hrs. May cause irritation of the respiratory tract.

Long Term Exposure:

Chronic toxicity: Based on available data, Tralkoxydim is not carcinogenic. In rats, there was evidence of oncogenicity in the form of benign Leydig-cell tumours in males and uterine adenocarcinomas in females. In female hamsters, benign liver and ovarian tumours were noted. There was no treatment-related increase in the number of tumours in male hamsters. Tralkoxydim was not genotoxic and induced no signs of neurotoxicity. Tralkoxydim was teratogenic at a level that resulted in severe maternal toxicity in both rats and rabbits. The main target of toxicity for all species evaluated was the liver.

Safe Work Australia has classified tralkoxydim in the occupational environment as a suspected human carcinogen - Category 2 substance. This means that there is not sufficient data to classify tralkoxydim as a Category 1 substance, but there is limited evidence of carcinogenicity in animal studies.

Reproductive effects: No effects have been observed in the absence of maternal toxicity.

Mutagenic effects: Data indicates that Tralkoxydim is not mutagenic or has low mutagenic potential.

SECTION 12**ECOLOGICAL INFORMATION**

Environmental Toxicology: This product is biodegradable. Tralkoxydim has moderate toxicity to aquatic organisms and low toxicity to birds and bees.

Species	Toxicity	Comment
Rainbow trout:	LC ₅₀ > 7.2 mg/L (96 hour)	Moderate toxicity.
Bluegill sunfish:	LC ₅₀ > 6.1 mg/L (96 hour)	Moderate toxicity.
Daphnia:	EC ₅₀ > 175 mg/L (48 hour)	Low toxicity.
Algae:	EC ₅₀ > 5.1 mg/L (120 hour)	Moderate toxicity.
Mallard duck:	LD ₅₀ > 3020 mg/kg	Very low toxicity.
Bees:	LD ₅₀ 54 µg/bee	Non toxic.

SECTION 12 ECOLOGICAL INFORMATION (Continued)

Environmental Toxicology: This product is biodegradable. Tralkoxydim has moderate toxicity to aquatic.

Environmental Fate: Tralkoxydim has low soil persistence. The half-life in soil is 2 - 13 days. Moderately hazardous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used container.

SECTION 13 DISPOSAL CONSIDERATIONS

Spills and Disposal: Keep material out of streams and sewers. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities. In rural areas contact ChemClear <http://www.chemclear.com.au> for help with collection of unwanted rural chemicals.

Disposal of empty containers: Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Puncture and bury empty bags in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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 not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail. Not classified as a Dangerous Good for marine or air transport.

This product is a Schedule 5 Poison (S5) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

SECTION 15 REGULATORY INFORMATION

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a Schedule 5 poison.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 65110.

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 (7th Ed). *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: 26 November 2021. Valid for 5 years till 26 November 2026. (Five year update).

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.

Cyanosis: A bluish or purplish discoloration (of skin) due to deficient oxygenation of the blood.

Dyspnea: Difficult or laboured respiration.

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

HCIS: Hazardous Chemical Information System.

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

Lavage: A general term referring to cleaning or rinsing.

Mutagen: An agent capable of producing a mutation.

Myotoxic: Having or being a toxic effect on muscle.

SECTION 16 OTHER INFORMATION (Continued)

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: Australian government statutory body established in 2008 to develop national policy relating to Worker Health & Safety and workers' compensation.

References

1. "Hazardous Chemicals Information System". Safe Work Australia HCIS website. (2021).
2. "Classifying Hazardous Substances" Safe Work Australia. August 2018.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2017 (7th Ed).

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.