SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Apparent Clopyralid 300 Herbicide**

Other Names:	Clopyralid, Group 4 herbicide. Pyridinecarboxylic acid derivative.
Use:	A liquid broadleaf 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:
Eye Damage/Irritation – Category 1.

Signal Word: DANGER.

Hazard statements:
H318 Causes serious eye damage.

Precautionary Statements:
Prevention:
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

Pictogram:

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

CHEMICAL	*CAS NUMBER*	*PROPORTION*
CLOPYRALID present as the triisopropanolamine salt	1702-17-6	300 g/L
Other ingredients (including water) determined not to be hazardous		Balance

SECTION 4 FIRST AID MEASURES

FIRST AID

Ingestion: Seek medical advice and show this label or container.

Eye contact: Hold eyes open and flood with copious quantities of clean water for several minutes. Eyelids to be held open. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur and persist, seek medical advice.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. Contaminated clothing should be laundered before reuse.

Inhalation: Remove from exposure and observe until recovered. If effects persist, seek medical advice.

Advice to Doctor: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: If involved in a fire, the product will not burn. Not combustible.

Extinguishing media: Choose extinguishing media to suit the burning material. If waterfog or fine water spray is used ensure all runoff is contained. Contain all runoff.

Hazards from combustion products: This product is likely to decompose only after heating to dryness, followed by further strong heating. The dried product will decompose when burnt and will emit toxic fumes (eg hydrogen chloride and/or phosgene).

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.

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 elbow-length PVC gloves and face shield. Keep out animals and unprotected persons. In the case of spillage, stop leak if safe to do so, and contain spill. Absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as per the requirements of Local or State Waste Management Authorities. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways or drains. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning.

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: Keep out of reach of children. May irritate the eyes and skin. Avoid contact with eyes and skin. **DO NOT** inhale the spray mist. When preparing the spray, wear elbow-length PVC 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: Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. DO NOT store near feedstuffs, fertilisers or seed. Not classified as a Dangerous Good.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:
No exposure guideline has been established for this product by Safe Work Australia.

Biological Limit Values:
No biological limit allocated.

Engineering controls:
Natural ventilation is sufficient when handling concentrate and preparing spray solution. Keep containers closed when not in use.

Personal Protective Equipment (PPE):
General: When preparing the spray, wear elbow-length PVC 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.

Personal Hygiene: May irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale the spray mist. 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:	Clear to dark greenish coloured liquid.
Odour:	No odour.
Boiling point:	No data but expected to be approximately 100-105°C.
Freezing point:	No data but expected to be approximately 0°C.
Specific Gravity:	1.16 g/L.
Solubility in Water:	Soluble in water.
pH:	6 - 8.
Vapour pressure:	No data.
Flammability:	Not flammable.
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. This product is unlikely to spontaneously decompose.

Conditions to avoid: Do not store for prolonged periods in direct sunlight. Avoid strong oxidising agents.

Incompatible materials: Keep away from strong acids, strong bases, strong oxidising agents.

Hazardous decomposition products: This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke; nitrogen, and under some circumstances, oxides of nitrogen.

Hazardous reactions: Not known to polymerise.

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: The rat LD_{50} for a similar formulation is > 5000 mg/kg. Low acute oral toxicity.

Eye: May cause slight eye irritation. Corneal injury is unlikely. Dust may irritate eyes. Mist may cause eye irritation.

SECTION 11 TOXICOLOGICAL INFORMATION (Continued)

Skin: May cause sensitisation by skin contact. Not a skin irritant. Prolonged skin contact is unlikely to result in absorption of harmful amounts, the rat dermal LD_{50} for a similar formulation is > 2000 mg/kg.

Inhaled: No adverse effects are anticipated from single exposure to vapour. Mist may cause irritation of upper respiratory tract (nose and throat). Avoid breathing spray mist. Inhalation LC_{50} (rat) >0.38 mg/L/4 hr for clopyralid.

Long Term Exposure:

CHRONIC EFFECTS: Data indicates no reproductive or mutagenic effects. The weight of the evidence is that clopyralid is not carcinogenic.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicology: No data is available on this product. The following is data for the active ingredient, clopyralid. LC_{50} (96 hr) for rainbow trout is 103.5 mg/L. LC_{50} (96 hr) for bluegill sunfish is 125.4 mg/L and EC_{50} (48hr) is 225 mg/L. Birds: slightly toxic to birds on an acute basis LD_{50} is 1465 mg/kg, but practically noon-toxic on a dietary basis LC_{50} > 5000 mg/kg. Bees: Not toxic to bees LD_{50} >100 µg/bee. Toxic to aquatic organisms - algae LC_{50} 6.9 mg/L.

Environmental Fate: Half life in soil is typically 8 - 66 days. Rapid degradation in soil prevents significant downward movement under normal conditions. Based completely on information for clopyralid acid, Clopyralid is weakly sorbed (Mean Koc ~5 mL/g) indicating potential for mobility. Degradation is retarded under cold conditions or very dry soils. Clopyralid degrades slowly in water/sediment systems ($t_{½}$ = 143-182 days). Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

SECTION 13 DISPOSAL CONSIDERATIONS

Spills and Disposal: Persons involved in cleanup require complete skin protection - see Section 8. 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 Clopyralid 300 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 Clopyralid). 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 with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 65243.
This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. Xi irritating. This product is not classified as a Dangerous Good according to the ADG Code for packs less than 3000 litres (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: 10 November 2021. Valid for 5 years till 10 November 2026 (Revising to GHS).

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.
HSIS:	Hazardous Substances 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.
NOHSC:	National Occupational Health and Safety Commission.
LD_{50}:	Median Lethal Dose A statistically derived single dose of a substance that can be expected to cause death in 50% of dosed animals.
OCS:	Office of Chemical Safety.
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. “Search Hazardous Substances”. Safe Work Australia website. (2016).
2. “Approved Criteria for Classifying Hazardous Substances” 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
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