1. IDENTIFICATION OF THE MATERIAL AND THE MANUFACTURER

Product Name	**MAC SLAY ANT BAIT 30g -SYRINGE** Insecticide in the form of a gel		
Statement of Hazard Nature	Not classified as a Dangerous Goods.		
Supplier Name	Arandee Ltd		
Address	108 Rockfield Road, Penrose, Auckland 1061, New Zealand		
Telephone	+64 (9) 579 5139		
Emergency	National Poisons Centre -24 hours	Australia New Zealand	13 11 26 0800 POISON 0800 764 766
E-mail	sales@arandee.co.nz		
Web Site	http://www.arandee.co.nz		
Synonym(s)	Ant gel, gel insecticide, paste		
Use(s)	Control of ant colonies		
Approval(s)	MPI approved Type D		

2. HAZARDS IDENTIFICATION

Classification of the substance mixture:

Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangeous Goods by Road and Rail. (7th edition).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion (w/w)
The components in this formulation are considered not to be hazardous and therefore are not required to be disclosed according to the WHS Regulations. Following is the information for the active constituent which is not classified as hazardous in this formulation.		
Indoxacarb	173584-44-6	0.05%

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g., phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation	There is no inhalation risk with this product. Bring affected person to fresh air, seek medical attention.
Skin Contact	If skin contact occurs, remove contaminated clothing and wash skin and hair with soap and water. If irritation occurs seek medical advice.
Eye Contact	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.
Ingestion	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.
First Aid Facilities:	Eyewash and normal washroom facilities.
Immediate treatment:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Normal foam, dry agent (carbon dioxide, dry chemical powder).
Specific hazards arising from the substance or mixture:	Non-combustible material.
Special protective equipment and precautions for fire-fighters:	Fire fighters should wear self-contained breathing apparatus and suitable protective clothing to prevent risk of exposure to products of decomposition.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures/Environmental precautions:	Clear area of all unprotected personnel. If contamination of sewers for waterways has occurred advise local emergency services.
Personal precautions/Protective equipment:	Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation.
Methods and materials for containment and cleaning up:	Contain -prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:	Keep containers closed at all times -check regularly for leaks or spills. Transport and store upright. Avoid skin and eye contact. Keep out of reach of children. Do not eat, drink or smoke in contaminated areas. Always remove contaminated clothing and wash hands before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
Conditions for safe storage, including any incompatibilities:	Store in the original container, in a cool dry well-ventilated area out of direct sunlight. Keep containers closed when not in use – check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:	No value assigned for this specific material by Safe Work Australia. No biological limit allocated.
Appropriate engineering controls:	Use in well ventilated areas. Keep containers closed when not in use.

Individual protection measures, such as Personal Protective Equipment (PPE):

This selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Observe good standards of hygiene and cleanliness. Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

Respiratory Protection:	A respirator is not needed under normal and intended conditions of product use however if ventilation is not adequate then a respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Eye and Face Protection:	Safety glasses /goggles with side shield protection may be worn as a general precaution. Consult AS/NZS 1336 and AS/NZS 1337 for further information.
Skin Protection:	PVC or nitrile rubber gloves should be worn as a general precaution. Always check with the glove manufacturer or your personal protective equipment supplier regarding the correct type of glove to use. Consult AS/NZS 2161 for further information. Trousers, long sleeved shirt or overalls and closed in shoes or safety footwear should be worn as a general precaution. Consult AS/NZS 2210 and AS/NZS2919 for further information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	DARK BROWN	**Solubility (water)**	NO INFORMATION AVAILABLE
Physical State	GEL	**Relative Density**	NO INFORMATION AVAILABLE
Odour	SWEAT ODOUR	**VOC g/L**	NO INFORMATION AVAILABLE
Odour Threshold	NOT AVAILABLE	**Partition coefficient n-octanol / water**	NO INFORMATION AVAILABLE
Ph (as supplied)	NO INFORMATION	**% Volatiles**	NOT AVAILABLE

	AVAILABLE		
Vapour Pressure (kPa)	NO INFORMATION AVAILABLE	**Flammability**	NON-FLAMMABLE
Vapour Density	NO INFORMATION AVAILABLE	**Flash Point**	NON-FLAMMABLE
Melting Point / Freezing Point (°C)	NO INFORMATION AVAILABLE	**Upper Explosion Limit (%)**	NO INFORMATION AVAILABLE
Initial Boiling Point and Boiling Range (°C)	NO INFORMATION AVAILABLE	**Lower Explosion Limit (%)**	NO INFORMATION AVAILABLE
Evaporation Rate	NO INFORMATION AVAILABLE	**Auto-ignition Temperature (°C)**	NO INFORMATION AVAILABLE
Decomposition Temperature (°C)	NO INFORMATION AVAILABLE	**Viscosity (cSt)**	NO INFORMATION AVAILABLE
Molecular Weight (g/mol)	NO INFORMATION AVAILABLE	**Taste**	NO INFORMATION AVAILABLE
Explosive Properties	NONE; NOT SHOCK OR THERMALLY EXPLOSIVE.	**Oxidising Properties**	NONE; NON-REACTIVE TO IRON FILLINGS, PLASTIC AND MINERAL SPIRITS.
Surface Tension (dyn/cm or mN/m)	NO INFORMATION AVAILABLE	**Gas Group**	NO INFORMATION AVAILABLE

10. STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical Stability	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of Hazardous Reactions	None known.
Incompatible Materials	None known.
Hazardous Decomposition Products	No hazardous decomposition products if stored and handled as prescribed / indicated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral LD50 (estimated from ingredients)>5000 mg/kg bw Inhalation LD50 (dust/mist, estimated from ingredients)>5 mg/L bw
Ingestion	Available information indicates that it is not considered an acute oral toxicant.
Inhalation	Available information indicates that is not considered an inhalation risk.

Skin	Not considered a skin irritant.
Eye	Not considered an eye irritant.
Respiratory or skin sensitisation	A moderate skin sensitiser and not expected to be a respiratory sensitiser.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to a carcinogenic.
Reproductive toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	Not expected to cause toxicity to a specific target organ.
STOT-repeated exposure	Not expected to cause toxicity to a specific target organ.
Aspiration hazard	Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid contaminating waterways. Under normal and intended conditions of use, the product does not present an ecotoxicity hazard however accidental spills and leaks directly into waterways may be toxic to aquatic organisms.
	Information on indoxacarb technical grade active constituent:
Fish	Highly toxic to fish
	LC50 (96 hours) = 0.65mg/L Rainbow trout (Oncorhynchus mykiss)
Aquatic invertebrates	Highly toxic to aquatic invertebrates
	EC50 (48 hours) = 0.6 mg/L Water flea (Daphnia magna)
Aquatic plants:	Practically nontoxic to aquatic plants
	EC50 (14 days) =>84.3mg/L Duckweed (Lemna gibba)
Persistence/degradability	Indoxacarb is not readily biodegradable.
	Indoxacarb is not considered to be persistent (PBT) or very persistent (vPvB).
Bioaccumulative Potential	Indoxacarb is not considered to be bioaccumulating nor toxic (PBT).
	Indoxacarb is not to be very bioaccumulating (vPvB).
	Bluegill Sunfish (Lepomis macrochirus) =950.3 (21 days)
Mobility in Soil	Indoxacarb is slightly mobile in soils.

13. DISPOSAL CONSIDERATIONS

Disposal methods	Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations. Normally suitable for incineration by an approved agent.

14. TRANSPORT INFORMATION

Road and Rail Transport	Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEOUS GOODS.

Marine Transport	Not classified as Dangerous Goods by the criteria of International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.
Air Transport	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for the transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

Poison Schedule	5 - CAUTION
APVMA:	88106
AICS:	All the constituents of this material is either listed on the Australian Inventory of Chemical Substances (AICS), not required due to the nature of the chemical, or have been assessed under the National Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

16. OTHER INFORMATION

General Information	None
Issue Number	002
Issue Date	16 May 2023 In any event, the review and, if necessary, the re-issue of an SDS shall be no longer than 5 years after the last date of issue.
Reason(s) for Issue:	First issue
Literary Reference	None
Key Abbreviations or Acronyms used:	ADG Code – Australia Code for the Transport of Dangerous Goods by Road and Rail (7th edition) AICS -Australian Inventory of Chemical Substances AgVet Code Act 1994 -Agricultural and Veterinary Chemicals Code Act 1994 APVMA -Agricultural Pesticides and Veterinary Medicines Australia GHS -Globally Harmonised System of Classification and Labelling of Chemicals (3rd revised edition) 2009 IRC -International Agency for Research on Cancer LD_{50} or LC_{50} -Estimated lethal dose / concentration to kill 50% of the population sample Code of Practice Preparation Safety Data Sheets, HSNO CoP 8-1 09-06 (September 2016) STEL – Short term exposure limit means the average airborne concentration of a substance calculated over a 15-minute period. The STEL should not be exceeded at any time during a normal eight hour working day. STOT – Specific Target Organ Toxicity TWA – Time weighted average means the average concentration of a chemical in air over an 8-hour working day. Mg/m3 - Milligrams per cubic metre ppm –Parts Per Million M - moles per litre, a unit of measure of concentration.

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 – 14, where 0 is highly acidic and 14 is highly alkaline.
TWA/ES - Time Weighted Average or Exposure Standard.
CAS# - Chemical Abstract Service number - uniquely identifies chemical compounds.
CNS - Central Nervous System
NOS - Not Otherwise Specified
IARC - International Agency for Research on Cancer.

Respirators

In general, the best practice to avoid exposure is to use engineering controls, such as adequate ventilation, rather than the use of respirators (which should be limited).
If respiratory equipment must be worn, ensure correct respirator selection and training is undertaken. Some respirators may be extremely uncomfortable, when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

Personal Protective Equipment

The recommendations for protective equipment contained within this SDS report are provided as a guide only, when dealing with an abnormal situation. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before the final selection of personal protective equipment is made.

Health Effects from Exposure

It should be noted that the effects from excess exposure to this product would depend on several factors, including duration of exposure, quantity involved, effectiveness of control measures used; protective equipment and method of application. Given that, it is impractical to prepare a SDS report, which would encompass all possible scenarios, it is anticipated that users will assess the risks in an emergency and apply appropriate control methods.

Report Status

This report is based upon information provided by ingredient manufacturers, and third-party experts. We believe that the information represents the current state of knowledge about safety and handling precautions that are appropriate for this product. Further clarification regarding any aspect of the product should be obtained directly from the Chief Chemist at Arandee Ltd.
While Arandee has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy, or completeness. As far as lawfully possible, Arandee accepts no liability for any loss, injury, or damage (including consequential loss) which may be suffered, or incurred by any person, because of their reliance upon the information contained in this Safety Data Sheet.

ENDS.