

SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Apparent Turbo-Charged MCPA Herbicide**

Other Names: Terbutryn + MCPA, Groups C & I Herbicide.
Use: A selective, post-emergence agricultural herbicide.
Company: AIRR Apparent Pty Ltd
Address: 15/16 Princes Street, Newport NSW 2106.
ACN/ABN: 153 573 641.
Email: enquiries@apparentag.com.au
Emergency Contact: 0411 227 338

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:

Acute Toxicity – Oral. Hazard Category 4.
Acute Toxicity – Dermal. Hazard Category 4.
Acute Toxicity – Inhalation. Hazard Category 4.
Hazardous to the Aquatic Environment – Long Term (Chronic) Hazard: Hazard Category 1.

Signal Word: WARNING.

Hazard Statements:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H410 Very toxic to aquatic life with long-lasting effects.

Precautionary statements:

Prevention:

P261 Avoid breathing mist, vapour or spray.
P264 Wash contacted areas thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Cal a POISON CENTRE or doctor is you feel unwell.
P321 Specific treatment see Safety Directions on the product label.
P330 Rinse mouth.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

SECTION 2 HAZARDS IDENTIFICATION (Continued)**Disposal:**

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

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

| CHEMICAL | CAS NUMBER | PROPORTION |
|--|-------------------|-------------------|
| Terbutryn | 886-50-0 | 275 g/L |
| MCPA present as the potassium salt | 5221-16-9 | 160 g/L |
| Propylene glycol | 57-55-6 | 0 - 10% |
| Other ingredients determined not to be hazardous | | balance |

SECTION 4 FIRST AID MEASURES**FIRST AID**

- Ingestion:** If swallowed DO NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre. Phone Australia 13 11 26. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
- Eye contact:** If in eyes, hold eyes open and flood with clean water until chemical is removed. 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:** Wash affected skin with soap and water. Remove contaminated clothing. If skin irritation persists, re-wash area and seek medical advice. Launder contaminated clothing before re-use.
- Inhalation:** Remove to fresh air and observe until recovered. If effects persist, seek medical advice. Not expected to be a source of over-exposure.

Advice to Doctor: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Generally considered a low risk. Not flammable.

Extinguishing media: Not flammable. Extinguish fire using media suited to burning material. If containers are ruptured contain all runoff.

Hazards from combustion products: Product is unlikely to decompose until heated to dryness. On further heating will emit toxic fumes. Low risk of explosion if involved in a fire.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind residents. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or smoke. Do not breathe smoke or vapours generated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures: In the event of a major spill, prevent spillage from entering drains or water courses. For spills, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and goggles. 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

SECTION 6 ACCIDENTAL RELEASE MEASURES (Continued)

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. Launder protective clothing before storage or re-use.

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. Attacks eyes. Will irritate the skin. Avoid contact with skin. Repeated exposure may cause allergic disorders. When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and goggles. If product in eyes, wash it out immediately with water. 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, goggles and contaminated clothing.

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. 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: Exposure guidelines have not been established for this product by Safe Work Australia.

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Keep containers closed when not in use. No special engineering controls are required, however make sure that the work environment remains clean and that vapours are minimised.

Personal Protective Equipment (PPE):

When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and goggles. If product in eyes, wash it out immediately with water. 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, goggles and contaminated clothing.

Personal Hygiene: 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: | Opaque yellow liquid. |
| Odour: | Faint odour. |
| Boiling point: | No data available. |
| Freezing point: | No data available. |
| Specific Gravity: | Approximately 1.1. |
| Solubility in Water: | Suspends in water. |
| pH: | 8 - 10. |
| Flammability: | Non flammable, non combustible liquid. |
| Flashpoint (°C): | Not flammable. |
| Poisons Schedule: | This product is a Schedule 5 (S5) poison. |
| Formulation type: | Suspension Concentrate (SC). |

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.

Incompatible materials: Strong acids, strong bases and strong oxidising agents. Reaction of the concentrate or spray mix with acids will precipitate solid MCPA and significantly deactivate the product and cause blockages in spray equipment.

Hazardous decomposition products: Product is likely to decompose after heating to dryness and continued strong heating and will emit toxic fumes.

Hazardous reactions: 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. May also cause irritation to the mouth, throat and stomach. Ingestion of the concentrate in relatively large amounts can cause liver, heart and kidney damage, unconsciousness and death.

Eye: The concentrate will irritate the eyes.

Skin: Will irritate the skin. Prolonged contact may result in absorption of MCPA in harmful amounts.

Inhaled: The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. However, care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur.

Long Term Exposure:

Chronic toxicity: Repeated exposure may cause allergic disorders. Liver and kidney damage has been noted in laboratory animal that have been fed excessive doses of MCPA.

Mutagenicity: The weight of evidence indicates that terbutryn and/or MCPA does not present a mutagenic risk.

Carcinogenicity: The weight of the evidence indicates that terbutryn and/or MCPA is not carcinogenic.

SECTION 12**ECOLOGICAL INFORMATION**

Environmental Toxicology: Terbutryn do not appear to pose any threat to birds. MCPA is moderately toxic to birds. Aquatic toxicity:

| Test | Terbutryn | MCPA |
|---|-----------|--------------|
| LC ₅₀ (96 hr) for rainbow trout | 1.14 mg/L | 232 mg/L |
| LC ₅₀ (96 hr) for bluegill sunfish | 4 mg/L | > 135 mg/L |
| EC ₅₀ (48 hr) for daphnia magna | 2.66 mg/L | > 190 mg/L |
| EC ₅₀ (72hr) for algae | - | 0.0024 mg/L. |

Environmental Fate: Average field half-life of MCPA is less than 7 days. The half-life of terbutryn in soil is 14-28 days. Terbutryn is readily adsorbed in soils with high organic or clay content. Depending on the application rate, the residual activity of terbutryn in soil is 3 to 10 weeks. It is slightly mobile to immobile in soils. Data indicate that it will not leach in agricultural soils. However, its major breakdown product, hydroxy terbutryn, is more mobile and persistent and has potential to leach to groundwater. In water, terbutryn is not volatile. It will adsorb to sediment and suspended particulate matter. Do not contaminate dams, waterways or sewers with this product.

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. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®). Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

Disposal of empty containers: Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture 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. (See special provision AU01). For bulk shipments this product is a class 9, UN 3082. It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

Marine and Air Transport: This product 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 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III. Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Terbutryn). Hazchem code: ●3Z. 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 5 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 69330.

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) in packs less than 500 kg (L) or less; or in IBC's.

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: 19 April 2021. Valid for 5 years till 19 April 2026. (5 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.

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

HCIS: Hazardous Chemical Information System.

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

SECTION 16 OTHER INFORMATION (Continued)

| | |
|----------------------|---|
| Lavage: | A general term referring to cleaning or rinsing. |
| Mutagen: | An agent capable of producing a mutation. |
| OCS: | Office of Chemical Safety. |
| Pneumonitis: | A general term that refers to inflammation of lung tissue. |
| 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. (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.