



# SAFETY DATA SHEET

## SECTION 1

## IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Apparent Check Mate 500 Herbicide

**Other Names:** Triallate, a thiocarbamate chemical herbicide, Group 23 Herbicide.  
**Use:** A liquid pre-emergent wild oats agricultural herbicide.  
**Company:** AIRR Apparent Pty Ltd  
**Address:** 15/16 Princes Street, Newport NSW 2106.  
**Email:** [enquiries@apparentag.com.au](mailto:enquiries@apparentag.com.au)  
**Phone Number:** 03 5820 8400  
**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\*.  
Combustible Liquid (C1).**

\* 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:**

Aspiration Hazard - Category 1.  
Acute Toxicity - Oral - Category 4.  
Skin Corrosion/Irritation - Category 2.  
Eye Damage/Irritation – Category 2B.  
Sensitization – Skin: Category 1, 1A, 1B.  
Specific Target Organ Toxicity (Repeated Exposure): Category 2.  
Hazardous to the Aquatic Environment- Acute Hazard: Category 1.  
Hazardous to the Aquatic Environment- Long-Term Hazard: Category 4.

**Signal Word:** DANGER.

### **Hazard statements:**

H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness and dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

### **Precautionary Statements:**

#### *Prevention:*

P260 Do not breathe mist, vapours or spray.  
P261 Avoid breathing mist, vapours or spray.  
P264 Wash hands, arms and face thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**SECTION 2 HAZARDS IDENTIFICATION (Continued)**

**Response:**

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 Specific treatment see Safety Directions on product label.
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash before reuse.
- P391 Collect spillage.

**Storage:**

- P403 + P232 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

**Disposal:**

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

**Pictograms:**



**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**Ingredients:**

CHEMICAL	CAS NUMBER	PROPORTION
Triallate	2303-17-5	500 g/L
Liquid hydrocarbons	various	30 – 60 % w/w
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 on 13 11 26. Wash mouth with water and then drink plenty of water. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

**Eye contact:** If in eyes, hold eyelids open and wash with copious amounts of water until chemical is removed. If irritation occurs and persists, seek medical advice.

**Skin contact:** If skin contact occurs remove contaminated clothing and wash skin and hair with soap and water. If irritation occurs and persists, seek medical advice. Launder contaminated clothing before re-use. If irritation occurs and persists seek medical advice.

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

**Advice to Doctor:** Treat symptomatically. This product also contains aromatic solvents which may produce a chemical pneumonitis; therefore vomiting is not recommended, and lavage requires intubation. Activated charcoal and cathartics will assist gastrointestinal tract evacuation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

**SECTION 5****FIRE FIGHTING MEASURES**

**Specific Hazard:** Combustible liquid (C1). Flash point > 62°C – < 150°C.

**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 including carbon monoxide. Heating may cause expansion or decomposition leading to violent rupture of containers. Fire-fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or smoke.

**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, remove all ignition sources. 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 cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and face shield or goggles and half facepiece respirator.

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. Launder protective clothing before storage or re-use.

This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent from entering drains, waterways or sewers. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

**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 inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Do not inhale vapour or spray mist. Avoid contact with eyes and skin. When opening the container and mixing and loading spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves, goggles and half facepiece respirator. When using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash contaminated clothing, gloves, goggles and respirator and if rubber wash with detergent and warm water.

**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 classified as a C1 (Combustible Liquid) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to state regulations for storage and transport requirements. This product is a Schedule 5 Poison (S5) and must be stored, transported and sold in accordance with the relevant Health Department regulations. Not classified as a Dangerous Good by the ADG in containers less than 500 kg (L) or less; or in IBC's for transport by Road and Rail..

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

No exposure guidelines have been established for this product by Safe Work Australia.

**Biological Limit Values:**

No biological limit allocated.

**Engineering controls:**

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

**Personal Protective Equipment (PPE):**

General: When opening the container and mixing and loading spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves, goggles and half facepiece respirator. When using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash contaminated clothing, gloves, goggles and respirator and if rubber wash with detergent and warm water.

Personal Hygiene: Harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Do not inhale vapour or spray mist. Avoid contact with eyes and skin. 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**

<b>Appearance:</b>	Amber to brown coloured liquid.
<b>Melting point:</b>	Not available.
<b>Freezing point:</b>	Not available.
<b>Specific Gravity:</b>	1.05.
<b>Solubility in Water:</b>	Emulsifies in water.
<b>pH:</b>	No data available.
<b>Flammability:</b>	Combustible liquid.
<b>Corrosive hazard:</b>	Not corrosive.
<b>Flash point (°C):</b>	> 62°C – < 150°C.
<b>Flammability Limits (%):</b>	Not established.
<b>Poisons Schedule:</b>	This product is a schedule 5 (S5) poison.

**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. Avoid heating the product to high temperatures.

**Incompatible materials:** Keep away from strong oxidising agents.

**Hazardous decomposition products:** If involved in fire it will emit oxides sulphur and other toxic and noxious gases.

**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. If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage. Tri-allylate LD<sub>50</sub> = 800 mg/kg (rat).

Eye: The concentrate will cause irritation of the eyes and possible damage in severe cases.

**SECTION 11****TOXICOLOGICAL INFORMATION (Continued)**

**Skin:** Will irritate the skin. Acute dermal LD<sub>50</sub> > 2000 mg/kg. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis. May cause sensitisation by prolonged skin contact.

**Inhaled:** High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects. Acute inhalation LC<sub>50</sub> > 5.3 mg/L/ (Tri-allate).

**Long Term Exposure:**

**Chronic toxicity:** Although triallate is a carbamate it does not inhibit cholinesterase activity. Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of triallate. Evidence from animal studies indicates that repeated or prolonged exposure to triallate can result in neurological effects.

**Reproductive effects:** Evidence suggests that triallate can cause reproductive effects at high doses.

**Carcinogenicity:** Data indicates no carcinogenic effects.

**Mutagenic effects:** The data suggests triallate is either non-mutagenic or very weakly mutagenic.

**Organ toxicity:** Changes have been observed in the cellular processes of the brain, liver and spleen of pigs given triallate. Studies in other species indicate the thymus, kidneys and reproductive organs are potential target organs.

**SECTION 12****ECOLOGICAL INFORMATION**

**Environmental Toxicology:** Tri-allate is toxic to fish and other marine organisms. Over 7 weeks marked bioaccumulation occurred in bluegill sunfish, but over a two week depuration period, tri-allate was rapidly and nearly completely eliminated.

Species	Toxicity	Comment
Rainbow trout	LC <sub>50</sub> = 1.2 mg/L (96 hour)	Moderate- high toxicity.
Daphnia	EC <sub>50</sub> = 0.43 mg/L (48 hour)	High toxicity.
Algae	EC <sub>50</sub> = 0.12 mg/L (96 hour)	High toxicity.
Bobwhite quail	LD <sub>50</sub> > 2251 mg/kg	Very low toxicity.

**Environmental Fate:**

Under prolonged and extremely dry conditions, this product may persist for several months. The half-life in soil is 82 days. Tri-allate absorbs well to soil and has low solubility in water which indicates low movement in soils. However, in situations of high soil moisture conditions and/or low organic matter levels, tri-allate may become desorbed and more mobile. DO NOT contaminate streams, rivers or waterways with the chemical or used container.

**SECTION 13****DISPOSAL CONSIDERATIONS**

**Spills and Disposal:** Persons involved in cleanup require adequate skin protection - see Section 8. 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 below or in accordance to the Australian Standard 2507- Storage and Handling of Pesticides. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. 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 3,000 kg or litres under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments this product is a class 9, UN 3082.

**Marine and Air Transport:** Apparent Check Mate 500 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 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Triallate). Hazchem code ●3Z. Hazard Identification Number (HIN) 90.

**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 67079

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

This product is exempt from classification as a Dangerous Good in packs less than 3,000 kg or litres under the Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> 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: 9 November 2021. Valid for 5 years till 9 November 2026 (5 year revision).

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.
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.
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 MSDS 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 MSDS 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. End SDS.*