Safety Data Sheet
according to WHS Regulations

Printing Date 20.07.2021 Revision: 20.07.2021

1. Identification

Product Name: ENSNARE PRO 50 SC

Other Means of Identification: Mixture
APVMA Number: 83224/107760

Recommended Use of the Chemical and Restriction on Use: Insecticide

Details of Manufacturer or Importer:
Sundew Solutions Pty Ltd
Unit 11, 4 Dunlop Court
Bayswater VIC 3153

Phone Number: 1800 786 339

Emergency telephone number: 1800 786 339

2. Hazard(s) Identification

Hazardous Nature:
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)


health hazard

STOT RE 2	H373	May cause damage to the heart, the blood and the nervous system through prolonged or repeated exposure.



Acute Toxicity (Oral) 4	H302	Harmful if swallowed.
Skin Sensitisation 1	H317	May cause an allergic skin reaction.
Aquatic Acute 2	H401	Toxic to aquatic life.

Signal Word Warning

Hazard Statements
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H373 May cause damage to the heart, the blood and the nervous system through prolonged or repeated exposure.
H401 Toxic to aquatic life.

Precautionary Statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (see on this label).

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P330 Rinse mouth.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national regulations.

3. Composition and Information on Ingredients

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:		
57-55-6	1,2-Propanediol	<10%
173584-44-6	Indoxacarb (ISO)	5%
	Acute Toxicity (Oral) 3, H301; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Toxicity (Inhalation) 4, H332; Skin Sensitisation 1B, H317	
2634-33-5	1,2-benzisothiazol-3(2H)-one	0.03%
	Serious Eye Damage/Irritation 1, H318; Aquatic Acute 1, H400; Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; Skin Sensitisation 1, H317	

4. First Aid Measures

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:
In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. DO NOT scrub the skin. Seek medical attention if symptoms occur.

Eye Contact:
In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. DO NOT allow the victim to rub their eyes or keep their eyes closed. Seek medical attention if symptoms occur.

Ingestion:
If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. If not breathing, give artificial respiration. Seek immediate medical attention.

Symptoms Caused by Exposure:
Inhalation: May cause respiratory discomfort. Inhalation of high concentrations may cause effects similar to ingestion.
Skin Contact: May cause mechanical skin irritation. May cause an allergic skin reaction.
Eye Contact: May cause transient eye irritation.
Ingestion: Harmful if swallowed. May cause headache, dizziness, weakness and nausea.

5. Fire Fighting Measures

Suitable Extinguishing Media:
Water fog, foam, dry chemical or carbon dioxide. Do not use full water jet as it may spread the fire of cause a violent steam eruption.

Specific Hazards Arising from the Chemical:
Hazardous combustion products include oxides of carbon and nitrogen, hydrogen fluorides and acrid smoke.
Product is not flammable, but may burn if heated.
Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

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Special Protective Equipment and Precautions for Fire Fighters:
When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:
In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:
Stop leak if safe to do so. Place leaking containers in a containment vessel or bunded area. Is possible recover the spilt material by pumping, or otherwise absorb the spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7. Handling and Storage

Precautions for Safe Handling:
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.
Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Contaminated work clothing must not be allowed out of the workplace. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:
Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect containers from physical damage to prevent leaks. Protect from heat, sparks, open flames, hot surfaces and direct sunlight. Keep away from strong acids, oxidising agents, bases and reducing agents.
Do not store with food, feedstuff, fertilizers or seed.

8. Exposure Controls and Personal Protection

Exposure Standards:	
57-55-6 1,2-Propanediol	
WES	TWA: 474* 10** mg/m³, 150* ppm *vapour&particluates;**particulates only

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:
When spraying this product below 1 m in height wear a disposable Class P2 (particulate) respirator as a minimum. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:
Nitrile or neoprene gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.
Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

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Eye and Face Protection:
Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9. Physical and Chemical Properties

Appearance:	
Form:	Liquid
Colour:	Opaque white
Odour:	No information available
Odour Threshold:	No information available
pH-Value:	5.0 - 6.0
Melting point/freezing point:	Not applicable
Initial Boiling Point/Boiling Range:	~100 °C
Flash Point:	>100 °C
Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density at 20 °C:	1.00 - 1.05
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Forms a suspension.
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10. Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.

Incompatible Materials: Strong acids, oxidising agents, bases and reducing agents.

Hazardous Decomposition Products: Oxides of carbon and nitrogen, hydrogen fluorides and acrid smoke.

11. Toxicological Information

Toxicity:

LD_{50}/LC_{50} Values Relevant for Classification:		
57-55-6 1,2-Propanediol		
Oral	LD_{50}	2000 mg/kg (rat)
Dermal	LD_{50}	20800 mg/kg (rabbit)
173584-44-6 Indoxacarb (ISO)		
Oral	LD_{50}	268 mg/kg (rat)
Dermal	LD_{50}	>5000 mg/kg (rat)
Inhalation	LC_{50}	>5.5 mg/l (rat)

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Oral	LD_{50}	3537 mg/kg (Estimated)

Acute Health Effects
Inhalation:
May cause respiratory discomfort. Inhalation of high concentrations may cause effects similar to ingestion.
Skin: May cause mechanical skin irritation. May cause an allergic skin reaction.
Eye: May cause transient eye irritation.
Ingestion: Harmful if swallowed. May cause headache, dizziness, weakness and nausea.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:
Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:
May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:
Prolonged or repeated exposure may cause Central Nervous System (CNS) effects such as tremors, incoordination and disorientation. Repeated inhalation or skin contact may cause sensitisation.

Existing Conditions Aggravated by Exposure:
Persons with pre-existing skin or respiratory conditions are advised to limit or avoid contact.

Additional toxicological information:
Tremors and impaired mobility have been observed in clinical studies.

The Australian Acceptable Daily Intake (ADI) for indoxacarb for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.
(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2017).

12. Ecological Information

Ecotoxicity:
Indoxacarb is harmful to terrestrial vertebrates and invertebrates.
Honey bee toxicity: 0.094 µg/bee.

Aquatic toxicity:	
173584-44-6 Indoxacarb (ISO)	
EC_{50}	0.11 mg/l (algae)
	0.60 mg/l (daphnia)
LC_{50}	0.65 mg/l (fish)

Toxic to aquatic life.

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Persistence and Degradability:
This product is not considered to be persistent and undergoes moderately fast hydrolysis.

Bioaccumulative Potential:
Indoxacarb is considered to be moderately bioaccumulative.
Indoxacarb has a Bioconcentration Factor (BCF) of 520.

Mobility in Soil:
This product is not readily soluble in water and so is likely to have low mobility in the environment.
Other adverse effects: No further relevant information available.

13. Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:
Please consult your state Land Waste Management Authority for more information.

14. Transport Information

UN Number Not regulated

Proper Shipping Name Not regulated

Dangerous Goods Class Not regulated

Packing Group: Not regulated

15. Regulatory Information

Australian Inventory of Chemical Substances:	
57-55-6	1,2-Propanediol
2634-33-5	1,2-benzisothiazol-3(2H)-one

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 6

16. Other Information

Date of Preparation or Last Revision: 20.07.2021

Prepared by:

Abbreviations and acronyms:
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC_{50}: Lethal concentration, 50 percent
LD_{50}: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
Acute Toxicity (Oral) 3: Acute toxicity – Category 3
Acute Toxicity (Inhalation) 4: Acute toxicity – Category 4
Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2
Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1
Skin Sensitisation 1: Skin sensitisation, Hazard Category 1
Skin Sensitisation 1B: Skin sensitisation, Hazard Category 1B
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1
Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2

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Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016”

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Sundew Solutions Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. Sundew Solutions Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.