

SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Apparent Azoxystrobin Extra Fungicide**

Other Names: Azoxystrobin + Cyproconazole, Groups 3 & 11 Fungicide.
Use: A liquid broad spectrum agricultural fungicide.
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 3.
Skin corrosion/irritation: Hazard Category 2.
Eye damage/irritation: Hazard Category 2A.
Acute Toxicity – Inhalation: Hazard Category 4.
Reproductive toxicity: Hazard Category 1.
Specific Target Organ Toxicity (Repeated Exposure): Hazard Category 2.
Hazardous to the Aquatic Environment – Long term (Chronic) Hazard: Category 1.

Signal Word: WARNING.

Hazard statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H360 May damage the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 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.
P260 Do not breathe mist, vapour 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 + P312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice.
P321	Specific treatment see Safety Directions on product label.
P330	Rinse mouth.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

Storage:

Disposal

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

Pictograms:



SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

<i>CHEMICAL</i>	<i>CAS NUMBER</i>	<i>PROPORTION</i>
Azoxystrobin	131860-33-8	200 g/L
Cyproconazole	94361-06-5	80 g/L
Alcohols, C16-18, ethoxylated	68439-49-6	20-30%
Other ingredients determined not to be hazardous		Balance

SECTION 4 FIRST AID MEASURES

FIRST AID

Ingestion: If swallowed do NOT induce vomiting. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. Rinse mouth and give water to drink. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Eye contact: Immediately hold eyes open and flood gently 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: Immediately remove contaminated clothing. Wash skin with soap and water thoroughly to remove chemical. If skin is irritated, seek medical advice. Contaminated clothing should be laundered before reuse.

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

Advice to Doctor: No specific antidote. Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Flammable – flash point > 100°C. Product contains combustible organic components, fire will produce dense black smoke. Toxic and irritant vapours may be released upon combustion or thermal decomposition.

Extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water jet. Contain all runoff.

SECTION 5 FIRE FIGHTING MEASURES (Continued)

Hazards from combustion products: Product will decompose when burnt and will emit toxic and noxious fumes. Firefighters 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.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures: Wear cotton overalls, buttoned to the neck and wrist (or equivalent clothing), a washable hat, and 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 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: Harmful if swallowed. Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing spray wear cotton overalls, buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length PVC gloves and goggles. Wash hands after use. 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. Ideally, the product should be stored below 30°C.

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:

Use in ventilated areas. Keep containers closed when not in use.

Personal Protective Equipment (PPE):

General: When opening the container and preparing spray wear cotton overalls, buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length PVC gloves and goggles. After each day's use, wash gloves, goggles and contaminated clothing.

Personal Hygiene: Harmful if swallowed. Will irritate the eyes. Avoid contact with eyes. 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:	Light yellow to yellow coloured liquid.
Odour:	Sweetish.
Boiling point:	No data.
Freezing point:	No data.
Specific Gravity:	Approx. 1.1 g/mL
Solubility in Water:	Emulsifies in water.
pH (1% solution):	5 – 9.
Flammability:	Combustible liquid Class 1).
Corrosive hazard:	Not corrosive.
Flashpoint (°C):	> 100°C.
Poisons Schedule:	This product is a Schedule 5 (S5) poison.
Formulation Type:	Suspension Concentrate.

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 oxidising agents and strong alkalis.

Hazardous decomposition products: When involved in a fire will emit toxic and noxious fumes.

Hazardous reactions: No particular reactions to avoid.

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. LD₅₀ > 500 - < 2000 mg/kg female rate (similar product).

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: May cause mild irritation of the skin. LD₅₀ > 5000 mg/kg (similar product). May cause slight irritation.

Inhaled: Harmful by inhalation. LC₅₀ (rat) (4hr) > 2.58 mg/L (similar product).

Long Term Exposure:

Chronic toxicity: Azoxystrobin technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic neurotoxic or reproductive effects. Cyproconazole has been extensively tested on laboratory mammals and in test-tube systems. No evidence was obtained of mutagenic, carcinogenic or neurotoxic effects. Maternal and foetal toxicity were observed at high dose levels in studies on rats. No adverse effects in humans are expected at levels below the occupational exposure limit and when the product is handled and used according to the label.

SECTION 12**ECOLOGICAL INFORMATION**

Environmental Toxicology: No data is available on this product. Information is based on information for the active ingredients, Azoxystrobin and Cyproconazole.

SECTION 12**ECOLOGICAL INFORMATION**

Environmental Toxicology: Azoxystrobin is moderately toxic to fish with $LC_{50} = 1.76$ mg/L for rainbow trout (96 hr) and $LC_{50} = 4.2$ mg/L for Carp (96 hr). highly toxic to certain aquatic invertebrates with 48-hour $LC_{50} = 0.83$ mg/L for *daphnia magna*. Moderately toxic to algae with $EC_{50} = 0.71$ to 2.2 for green algae (72 hr). Low toxicity to earthworms with $LC_{50} > 1000$ mg/kg and bees with acute oral and contact $LD_{50} > 200$ µg/bee.

Cyproconazole is toxic to birds with a $LD_{50} = 94$ mg/kg for Norther Bobwhite quail. Cyproconazole is moderately toxic to fish with $LC_{50} = 19$ mg/L for rainbow trout (96 hr). Moderatelyly toxic to certain aquatic invertebrates with 48-hour $LC_{50} > 22$ mg/L for *daphnia magna*. Moderately toxic to algae with $EC_{50} = 0.059$ for *Lemna gibba* (7 day). Moderately toxic to earthworms with $LC_{50} 168$ mg/kg (14 day) and low toxicity to honey bees with acute oral and Contact $LD_{50} > 100$ µg/bee.

Environmental Fate:

Azoxystrobin is stable in water and not persistent in soil. It has low to high mobility in soil and is absorbed by organic molecules. It has a medium potential for bioaccumulation. Azoxystrobin is not readily biodegradable Azoxystrobin is stable in water (Degradation half-life: 214 d) Azoxystrobin is not persistent in soil (DT_{50} : 80 days)

Cyproconazole not readily biodegradable Cyproconazole is not persistent in water (Degradation half-life: 5 days (20 °C)) Cyproconazole is not persistent in soil (DT_{50} : 100 - 124 d) Cyproconazole has low to medium mobility in soil. Cyproconazole does not bioaccumulate.

SECTION 13**DISPOSAL CONSIDERATIONS**

Spills and Disposal: Persons involved in cleanup require adequate skin protection - see Section 8. 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.

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. (See special provision AU01).

Marine and Air Transport: Apparent Azoxystrobin Extra Fungicide 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 Azoxystrobin and cyproconazole). 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 under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 88916.

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

SECTION 15 REGULATORY INFORMATION (Continued)

This product is not classified as a Dangerous Good according to the ADG Code for packs less than 3000 litres (SP AU01) (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: 19 February 2021. Valid for 5 years till 19 February 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).

Ataxia: Inability to control the coordinate movements of the muscles.

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

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

Mutagenic: Capable of inducing a genetic mutation in an organism.

LD₅₀: Median Lethal Dose A statistically derived single dose of a substance that can be expected to cause death in 50% of dosed animals.

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.