

## SAFETY DATA SHEET

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

### Section 1. Identification of the material and the supplier

Product: **1,4 SIGHT**  
 Product Use: **Potato Dormancy Enhancer**  
 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)**

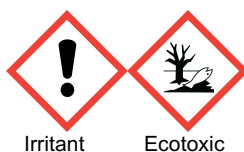
Date of SDS Preparation: 19 May 2021

### Section 2. Hazards Identification

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

**EPA Approval No: HSR000792**

#### Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment acute/chronic Cat. 1	H400/H410	Very toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash hands thoroughly after handling.
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.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: 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.
1,4-dimethylnaphthalene	97.4%	571-58-4
Impurities	2.6%	-

### 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	Take off contaminated clothing and wash before re-use. Wash skin with plenty of soap and water. Do not scrub. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Wash out mouth thoroughly with water. 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 needed.
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: Causes skin irritation. Causes serious eye irritation.

Treatment: Apply symptomatic treatment.

### Section 5. Fire Fighting Measures

Hazard Type	Non Flammable. Will support combustion.
Hazards from products	Toxic organic materials and toxic/corrosive oxides of carbon and nitrogen.
Suitable Extinguishing media	Water spray, carbon dioxide and dry chemical.
Precautions for firefighters and special protective clothing	Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or gases
HAZCHEM CODE	3Z

## Section 6. Accidental Release Measures

Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

Contain spill, do not allow material to enter sewers or bodies of water. Keep unprotected persons and animals out of the area.

Soak up with sand, sawdust or other absorbent material, shovel or sweep. Place in a container for disposal. Dispose of contained wastes in accordance with the requirements of Local Authorities as detailed in Section 13.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Avoid release to the environment.
- When applying, wear protective clothing, neoprene or PVC gloves, and goggles.
- Avoid contact with skin and eyes and avoid breathing spray mist.
- Wash hands and face before meals and after work.
- Wash protective clothing after work.
- Do not eat, drink or smoke while using.
- Very toxic to aquatic organisms. Do not contaminate any water supply with chemical or empty container.

### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children or animals.
- Store in original container, tightly closed in a locked, dry, well ventilated place away from food or feedstuffs.
- Keep away from sparks, heat and flames.
- Packaging materials: Metal containers

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

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 (WES-STEL). 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 2019 11<sup>TH</sup> EDITION.

### Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

## Personal Protection Equipment



<b>Eyes</b>	Avoid contact with eyes. wear safety goggles or face shield.
<b>Skin</b>	Wear long sleeved shirt, long pants, waterproof gloves.
<b>Respiratory</b>	Generally natural ventilation is adequate.
<b>General</b>	Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

### Section 9 Physical and Chemical Properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Pale yellow
<b>Odour</b>	Petroleum distillate odour
<b>Odour Threshold</b>	Not available
<b>pH</b>	5.9
<b>Boiling Point</b>	264°C @ 744 mmHg
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	5°C
<b>Flash Point</b>	Not available
<b>Flammability</b>	Flammable @ 122°C and 760mm Hg
<b>Explosive properties</b>	Not Explosive @ 25°C @ Maximum Explosive Drop Height ( 32.25 inches)
<b>Vapour Pressure</b>	1.88X 10 <sup>-2</sup> mm Hg @ 25°C
<b>Vapour Density</b>	Not available
<b>Specific Gravity or Density</b>	1.014 @ 25°C
<b>Solubility</b>	5.1 ppm @ 25+ 1°C
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Octanol/Water Particle Coefficient</b>	Not available

### Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Stable under normal storage conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to Avoid</b>	Temperatures below 5°C (Freezes)
<b>Incompatible Materials</b>	Oxidisers.
<b>Hazardous Decomposition Products</b>	Fire - Toxic organic materials and toxic/corrosive oxides of carbon and nitrogen.

### Section 11 Toxicological Information

#### Acute Effects:

<b>Swallowed</b>	Not applicable. LD50 2730mg/kg (rat)
<b>Dermal</b>	Not applicable. LD50 >2000mg/kg (rabbit)
<b>Inhalation</b>	Not applicable. LC50 > 4.2 mg/litre ,4 hr (Rat)
<b>Eye</b>	Causes serious eye irritation.
<b>Skin</b>	Causes skin irritation.

## Chronic Effects:

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

## Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.

<b>Product:</b>	Fish: LC 50 = 0.67 mg/litre (Rainbow trout) Birds: LD50 >2,000 mg/kg (Bobwhite quail)
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

Avoid contamination of bodies of water with chemical or empty container.

## 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. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



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

## Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



### Road, Rail, Sea and Air Transport

<b>UN No</b>	3082
<b>Class - Primary</b>	9
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (1,4-dimethynaphthalene)
<b>Marine Pollutant</b>	Yes
<b>Special Provisions</b>	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.

**Section 15 Regulatory Information**

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

EPA Approval Code: HSR000792

<b>HSW (HS) Regulations 2017</b>		<b>Trigger Quantity</b>
Signage Trigger Quantities (Schedule 3)		100L (aquatic Acute/Chronic Cat. 1)
Emergency Response Plan (Schedule 5)		100L (aquatic Acute/Chronic Cat. 1)
Secondary Containment (Schedule 5)		100L (aquatic Acute/Chronic Cat. 1)
Tracking (Schedule 26)		Not required
Certified Handlers		Not required
Location Certificate		Not required
<b>HSNO Additional Controls (Restrictions of use)</b>		
77A		The substance must not be applied onto or into water.
<b>Hazardous Property Controls Notice 2017</b>		
HPC Notice Part 4 Clause 47		Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48		Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 3		Hazardous substances in a place other than a workplace.
HPC Notice Part 4 Subpart A		Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart C		Qualifications required for application of class 9 pesticide.
<b>ACVM Act and Regulations</b>		
See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration Conditions		<b>P5791</b>

## Glossary

Cat	Category
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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 2017 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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have 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, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the Agrisource 2000 Ltd, if further information is required.

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