

SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Apparent Abamectin 18 Miticide/Insecticide

Other Names: Use: Company: Address: Email: Phone Number: Emergency Contact: Chloride channel activator, Group 6 Insecticide. A liquid agricultural insecticide and miticide. AIRR Apparent Pty Ltd 15/16 Princes Street, Newport NSW 2106. <u>enquiries@apparentag.com.au</u> 03 5820 8400 0437 303 689

SECTION 2

HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of Safe Work Australia. Classified as a Dangerous Good according to the ADG Code. Combustible Liquid (C1).

Globally Harmonised System (GHS) classification of the substance/mixture:

Flammable Liquids – Hazard Category 4. Acute Toxicity – Oral: Hazard Category 4. Skin Corrosion/Irritation: Hazard Category 2. Eye Damage/Irritation: Hazard Category 2A. Acute Toxicity – Inhalation: Hazard Category 3. Specific Target Organ Toxicity (Single Exposure): Hazard Category 3. Reproductive Toxicity: Hazard Category 1. Hazardous to the aquatic environment – Long term (Chronic) hazard: Hazard Category 1.

Signal Word: DANGER.

Hazard statements:

- H227 Combustible liquid.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H320 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H360 May damage the unborn child.
- 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.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking.
- P261 Avoid breathing 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.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.

SECTION 2 HAZARDS IDENTIFICATION (Continued)

Response:				
P301 + P31	2	IF SWALLOWED: Call a POISON	CENTER or doctor/physic	ian if feel unwell.
P302 + P35	2	IF ON SKIN: Wash with plenty of s	oap and water.	
P304 + P34	0	IF INHALED: Remove victim to free	sh air and keep at rest in a	a position
		comfortable for breathing.		
P305 + P351 + P338		IF IN EYES: Rinse cautiously with		Remove contact
		lenses, if present and easy to do. C		
P308 + P31	3	IF exposed or concerned: Get med		
P312		Call a POISON CENTER or doctor		ell.
P321		Specific treatment see Safety Direct		
P332 + P31	-	If skin irritation occurs: Get medica		
P337 + P31	-	If eye irritation persists: Get medica		
P362 + P36		Take off contaminated clothing and		
P370 + P37	8	In case of fire: Use carbon dioxide,	, foam or dry agent for exti	nction.
P391		Collect spillage.		
Storage:				
P403 + P23	3 Store	in a well-ventilated place. Keep cor	tainer tightly closed	
P405		locked up.	italiler lightly closed.	
1 400	0.010			
Disposal:				
P501	Dispo	se of contents/container in accorda	nce with national regulatio	ns.
Pictograms:				
SECTION 3	3	COMPOSITION/INFOR	MATION ON INGRE	DIENTS
Ingredients:				
CHEMICAL			CAS NUMBER	PROPORTION
Abamectin			71751-41-2	18 g/L
Methyl pyrroli	done		872-50-4	350 g/L
		nined not to be hazardous		Balance
SECTION 4	k - 1	FIRST AI	D MEASURES	
FIRST AID				
Ingestion:		ved do NOT induce vomiting. Wash		
	poisoning	g occurs, contact a Doctor or Poisor	ns Information Centre. Pho	one 131 126.
Eye contact:		tely hold eyes open and flood gent		
		es. Ensure irrigation under eyelids	, , ,	
	remove of	contact lenses unless trained. If irrita	ation persists, seek medica	al advice.
Skin contact:		contaminated clothing. Wash skin		
		itated, seek medical advice. Launde		
Inhalation:		to fresh air and observe until recover		oms persists more
	than aho	ut 30 minutes, seek medical advice.		

Advice to Doctor: Treat symptomatically. No specific antidote is available.

SECTION 5

FIRE FIGHTING MEASURES

Specific Hazard: Combustible liquid (C1). Flash point ~ 70°C.

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

SECTION 5 FIRE FIGHTING MEASURES (Continued)

Hazards from combustion products: Sealed, overheated containers may violently rupture. Thermal decomposition and burning will produce toxic by-products (eg. oxides of carbon and nitrogen compounds). Fire-fighters 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: Extinguish all sources of ignition. Wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves, goggles and half facepiece respirator with dust cartridge or canister.

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.

This product is an insecticide. Prevent from entering drains, waterways or sewers. Use earthen bunds or absorbent bunding to prevent spreading of spillage. If a significant quantity of material enters drains, advise emergency services.

SECTION 7

HANDLING AND STORAGE

Precautions for Safe Handling: No smoking, eating or drinking should be allowed where material is used or stored. Poisonous if absorbed by skin contact or swallowed. Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container, preparing spray and using prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves and goggles. For space applications, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves, goggles and half facepiece respirator with dust cartridge or canister. If product in eyes, wash it out immediately with water. 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, goggles, contaminated clothing and respirator (and if rubber, wash with detergent and warm water).

Conditions for Safe Storage: Store in the closed original container in a well-ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Keep out of reach of children. Apparent Abamectin is classified as Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail. This product is a Schedule 6 Poison (S6) and must be stored in accordance with the relevant Health Department regulations. Product is a combustible liquid (C1) and must be stored away from naked lights, heat sources and oxidising agents. Observe procedures detailed in Australian Standard AS1940-1988 for flammable and combustible liquids.

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.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Exposure guidelines have not been established for this product by Safe Work Australia. However the following standard applies to one of the ingredients (methyl pyrrolidone) in this product:

Atmospheric Contaminant	Exposure Standard (TWA)	STEL (mg/m ³)
Methyl pyrrolidone	103 mg/m³ (25 ppm)	309 mg/m³ (75 ppm)
TWA = Time-weight Average. STEL = Short Term Exposure Level.		

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):

<u>General</u>: When opening the container, preparing spray and using prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves and goggles. For space applications, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves, goggles and half facepiece respirator with dust cartridge or canister. If product in eyes, wash it out immediately with water. 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, goggles, contaminated clothing and respirator (and if rubber, wash with detergent and warm water).

<u>Personal Hygiene:</u> Poisonous if absorbed by skin contact or swallowed. Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. Do not inhale 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
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Appearance: Odour: Boiling point: Freezing point: Specific Gravity: Solubility in Water: pH: Flammability: Corrosive hazard: Flashpoint (°C): Poisons Schedule:	Clear colourless to pale yellow coloured liquid. Characteristic solvent odour. No data. Approximately 1.0. Emulsifies in water. No data available. Combustible liquid (C1). Not corrosive. ~ 70°C. S6.
Poisons Schedule: Formulation type:	S6. Emulsifiable 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: Store away from sources of ignition. Do not store for prolonged periods in direct sunlight. Avoid oxidizing materials.

Incompatible materials: Oxidizing agents.

Hazardous decomposition products: When involved in a fire will emit toxic and noxious decomposition products/fumes (eg. oxides of carbon and nitrogen compounds).

Hazardous reactions: None known. Will not 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. This formulation contains aromatic hydrocarbons.

Potential Health Effects:

ACUTE EFFECTS

- **Swallowed:** Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual. There have been several reports of acute human exposure incidents with abamectin containing formulations. Abamectin is a mixture of avermectins. Clinical symptoms of severe abamectin intoxication include mydriasis, sedation, emesis, tremors, convulsions, coma and death. This product is harmful if swallowed. The estimated Acute Oral LD₅₀ (rat) = 300 mg/kg.
- **Eye:** This product may cause irritation to the eyes.
- **Skin:** This product maybe irritating to the skin and may be sensitising. This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition.
- **Inhaled:** Harmful by inhalation. Inhalation of mists or sprays may produce respiratory irritation. The estimated LC₅₀ is 3.5 mg/L/4 hours.

Long Term Exposure: When this product is used according to the directions, prolonged exposure to users is not expected. In a 1 year study with dogs given oral doses of 0.25 to 1 mg/kg/day, there were no changes in tissue at any dose level. However, some dogs at the 0.5 and 1 mg/kg/day levels had papillary dilation, weight loss, lethargy, tremors and recumbency. The NOEL for this study was 0.25 mg/kg/day. Similar results were seen in a 2 year study with rats fed 0.75, 1.5 or 2 mg/kg/day. No changes in the nervous or muscular systems were observed, but rats in all dosage levels exhibited body weight gains significantly higher than the controls. When mice were fed 8 mg/kg/day, the highest dose tested, for 94 weeks, the males developed dermatitis and changes in blood formation in the spleen, while females exhibited tremors and weight loss.

Abamectin has produced cleft palate in the offspring of treated mice and rabbits, but only at doses that were also toxic to the mothers. There were no birth defects in the offspring of rats given up to 1 mg/kg/day.

Abamectin is not mutagenic. Abamectin was not carcinogenic in rats of mice fed the maximum tolerated doses.

SECTION 12

ECOLOGICAL INFORMATION

Environmental Toxicology: No information is available for the product. The following information refers to the active ingredient, abamectin. Toxic to waterfowl (Mallard duck $LD_{50} = 84 \text{ mg/kg}$), but relatively non toxic to upland game birds (Bobwhite quail $LD_{50} > 2000 \text{ mg/kg}$) Toxic to fish - rainbow trout $LD_{50} = 3.6 \mu g/L$ and bluegill sunfish $LD_{50} = 9.6 \mu g/L$. Very toxic to *Daphnia magna* LC_{50} (48 hour) = 0.34 $\mu g/L$. Toxic to bees. DO NOT contaminate streams, rivers or water courses.

Environmental Fate: No information is available for the product. The following information refers to the active ingredient, abamectin. Abamectin binds tightly to soil with rapid degradation by soil microorganisms. Does not bioaccumulate.

DO NOT contaminate streams, rivers or waterways with Deltamethrin Duo or the used containers.

SECTION 13

DISPOSAL CONSIDERATIONS

Spills and Disposal: Persons involved in cleanup require adequate skin protection - see section 8. In case of spillage, contain and absorb spilled material with absorbent material such as clay, sand or cat litter and dispose of waste as indicated below or 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. Vacuum, shovel or pump waste into an approved drum. 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.

EXPLOSION WARNING: "EMPTY" containers may liquid and/or vapour residue which can be explosive if exposed to an ignition source at temperatures above 90°C. Such conditions may occur during cutting or welding. DO NOT cut or weld these containers

SECTION 14

TRANSPORT INFORMATION

Transport: This product is classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods: Class 6.1, with label "Toxic 6", UN No. 2902, Packaging Group III. Proper Shipping Name: PESTICIDES, LIQUID, TOXIC, N.O.S. (Contains Abamectin) Hazchem Code: 2XE. Hazard Identification Number (HIN) 66. Australian Standards Initial Emergency Response Guide No. 34.

This product is a Schedule 6 Poison (S6) and must be stored in accordance with the relevant Health Department regulations. Product is a combustible liquid (C1) and must be stored away from naked lights, heat sources and oxidising agents. Observe procedures detailed in Australian Standard AS1940-2004 for flammable and combustible liquids.

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 with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 67057.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. This product is classified as a Dangerous Good according to the ADG Code (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: 1 November 2021. Valid for 5 years till 1 November 2026. (5 year revision). 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.

SECTION 16 OTHER INFORMATION (Continued)

Mutagen OCS	An agent capable of producing a mutation. Office of Chemical Safety.				
		general term that refers to inflammation of lung tissue.			
PPE	Personal protective equipment.				
Teratogen	An agent	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 v	vorking week over an entire working life.			
Safe Work Au		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.
- 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.