

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Capra**
 Product Use: Insecticide
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Agrisource 2000 Ltd**
 Address: 45 Kitchener Road
 Pukekohe, Auckland

Telephone: +64 9 237 0422
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 28 February 2022

Section 2. Hazards Identification

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

EPA Approval No: HSR000583

Pictograms



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes damage to organs through prolonged or repeated exposure.
Hazardous to terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates.
Hazardous to terrestrial invertebrates	H441	Hazardous to terrestrial invertebrates.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dust, fumes, gas, mist, vapours or 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 clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Indoxacarb	14.73	144171-61-9
Sodium Lauryl sulphate	<1	151-21-3
Ethylene Glycol	1-5	107-21-1
Other non-hazardous ingredients	Balance	NA

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.
If on Skin	After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.
If Swallowed	Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.
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. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:	Harmful if swallowed. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.
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Advice to Physician: Treat Symptomatically

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from products	No known hazardous decomposition products
Suitable Extinguishing media	Co-ordinate fire-fighting measures to the fire surroundings.
Precautions for firefighters and special protective clothing	Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Wear protective clothes as detailed in Section 8. Evacuate all unnecessary personnel. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Do not allow to enter into surface water or drains.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of 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.
- Keep out of reach of children.
- Keep container tightly closed.

Section 8. Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	mg/m ³	STEL	
			ppm	mg/m ³
Ethylene glycol [107-21-1]	-	-	50	127

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

If handled uncovered, arrangements with local exhaust ventilation have to be used.
Do not breathe gas/fumes/vapour/spray.

Personal Protection Equipment



Eyes	Suitable eye protection: goggles.
Hands	When handling with chemical substances, protective gloves must be worn. The quality of the protective gloves resistance to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Skin	Use of protective clothing.
Respiratory	In case of inadequate ventilation wear respiratory protection.
General	Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Section 9. Physical and Chemical Properties

Appearance	Liquid
Colour	Ivory
Odour	Characteristic
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1,039 g/cm ³
Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	No hazardous reaction when handled and stored according to provisions.
Conditions to Avoid	None known.
Incompatible Materials	No data available.
Hazardous Decomposition Products	No known hazardous decomposition products.

Section 11. Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 >5000mg/kg (rat)
Dermal	Not applicable. LD50 >5000mg/kg (rabbit)
Inhalation	Not applicable. LC50 >2.04 mg/kg (rat)
Eye	Causes serious eye irritation.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
173584-44-6	indoxacarb				
	oral	LD50 179 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat	Manufacturer / supplier	
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 >2 mg/l	Rat	the pesticide manual	
107-21-1	ethanediol; ethylene glycol				
	oral	ATE 500 mg/kg			
	dermal	LD50 10600 mg/kg	Rabbit	GESTIS	
151-21-3	Sodium dodecyl sulfate				
	oral	LD50 1290 mg/kg	Rat	ChemIDplus	
	dermal	LD50 10000 mg/kg	Rabbit	ChemIDplus	
	inhalation vapour	ATE 11 mg/l			
	inhalation (1 h) aerosol	LC50 >3900 mg/l	Rat	ChemIDplus	

Section 12. Ecotoxicological Information

Hazardous to terrestrial vertebrates.
Hazardous to terrestrial invertebrates.

Product: Fish Toxicity	LC ₅₀ 5,300mg/l (pimephales promelae)
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Ecotoxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
173584-44-6	indoxacarb					
	Acute fish toxicity	LC50 mg/l	0.65	96 h	Oncorhynchus mykiss (Rainbow trout)	The pesticide manual
	Acute algae toxicity	ErC50	0.3 mg/l			
	Acute crustacea toxicity	EC50	0.6 mg/l	48 h	Daphnia pulex (water flea)	the pesticide manual
151-21-3	Sodium dodecyl sulfate					
	Acute fish toxicity	LC50	38 mg/l	96 h	Zebrafish, Flagfish, and Rainbow Trout	GESTIS
	Acute algae toxicity	ErC50	15 mg/l	72 h	Algal	GESTIS
	Acute crustacea toxicity	EC50	162 mg/l	48 h	Daphnia obtusa	GESTIS

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.



Precautions or methods to avoid: Avoid release to the environment.

Section 14. Transport Information



Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (Indoxacarb)
Marine Pollutant	Yes
Special Provisions	IMDG 274 335 375 601 IATA A97 A158 A197 A215
Classification Code	M6
Limited Quantity	If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.
Excepted Quantity	E1

Section 15. Regulatory Information

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

EPA Approval No: HSR000583

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	Not required
Emergency Response Plan (Schedule 5)	10 000L
Secondary Containment (Schedule 5)	10 000L
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
HSNO Additional Controls (Restrictions of use)	
	For intended use only
ACVM Act and Regulations	
See www.foodsafety.govt.nz for registration Conditions	P009928

Section 16. Other Information**Glossary**

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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 2017
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 Agrisource 2000 Ltd, if further information is required.

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