

Safety data sheet



Sundew Safety data sheet
Date / Revised: 15.01.13
Product: ANTagonist PRO 80 SC Residual Ant Insecticide

Version: 1.0

1. SUBSTANCE / PREPARATION AND COMPANY IDENTIFICATION

Product name: ANTagonist® PRO 80 SC Residual Ant Insecticide
Other names: None
Product code: SUN095
Chemical group: Pyrethroid
Recommended use: Insecticide spray for exterior control of ants
Formulation: Suspension concentrate (SC)
Supplier: Sundew Solutions Pty Ltd ABN 37 135 400 261

Address: Sundew Solutions – Unit 11, 4 Dunlop Court, Bayswater VIC 3153, Australia
Telephone: Sundew 1800 786 339
Facsimile: Sundew (03) 9729 7223
Website: www.sundewsolutions.com.au
Contact: Sundew Technical Manager 1800 786 339

Poisons Information Centre: Telephone 13 11 26

2. HAZARDS IDENTIFICATION

Hazard Classification: 6.1D, 6.4A, 6.9B, 9.1A, 9.2C, 9.3B, 9.4A

Hazards: Harmful if swallowed.
Causes serious eye irritation.
Harmful if inhaled.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.
Harmful to the soil environment.
Toxic to terrestrial vertebrates.
Very toxic to terrestrial invertebrates.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration (%w/w)
Bifenthrin	82657-04-3	7.5 – 8.0
1,2-benzisothiazol-3(2H)-one	2634-33-5	0.03
Propylene Glycol	57-55-6	<10.0
Balance – ingredients of proprietary nature	Proprietary	To 100%

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4. FIRST AID MEASURES

Consult the National Poisons Information Centre 13 11 26 or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

Swallowed

If swallowed, do not induce vomiting. If conscious and alert, rinse mouth and drink 1-2 cupfuls of water. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Skin Contact

Immediately wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes and other contaminated leather articles such as belts and watchbands. Seek medical attention if irritation occurs.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do and continue rinsing. Do NOT allow victim to rub eyes or keep eyes closed. Obtain urgent medical attention.

Inhalation

Move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Obtain medical attention immediately.

First Aid facilities

Provide eye baths and safety showers close to areas where exposure may occur.

Medical Attention

Treat symptomatically and supportively, monitoring the development of hypersensitivity reactions with respiratory distress. Gastric lavage may be indicated if ingested. No known antidote. Do not confuse with cholinesterase poisoning. Paraesthesia from skin contact, while less likely with this pyrethroid can be partially alleviated by the application of a vitamin E containing moisturising cream. In all cases consult the National Poisons Centre for the most up to date treatment information.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media

Water fog, fine spray, alcohol resistant foam, dry chemical powder or carbon dioxide. Do not use water stream directly as this may spread fire or give a violent steam eruption. Cool fire exposed container with water spray.

Hazards from combustion products

Decomposition from combustion will emit acrid smoke and toxic fumes containing carbon oxides, hydrogen chloride (Cl⁻) and hydrogen fluoride (F⁻).

Precautions for fire fighters and special protective equipment

Full protective clothing with chemical goggles, butyl or neoprene gloves and self-contained breathing apparatus

Hazchem Code

3Z

Flash Point

>100°C

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment vessel or bunded area. Prevent any vapours or dust from building up in confined areas. Ensure that drain valves are closed at all times. Clean up minor spills immediately.

Methods and materials for containment for a major spill

Eliminate sources of ignition. Warn occupants of downwind areas of possible hazards. Keep the public away from the area. Prevent product from entering sewers, watercourses, or low-lying areas. Shut off the source of the spill if safe to do so. Advise relevant authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Take measures to minimise the effect on the groundwater. If possible recover product using a pump paying attention to flammability hazards or absorbent material. Collect and seal in properly labelled containers for disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. In all instances due consideration must be given for First Aid Measures (Section 4), PPE requirements (Section 8), Stability and Reactivity (Section 10) for this material.

7. HANDLING AND STORAGE

Precautions for safe handling

Keep out of reach of children. This product is combustible. Avoid sources of ignition including smoking. Keep containers closed. Use only in well-ventilated areas. When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before reuse.

Conditions for safe storage

Store in a cool, dry place away from direct sunlight. Keep away from heat and ignition sources. Store in original containers. Protect from physical damage to prevent accidental release. Do not store with food, feedstuffs, fertilizers and seeds.

Incompatible materials

None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

No exposure standards for bifenthrin has been established by Safe Work Australia.

Engineering Controls:

The use of local exhaust ventilation is recommended to control process emissions near the source. Sufficient ventilation should be provided to keep the solvent in air concentrations below any relevant exposure limit. Provide mechanical ventilation of confined spaces. Explosion proof electrical equipment recommended but not required based on the flashpoint of this material.

Hygiene Controls:

Facilities storing or utilising this material should be equipped with an eyewash facility, safety shower and facility for washing hands/face after work.

Personal Protective Equipment

Respiratory Protection: When handling this material it is recommended to use an approved respirator or half face mask complying with OHS and other relevant standards

Eye protection: Always use safety glasses or a chemical goggles when handling this product. Contact lenses may absorb and concentrate irritants, glasses are recommended.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear of safety boots when handling this product. It is recommended that chemical resistant gloves (eg nitrile, neoprene) be worn when handling this product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white to white opaque semi viscous liquid
Boiling Point (°C):	100
Melting Point(°C):	Not Applicable
Flash Point(°C):	>100
Lower Explosive Limit, LEL (%):	No data available
Upper Explosive Limit, UEL (%):	No data available
SG/ Density, 20°C (g/mL):	1.00 – 1.05
Vapour Pressure, 20°C (kPa):	No data available
Alkalinity/ acidity as pH:	4.5 – 6.0
Solubility in water:	Forms an emulsion

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult Sundew Solutions Pty Ltd.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure. Separates at elevated temperatures but recombines at ambient temperature

Hazardous decomposition products

Decomposition from combustion will emit acid smoke and toxic fumes containing carbon oxides, hydrogen chloride and hydrogen fluoride.

Specific Materials to Avoid

Strong acids, alkalis, oxidising agents, reducing agents and heat.

Hazardous Polymerisation

Not known to occur.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion: Moderate toxicity if swallowed. Symptoms include burning sensations in the mouth, headache, dizziness, drowsiness, diarrhoea, nausea, vomiting, listlessness, stomach pain, muscular twitching or arms or legs.

Swallowing large quantities can result in confusion, convulsions, coma, seizures and death.. Contact a doctor immediately.

Eye Contact: The liquid is irritating to the eyes and may result in corneal injury. Avoid eye contact.

Skin Contact: Mildly irritating. Contact with the skin, especially the face, may result in initial stinging or burning sensations (parasthesia) followed by numbing which may persist for up to 24 hours in highly susceptible persons. Avoid skin contact.

Inhalation: The vapour/mist is discomforting to the upper respiratory tract and lungs. Acute effects from inhalation of high vapour concentrations may cause effects similar to that of ingestion.

Chronic Effects

Prolonged or repeated exposure may result in central nervous system effects such as tremors, uncoordination and disorientation.

Prolonged or repeated skin contact may result in defatting of the skin (dry skin) as a result of the solvent present. Persons with pre-existing conditions are advised to limit or avoid product contact.

Other Health Effects Information

Not Available.

Toxicological Information

Oral LD₅₀: 43 mg/kg (mouse), bifenthrin active ingredient; 551 mg/kg (product, estimated) Dermal LD₅₀: No data available Inhalation LC₅₀: 0.15 mg/L (rat), bifenthrin active ingredient; 1.9 mg/L (product, estimated)

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12. ECOLOGICAL INFORMATION

Mobility: This product is not readily soluble with water limiting its mobility in the environment. This product is likely to have low mobility in the environment and low leaching potential

Environmental Toxicity:

Fish toxicity LC₅₀: 0.00015 mg/L; bifenthrin active ingredient

Crustacean EC₅₀: 0.00007 mg/L; bifenthrin active ingredient

Honeybee: 0.0146 µg/bee; bifenthrin active ingredient

The active ingredient, 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 with LC₅₀ values range from 1800 mg/kg to > 2,150 mg/kg. Do not contaminate sewers, drains, dams, creeks or any other waterways with product or the used container.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of product only by using according to label or using an approved waste disposal contractor. If this material as supplied becomes a waste care should be taken to ensure compliance with national and local authorities. It is the responsibility of the waste generator to determine the toxicity and physical properties of the waste generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Do not dispose of via municipal sewers, drains, natural streams or rivers

Packaging Disposal

Triple rinse container and add rinsate to the spray tank. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Incinerate via approved incinerators or crush and bury in an approved landfill. Ensure that empty packaging is managed in accordance with the requirements of Local and State Waste Management Authorities.

14. TRANSPORT INFORMATION

UN number:	Not applicable (road/rail)
Proper shipping name:	Not applicable (road/rail)
Class and Subsidiary Risk:	Not applicable (road/rail)
Packing Group:	Not applicable (road/rail)
EPG:	Not applicable (road/rail)
Hazchem code:	Not applicable (road/rail)

Marine and Air Transport: ANTagonist PRO 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 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 8% Bifenthrin).

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15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

Australian Pesticides and Veterinary Medicines Authority Approval Number: 67858/56972

16. OTHER INFORMATION

Trademark information: ANTagonist® PRO is a Registered Trademark of Sundew Solutions Pty Ltd.

Preparation information: NIL.

Data sources: Sundew Solutions Pty Ltd product safety data and published data

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.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Sundew Solutions.

END OF MSDS