

SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Apparent Ant-Assassin Ant Sand Insecticide

Other Names: A synthetic pyrethroid pesticide, Group 3A Insecticide. Bifenthrin
Use: A granular insecticide for use as an ant insecticide.
Company: AIRR Apparent Pty Ltd.
Address: 15/16 Princes Street, Newport NSW 2106.
ACN/ABN: 153 573 641.
Phone: 03 5820 8400
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:

Sensitization – Skin: Hazard Category 1B.
Carcinogenicity: Hazard Category 2.
Specific Target Organ Toxicity (Repeated Exposure): Hazard Category 1.
Hazardous to the Aquatic Environment – Short Term (Acute) Hazard: Hazard Category 1.

Signal Word: DANGER.

Hazard Statements:

H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H372 Causes damage to the nervous system 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.
P261 Avoid breathing dust.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment see Safety Directions on product label.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Storage:

P405 Store locked up.

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
Bifenthrin	82657-04-3	2 g/kg
Other ingredients determined not to be hazardous		Balance

SECTION 4 FIRST AID MEASURES**FIRST AID**

- Ingestion:** Wash mouth with water. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. Give water to drink.
- Eye contact:** Brush granules gently away. Hold eyes open and flood with clean water. 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:** Brush granules gently off clothing and skin. Remove contaminated clothing. Wash skin thoroughly with soap and water. If skin is irritated, seek medical advice.
- Inhalation:** Remove from exposure and observe until recovered. If effects persist, seek medical advice.

Advice to Doctor: Bifenthrin is a pyrethroid insecticide and about 2% of the formulation. In cases of skin contact, it has been reported that topical applications of Vitamin E acetate were found to have very high therapeutic value, eliminating almost 100% of the skin pain associated with synthetic pyrethroids.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: The product is not combustible.

Extinguishing media: Not combustible. Use extinguishing media suited to burning materials.

Hazards from combustion products: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

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

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures: Extinguish all sources of ignition. Wear cotton overalls and chemical resistant gloves. If material is leaking from a container, stop the leak only if this can be done safely. Prevent spillage entering drains or watercourses. Large spills should be dyked or covered to prevent dispersal. Collect recoverable product for use as labelled on the product. Vacuum, shovel or pump spilled material into an approved container and dispose of as listed below. Keep out unprotected persons and animals.

Material and methods for containment and cleanup procedures: After spills, wash area with water preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Launder protective clothing before storage or re-use.

SECTION 7**HANDLING AND STORAGE**

Precautions for Safe Handling: Wash hands after use. Keep away from domestic pets, especially dogs. If dogs eat the granules, contact your veterinary surgeon immediately. Cover fishponds, aquariums before application. Ensure no granules enter the 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. Not classified as a Dangerous Good.

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

No Safe Work Australia exposure standard has been established for bifenthrin, or this product.

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: Although no specific personal protective equipment is required it is good occupational practice to wear suitable personal protective equipment such as overalls and chemical resistant gloves. Avoid contact with eyes and skin. Wash hands after use.

Personal Hygiene: Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Beige coloured granules (sand).
Odour:	Very mild musty-like odour.
Boiling point:	No data.
Freezing point:	No data.
Specific Gravity:	No data.
Solubility in Water:	Emulsifies in water.
pH:	No data available.
Flammability:	Not flammable.
Corrosive hazard:	Not corrosive.
Flashpoint (°C):	Not flammable.
Poisons Schedule:	This product is not a Scheduled poison.
Formulation type:	Granular.

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 alkaline materials.

Incompatible materials: Avoid strong acids, bases and oxidizing agents.

Hazardous decomposition products: This product is likely to decompose only after being directly subjected to fire. Toxic and noxious fumes will then be released.

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. This formulation contains aromatic hydrocarbons.

SECTION 11 TOXICOLOGICAL INFORMATION (Continued)**Potential Health Effects:****ACUTE EFFECTS**

Swallowed: Calculated toxicity is low with LD₅₀ > 5000 mg/kg.

Eye: Non-irritating to the eye. Excessive exposure to granules may cause irritation to the eyes. This product contains a granular material that may cause mechanical irritation to the eyes.

Skin: Non-irritating to the skin. Acute Dermal LD₅₀ (rabbit) > 2000 mg/kg.

Inhaled: As this product is a granule it is unlikely to be an inhalation hazard.

Chronic: No data available on this formulation. In studies with laboratory animals, Bifenthrin Technical (the active ingredient in this product) did not cause teratogenicity or reproductive toxicity. Tremors were associated with repeated exposure of dogs, rats, rabbits, and mice to bifenthrin. The overall results from a battery of genotoxicity studies indicate that bifenthrin is not considered to be genotoxic. Ames test results were negative.

SECTION 12**ECOLOGICAL INFORMATION**

Environmental Toxicology: No data is available on this product. Bifenthrin is highly toxic to fish and aquatic arthropods with LC₅₀ values ranging from 0.0038 µg/L to 17.8 µg/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on molluscs at its limit of water solubility. Bifenthrin is only slightly toxic to both waterfowl and upland game birds (LC₅₀ values range from 1800 mg/kg to > 2,150 mg/kg).

Before treatment, remove animals and pets from the areas to be treated. Cover or remove any open food and water containers. Keep away from domestic pets, especially dogs. If dogs eat the granules, contact your veterinary surgeon immediately. Use with caution around pets - ensure product is well dispersed i.e. swept in between pavers, cracks, and crevices and dispersed into soil and/or lawn. Cover or remove fishponds, aquariums etc before application. DO NOT apply Apparent Ant-Assassin Granular Ant Killer within 2 metres of a fishpond or water containing fish or aquatic species.

Environmental Fate: No data is available on this product. The active ingredient, bifenthrin (0.2%), degrades at a moderate rate in soils (t_{1/2} = 50 to 205 days), and more rapidly on the surface of bare soils (t_{1/2} = 7 to 62 days). Bifenthrin is tightly bound in most soils and an extremely low water solubility. Bifenthrin is highly toxic to aquatic organisms.

DO NOT contaminate streams, rivers or waterways with this product or the used containers.

SECTION 13**DISPOSAL CONSIDERATIONS**

Spills and Disposal: Persons involved in cleanup require adequate 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: Store in the closed, original container in a cool, dry place out of reach of children and pets. DO NOT store in direct sunlight. Dispose of empty containers by wrapping in paper, placing in a plastic bag and putting in garbage bin.

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 in containers 500 kg (L) or less; or in IBC's. Bulk shipments should use UN 3082, as per Marine and Air transport. (See special provision AU01).

SECTION 14 TRANSPORT INFORMATIONB (Continued)

Marine and Air Transport: Apparent Ant-Assassin Granular Ant Killer is 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 3077, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains Bifenthrin). Hazchem 2Z. 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 not a Scheduled poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 82922.

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 in containers 500 kg (L) or less; or in IBC's (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: 23 September 2021. Valid for 5 years till 23 September 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.

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

HCIS: Hazardous Chemical Information System.

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

Mutagen: An agent capable of producing a mutation.

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: 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.