



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Doxem Precise Insecticide**
Product Use: Insecticide for use as described on the product label.
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd
Address: Level 1/93 Bolt Road
Tahunanui, Nelson
Telephone: +64 3 543 8275
Fax Number: +64 3 543 8274

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 19 October 2021

Section 2. Hazards Identification

This substance is hazardous according to the *Hazardous Substances (Classification) Notice 2020*

EPA Approval No: HSR101471

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment chronic Cat. 4	H413	May cause long lasting harmful effects to aquatic life.
Hazardous to terrestrial invertebrates	H442	Hazardous to terrestrial invertebrates

Prevention Code	Prevention Statement
P103	Read label before use.
P261	Avoid breathing dust, fumes, gas, mist, vapours or spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Indoxacarb (25:75)	8*	173584-44-6
Other Non-hazardous ingredients	To 1kg	-
* Equivalent to 6 g/kg active S-isomer.		

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Quickly and gently brush particles from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water until the particles are removed, while holding the eyelid(s) open. Obtain medical attention if irritation persists, or if particles are lodged in surface of the eye(s). Take special care if exposed person is wearing contact lenses.
If on Skin	Gently brush away excess particles. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.
If Swallowed	If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Inhaled:	Not applicable.
Ingestion:	Not applicable.
Skin.	May cause an allergic skin reaction.

Section 5. Fire Fighting Measures

Hazard Type	Combustible solid for which no flammability class applies.
Hazards from combustion products	The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product, if scattered, may form flammable or explosive dust clouds in air. Fire decomposition products from this product may be toxic if

	inhaled. Take appropriate protective measures.
Suitable Extinguishing media	In case of fire, use carbon dioxide, dry chemical or foam.
Precautions for firefighters and special protective clothing	When fighting fires involving significant quantities of this product, wear a splash suit complete with self-contained breathing apparatus. Do not scatter spilled material with high pressure water jets.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. No special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products.

Environmental precautions

In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

Methods and material for containment and cleaning up

For minor spills, clean up, rinsing to sewer and put empty container in garbage.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Avoid breathing dust, fumes, gas, mist, vapours or spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Keep exposure to this product to a minimum, and minimise the quantities kept in work areas.
- The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Protect this product from light.
- Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
- Check packaging - there may be further storage instructions on the label.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2020 12TH EDITION.

Engineering Controls

This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.

Personal Protection Equipment

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Eyes	Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.
Hands and Skin	Wear suitable impervious elbow-length gloves and facial protection when handling this product for lengthy periods. See below for suitable material types.
Respiratory	If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable dust mask.
General	Do not eat, drink or smoke when using this product. Be careful not to contaminate yourself when removing contaminated clothing.

Section 9 Physical and Chemical Properties

Appearance	Yellowish brown powder.
Odour	Moderately sweet odour.
Odour Threshold	Not applicable
pH	5.0-6.0 (1% aqueous dispersion)
Boiling Point	Not applicable
Freezing/Melting Point	No specific data. Solid at normal temperatures.
Flash Point	Not available
Flammability	Non Flammable
Upper and Lower Exposure Limits	Not applicable
Vapour Pressure	Not applicable
Vapour Density (air=1)	Not applicable
Density (g/ml)	Not applicable
Specific Gravity	Approx 0.750
Solubilities	Not applicable
Partition coefficient (n-octanol/water):	Not applicable
Auto Flammability	Not applicable
Viscosity:	Not applicable
Surface tension:	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Reactivity	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid	Protect this product from light. Store in the closed original container in a dry, cool, well- ventilated area out of direct sunlight.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Significant oral exposure is considered to be unlikely. Available data shows that this product is not harmful. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.
Dermal	Not applicable.
Inhalation	Not applicable. Long term inhalation of high amounts of any nuisance dust may overload lung clearance mechanism. No data for health effects associated with long term inhalation.
Eye	This product is likely to be mechanically irritating. If exposure is minor or brief, no long term effects should result. However, if material is not removed promptly, scratches to surface of the eye may result with long term consequences.
Skin	May cause an allergic skin reaction. It should present no hazards in normal use. However, product may be irritating, but is unlikely to cause anything more than mild transient discomfort. This product contains indoxacarb, a dermal sensitiser. Sensitisation through exposure to this product is considered unlikely due to the low concentration, however persons with an existing sensitisation to indoxacarb may experience allergic reactions to this product.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Individual component information:**Indoxacarb**

- Acute toxicity – category 3
- Acute toxicity – category 4
- Specific target organ toxicity (repeated exposure) – category 1
- Skin sensitisation – category 1B
- Hazardous to the aquatic environment (acute) – category 1
- Hazardous to the aquatic environment (chronic) – category 1

Section 12. Ecotoxicological Information

May cause long lasting harmful effects to aquatic life.
Hazardous to terrestrial invertebrates

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

Precautions: Do not allow product to enter waterways.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

This substance is hazardous according to the *Hazardous Substances (Classification) Notice 2020*

EPA Approval Code: HSR101471

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	1000L(Hazardous to terrestrial invertebrates)
Emergency Response Plan (Schedule 5)	Not required
Secondary Containment (Schedule 5)	Not required
Tracking (Schedule 26)	Not required
HSNO Additional Controls (Restrictions of use)	
77A- Sale Restriction	An additional control is applied to ensure that Doxem Precise Insecticide will only be made available for professional users for pest eradication, and is not supplied for retail sale to the general public for domestic users.
77A – Use Restriction	When applied indoors, the substance may only be applied as a spot treatment in areas that are inaccessible to children and domestic pets, and must not be applied to furniture, carpets or other surfaces where children or domestic pets may come into contact with it.
For all further controls:	Refer to EPA website www.epa.govt.nz for controls document - HSR100598
ACVM Act and Regulations	
ACVM Approval No	Not applicable
See www.foodsafety.govt.nz for registration conditions.	

Section 16 Other Information

Glossary

Cat	Category
EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.

TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2020
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2020 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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