

SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Apparent Myagi 250 Insecticide**

Other Names: A synthetic pyrethroid pesticide, Group 3A Insecticide.
Use: A liquid insecticide for control of certain insect pests in crops.
Company: Apparent Pty Ltd.
Address: Suite G.08, 762 Toorak Road, Glen Iris, Vic. 3146.
PO Box 3092, Cotham PO, Kew, Vic 3101.
ACN/ABN: 143 724 136.
Telephone Number: 03 9822 1321.
Email: enquiries@apparentag.com.au
Emergency Contact: 0411 227 338.

SECTION 2

HAZARDS IDENTIFICATION

**Classified as hazardous according to criteria of Safe Work Australia.
Classified as a Dangerous Good according to the ADG Code.**

Global Harmonization System (GHS) classification of the substance/mix:

Acute Toxicity – Oral: Hazard Category 4.
Acute Toxicity – Inhalation: Hazard Category 1.
Sensitization –Respiratory: Hazard Category 1, 1A, 1B.
Carcinogenicity: Hazard Category 2.
Sensitization –Skin: Hazard Category 1, 1A, 1B.
Specific Target Organ Toxicity (Repeated Exposure): Hazard Category 2.
Hazardous to the Aquatic Environment – Long-Term Hazard: Hazard Category 1.

Signal Word: DANGER.

Hazard statements:

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.
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, 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.
P281 Use personal protective equipment as required.
P284 Wear respiratory protection.

SECTION 2 HAZARDS IDENTIFICATION (Continued)**Response:**

P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if feel unwell.
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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention:
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see Safety Directions on the product label).
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P391	Collect Spillage.

Storage:

P403 + P233	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.
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Pictograms:**SECTION 3****COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:**

CHEMICAL	CAS NUMBER	PROPORTION
Lambda-cyhalothrin	91465-08-6	250 g/L
Monomer	9016-87-9	1 – 10%
Benzisothiazolin-3-one	2634-33-5	< 1%
Other ingredients (including water) determined not to be hazardous		Balance

SECTION 4**FIRST AID MEASURES****FIRST AID**

Ingestion:	If swallowed do NOT induce vomiting. Wash mouth with water. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. Give plenty of water to drink.
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:	Remove contaminated clothing. Wash skin with soap and water to remove chemical – do not scrub skin. Facial skin contact may cause temporary facial numbness. If skin is irritated, seek medical advice.
Inhalation:	Remove to fresh air and observe until recovered. If irritation or symptoms persist more than about 30 minutes, seek medical advice.

Advice to Doctor: No specific antidote. Treat symptomatically. Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. In cases of skin contact, application of Vitamin E cream has been found to have very high therapeutic value.

SECTION 5**FIRE FIGHTING MEASURES**

Specific Hazard: Generally considered a low risk due to the water content (~50%), but once the water has evaporated the product is combustible and contains a small amount of solvent. Flash point > 103°C.

Extinguishing media: Combustible liquid (C1). Extinguish fire using foam blanket, carbon dioxide or dry agent. If not available, use waterfog or fine water spray but ensure all runoff is contained.

Hazards from combustion products: This product is likely to decompose only after heating to dryness, followed by further strong heating. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. This product is harmful by inhalation, fire decomposition products from this product will 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 to 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 buttoned to the neck and wrist, elbow-length PVC gloves and face shield. In the case of spillage, contain and absorb spilled material with absorbent material such as sand, clay, cat litter or material such as vermiculite and dispose of waste as the requirements of Local or State Waste Management Authorities. Wear prescribed protective clothing and equipment. Keep out animals and unprotected persons.

Material and methods for containment and cleanup procedures: After spills, wash area preventing runoff from entering drains. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities. If a significant quantity of material enters drains, advise emergency services.

SECTION 7**HANDLING AND STORAGE**

Precautions for Safe Handling: Harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves, and face shield. If product on skin, immediately wash area with soap and water. Wash hands after use. 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. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers. Do not store for prolonged periods in direct sunlight. Not classified as a Dangerous Good. This product is a Schedule 6 Poison (S6) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

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 adequate to keep exposure below the TWA. Keep containers closed when not in use.

Personal Protective Equipment (PPE):

General: When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves, and face shield. If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use, wash gloves, face-shield and contaminated clothing.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

Personal Hygiene: Harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Facial skin contact may cause temporary facial numbness. 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

Appearance:	Beige to Tan coloured liquid.
Odour:	Slight odour.
Boiling point:	No data.
Freezing point:	No data.
Specific Gravity:	No data.
Solubility in Water:	Emulsifies in water.
pH:	No data available.
Flammability:	Combustible liquid.
Corrosive hazard:	Not corrosive.
Flashpoint (°C):	> 103°C.
Poisons Schedule:	This product is a Schedule 6 (S6) 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.

Conditions to avoid: Do not store for prolonged periods in direct sunlight.

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

Hazardous decomposition products: This product is likely to decompose only after heating to dryness, followed by further strong heating. Toxic and noxious fumes will 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.

Possible symptoms of exposure to the concentrate include: nausea, vomiting and abdominal pains.

Potential Health Effects:**ACUTE EFFECTS**

Swallowed: Toxicity is high with LD₅₀ approximately = 200 mg/kg.

Eye: This product will irritate the eyes. Avoid eye contact.

Skin: This product will irritate the skin and is sensitising. Contact with the skin, especially the face, may result in initial stinging, burning or tingling sensations. The effects are transient and generally disappear in one to two days. Topical application of vitamin E cream is effective in reducing discomfort.

Inhaled: Inhalation of mists or sprays may produce transient respiratory irritation. LC₅₀ (rat) 3.12 mg/L/4hr (similar product).

Long Term Exposure: The principal toxic effects noted in chronic studies were decreased body weight gain and decreased food consumption. In two teratology studies, no maternal toxicity was observed at doses of 10 mg/kg/day in both rats and rabbits. It is unlikely that lambda-cyhalothrin would cause chronic effects in humans under normal conditions.

SECTION 11 TOXICOLOGICAL INFORMATION (Continued)

Carcinogenicity: Animal testing did not show any carcinogenic effects. **Mutagenicity:** Animal testing did not show any mutagenic effects.

Teratogenicity: Did not show teratogenic effects in animal experiments. **Reproductive toxicity:** Experiments have shown reproductive toxicity effects on laboratory animals.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicology: No data is available on this product. The following is data for the active ingredient, lambda-cyhalothrin. Toxic to fish. LC₅₀ (96 hr) for rainbow trout is 0.00036 mg/L. LC₅₀ (96 hr) for bluegill sunfish is 0.00021 mg/L. LC₅₀ (48 hr) for daphnia is 0.00036 mg/L. Birds: Not toxic to birds. LD₅₀ for mallard ducks is >3,950 mg/kg. Lambda-cyhalothrin it does not accumulate in the eggs or tissues of birds. Highly toxic to bees both by direct contact or by ingestion.

Environmental Fate: Lambda-cyhalothrin is moderately persistent in the soil environment with reported field half-lives range from 4 to 12 weeks. Its field half-life is probably close to 30 days in most soils. Lambda-cyhalothrin has extremely low water solubility and is tightly bound to soil, it is therefore not expected to be prevalent in surface waters. Bioconcentration is possible in aquatic species, but bioaccumulation is not likely. A bioconcentration factor of 858 has been reported in fish, but concentration was confined to non-edible tissues and rapid depuration was observed.

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. Dispose of waste 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. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. 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 classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail, International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA). The following Dangerous Goods Classification applies:-

UN 3352, Proper Shipping Name PYRETHROID PESTICIDES, LIQUID, TOXIC. Class 6.1 (Toxic), Packing Group III, Hazchem 2X. Hazard Identification Number (HIN) 66. Australian Standards Initial Emergency Response Guide No. 34.

SECTION 15 REGULATORY INFORMATION

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP) this product is a Schedule 6 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 81257.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. T+: Toxic. Xn: Harmful.

SECTION 15 REGULATORY INFORMATION (Continued)

This product is classified as a Dangerous Good according to the ADG Code (7th Ed), the 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: 14 June 2018. Valid for 5 years till 14 June 2023. (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).

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.

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: 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". HCIS. Safe Work Australia website. (2018).
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.