

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Avipel®**
 Product Use: Seed Treatment – Bird Repellant
 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: 12 May 2025

Section 2. Hazards Identification

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

EPA Approval No: HSR101644

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Carcinogenicity Cat. 2	H351	Suspected of causing cancer.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment chronic Cat. 2	H410	Very toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment [if this is not the intended use].
P280	Wear protective clothing [as detailed in SDS Section 8].
EPA Labelling notice	Do not apply directly into or onto water
EPA Labelling notice	Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up out of direct sunlight away from food or feedstuffs and away from incompatible substances.

Disposal Code	Disposal Statement
P501	Dispose of unwanted product by use by another operator strictly in accordance with label directions or dispose of according to Local Regulations or Authorities. Seeds treated with this substance must be disposed of as though the seeds have the same hazard classification as this substance.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
9, 10 Anthraquinone	18.6	84-65-1
Limestone	15-40	1317-65-3
Other ingredients	Balance to 100	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	In case of skin contact, immediately flush skin with plenty of water and soap. Remove contaminated clothing. Cold water may be used. Wash clothing before reuse. Get medical attention if irritation persists.
If Swallowed	Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
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: None known.

Advice to Physician: Treat Symptomatically

Section 5. Fire Fighting Measures

Hazard Type	Dried product is capable of burning.
Hazards from combustion products	Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon monoxide. Carbon dioxide..
Suitable Extinguishing media	Foam, carbon dioxide or dry chemical. Unsuitable: Water in a jet.
Precautions for firefighters and special protective clothing	In the event of a fire wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or gases. Keep up-wind. Do not allow washings to reach sewage or effluent systems.
HAZCHEM CODE	3Y

Section 6. Accidental Release Measures

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and an approved pesticide respirator or air-supplied respirator. Evacuate all unnecessary personnel. Extinguish any sources of ignition. Spills may be slippery and should be cleaned up immediately.

Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains. Inform Local Authorities if product enters drains or waterways.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Obtain special instructions before use.
- Any person purchasing, handling or disposing of this product must be suitably qualified.
- Do not handle until all safety precautions have been read and understood.
- When mixing or applying, avoid contact with skin and eyes.
- Do not eat or drink while using.
- Wash hands and face before meals and after work.
- Wash protective clothing after work.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store locked up out of direct sunlight.
- Store in original container tightly closed and in a locked, dry, cool, well-ventilated area, away from feed, seeds and foodstuffs.
- Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
- Packaging Materials: HDPE Plastic bottle.

Section 8. Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Limestone	-	10	-	-
Propylene Glycol	150	474 (vapour and particulates)		10 (particulates only)

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

Ensure ventilation is adequate, generally natural ventilation is adequate. Keep containers closed when not in use.

Personal Protective Equipment



Eyes	Wear chemical goggles or face shield.
Hands and body	When opening the container, preparing and using spray, wear chemical resistant overalls buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves.
Respiratory	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General	Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

Section 9. Physical and Chemical Properties

Appearance	Tan, opaque viscous Liquid.
Colour	Tan
Odour	Slight aromatic
Odour Threshold	Not available
pH	7.5 – 8.5
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
Specific Gravity or density	1.33
Solubility	Dispersible in water
Partition Coefficient:	Anthraquinone 3.39
Auto-ignition Temperature	Not available
Decomposition Temperature	270°C
Kinematic Viscosity	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions of use and storage.
Possibility of hazardous reactions	None expected.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products	Thermal decomposition may produce toxic gases. Carbon monoxide. Carbon dioxide.

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	Rabbit – moderate irritant
Skin	Rabbit – slight irritant

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	May cause damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

Product: Fish Toxicity	Anthraquinone LC50 (96h) fathead minnow = 2,650 mg/L
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Do not apply onto or into water. Do not allow to enter waterways.

Section 13. Disposal Considerations**Disposal Method:**

Triple rinse container. Dispose of cleaned container at your local AGRECOVERY container collection site.

Precautions or methods to avoid:

Do not allow to enter waterways.

Treated Seeds:

The controls specified under the Hazardous Substances (Disposal) Notice 2017 for this substance are applied to seeds treated with this substance as though the seeds have the same hazard classification as this substance.

Section 14. Transport Information

This product is classified as a Dangerous Good for transport in NZ ; SNZ 5433:2021



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 (9,10 Anthraquinone)
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5kg, 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.

Section 15. Regulatory Information

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

EPA Approval No: HSR101644

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L

HSNO Additional Controls	
Additional control	Information must be provided with the seeds treated with this substance to indicate the substance that the seeds have been treated with, its hazardous properties and the precautions to be taken when handling the seeds.
Additional control	This substance must only be used as a seed treatment.
Additional control	This substance may only be applied to seeds in a purpose-built seed coating machine, in a treatment facility. The application rate must be included on the substance label and information provided with seeds treated with this substance.
Variation to Disposal Notice	The controls specified under the Hazardous Substances (Disposal) Notice 2017 for this substance are applied to seeds treated with this substance as though the seeds have the same hazard classification as this substance.
Variation to Hazardous Property Controls Notice Part 4B	When applied to maize and sweetcorn seeds the maximum application rate is 1 L/100 kg of seed. When applied to turf, forage brassica, forage grass, forage herb and cereal seeds the maximum application rate is 1.2 L/100 kg.
Variation to Hazardous Property Controls Notice Part 4B	Clause 52 of the Hazardous Property Controls Notice applies to seeds treated with this substance as if they are an agrichemical that is in the hazard class hazardous to the aquatic environment.

ACVM Act and Regulations	
See www.foodsafety.govt.nz for registration Conditions	N/A

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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