


## Section 1: Identification

Product name:	OHAYO 500 SC
Other names:	Suspension concentrate containing 500 g/litre fluazinam
Recommended use:	Fungicide
Manufacturer/Importer details:	AgNova Technologies NZ Ltd PO Box 301488, Albany Auckland 0752 Phone: 0800 500 599
24-hour emergency contact:	0800 CHEMCALL (0800 243622)
National Poisons Centre:	0800 POISON (0800 764766)

## Section 2: Hazard identification

	Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.
HSNO Approval:	HSR100383
Hazardous classification:	Acute inhalation toxicity Category 4, Eye irritation Category 2, Skin sensitisation Category 1, Reproductive toxicity Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.
Pictograms:	
Signal word:	<b>WARNING</b>
Hazard statements:	H332 Harmful if inhaled H319 Causes serious eye irritation H317 May cause an allergic skin reaction H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to liver and digestive organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects
Prevention statements:	P102 Keep out of reach of children P103 Read label before use. P201 Obtain special instructions before use P202 do not handle until all safety precautions have been understood P260 Do not breathe spray mist P261 Avoid breathing spray mist. P264 Wash hands, arms and face thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area  
P272 Contaminated work clothing should not be allowed out of the workplace  
P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection  
P281 Use personal protective equipment as required

Response statements: P101 IF medical advice is needed, have product container or label at hand  
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.  
P308+P313 IF exposed or concerned: Get medical advice/attention  
P314 Get medical advice/attention if you feel unwell  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse  
P391 Collect spill.

Storage statements: P405 Store locked up

Disposal statement: P501 Dispose of product and containers in accordance with local Regulations. See Section 13 for details

Additional Label Requirements: Do not apply directly into or onto water. Take all reasonable steps to ensure that Ohayo 500 SC does not cause any significant adverse effects to the environment beyond the application area.

### Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion %w/w</i>
Fluazinam	79622-59-6	39.7
Other ingredients	-	To balance

### Section 4: First-aid measures

First aid measures: If medical advice is needed, have product container or label at hand. For advice contact National Poisons Centre 0800 POISON [0800 764 766] or a doctor.

Ingestion: Do NOT induce vomiting. Rinse mouth. Call a POISON CENTRE or doctor if you feel unwell.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.

Skin contact: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice / attention.  
Take off contaminated clothing and wash it before reuse.

Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTRE or doctor if irritation persists.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.
<b>Section 5: Fire-fighting measures</b>	
Flammability:	No data available
Appropriate extinguishing media:	Water spray, polyvalent form, carbon dioxide (CO <sub>2</sub> ) or BC powder
Hazardous decomposition products:	Release of toxic fumes (HCl, HF, NO <sub>x</sub> ) by heating and burning
Special protective equipment and precautions for fire-fighters:	In the event of fire, wear positive pressure self-contained breathing apparatus (SCBA) and protective clothing Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Prevent run-off from contaminating drains, sewers or waterways. Inform appropriate authorities immediately if product or run-off enters waterways.
HAZCHEM code:	•3Z
<b>Section 6: Accidental release measures</b>	
Personal precautions:	Do not inhale mist/vapours/spray. Avoid contact with the skin, eyes and clothing. Wear protective equipment, chemical resistant coveralls, boots, gloves, eye protection. Do not touch or walk through spilled material. Stop leak when safe to do so. Exclude all bystanders from the vicinity.
Environmental precautions:	Contain spill. Prevent product entering drains or waterways by activating emergency shut-off valves or using bunding. Inform appropriate authorities immediately if spill enters sewers or waterways. Prevent chemical contaminating soil.
Procedure for clean up:	Contain and recover liquid into a suitable labelled container for disposal. Absorb residue. For small spills use suitable inert material, e.g. sand, vermiculite. Do NOT use combustible materials such as sawdust. Wash contaminated area with water, absorb and put in container for disposal. Dispose of contaminated waste at an approved facility.
<b>Section 7: Handling and storage</b>	
Safe handling:	Read label before use. Wear personal protective equipment. Do not eat, drink or smoke while handling or using. Do not breathe mist/vapours/spray. To be used only in compliance with HSNO Controls.

**Safe storage:** Keep out of reach of children. Keep container tightly closed when not in use. Store in a locked well-ventilated area away from foodstuffs, seeds, fertilisers and human/animal health products. Storage must be in accordance with the current version NZS 8409 Management of Agrichemicals

### Section 8: Exposure controls/personal protection

**Occupational exposure limits:** Not established.

**Biological limit value:** None set as of WorkSafe's 14<sup>th</sup> edition of WES and BEI values, published November 2023.

**Engineering controls:** Use with adequate ventilation, i.e. outdoors. Good industrial hygiene practice (GIHP) dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation.

**Respiratory protection:** NIOSH-approved positive pressure self-contained breathing apparatus (SCBA), positive pressure airline respirator or respirator equipped with an organic vapor cartridge.

**Hand protection:** Elbow length, chemical resistant gloves, e.g. nitrile.

**Eye protection:** Safety glasses with side shield, goggles, or face shield.

**Skin protection:** Overalls and chemical resistant boots/footwear. Disposable overalls recommended.

**General hygiene:** Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before rest breaks, meals and after work. Wash protective clothing daily after work.

**Personal Protection:** Further information on specific types of personal protective gear and related standards is available in Section 16.

### Section 9: Physical and chemical properties

(a) **Appearance:** Viscous light yellow liquid

(b) **Odour:** Weak odour

(c) **Odour threshold:** Not available

(d) **pH:** 6.0 (20°C)

(e) **Melting point/freezing point:** No data available (Fluazinam = 117°C).

(f) **Initial boiling point and boiling range:** No data available

(g) **Flash point:** None

(h) **Flammability:** Not applicable

(i) **Upper/lower flammability or explosive limits:** No data available

(j) **Vapour pressure:** No data available

(k) **Vapour density:** No data available

(l) **Relative density:** 1.25~1.27 g/cm<sup>3</sup> (at 20°C).

(m)	Solubility:	Emulsion after dilution in water (Fluazinam: 0.157 mg/L pH 7, 25°C)
(n)	Partition coefficient: n-octanol/water:	Log Pow No data available (Fluazinam = 4.03, 25°C)
(o)	Auto-ignition temperature:	None
(p)	Decomposition temperature:	No data available
(q)	Dynamic viscosity:	380mPa-s (60rpm, 20°C)
(r)	Particle characteristics:	Not applicable

#### Section 10: Stability and reactivity

Stability of the substance:	Stable under normal conditions of storage and use.
Conditions to avoid:	Contact with incompatible materials.
Incompatible materials:	Explosives (class1), oxidising gases/liquids/solids, organic peroxides.
Hazardous decomposition products:	Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides.

#### Section 11: Toxicological information

(a) Acute toxicity oral:	Not classified LD <sub>50</sub> (rat) >5000 mg/kg (male & female)
(b) Acute Dermal toxicity:	Not classified. LD <sub>50</sub> (rat) 2000 mg/kg (male & female)
(c) Acute inhalation:	Harmful if inhaled. LC <sub>50</sub> (rat) 2.17mg/L (male & female)
(d) Respiratory irritation:	Not classified
(e) Skin corrosion / irritation:	Not classified. Moderate irritant to skin (rabbit) 0.1% diluted solution: Non-irritant to skin (rabbit)
(f) Serious eye damage / irritation:	Causes serious eye irritation. Moderate irritant to eyes (rabbit) 0.1% diluted solution: Non-irritant to eyes (rabbit)
(g) Respiratory or skin sensitisation:	May cause an allergic skin reaction. Respiratory: no data available
(h) Germ cell mutagenicity:	Not classified
(i) Carcinogenicity:	Not classified
(j) Reproductive toxicity:	Suspected of damaging fertility or the unborn child
(k) Specific organ toxicity:	May cause damage to liver and digestive organs through prolonged or repeated exposure
(l) Narcotic effects:	No information
(m) Other adverse effects:	Not available
(n) Toxicological information for product:	Moderate eye irritant (rabbit) 0.1% diluted solution: Non-irritant to eyes (rabbit). Sensitizing (guinea pig). 39.5w/w% of Fluazinam (Category 2; liver, digestive organs) is included in this product, therefore Category 2 (liver, digestive organs) is triggered.

## Section 12: Ecological information

(a)	Aquatic ecotoxicity:	Very toxic to aquatic life and with long lasting effects
(b)	Soil ecotoxicity	Not classified
(c)	Terrestrial vertebrate ecotoxicity:	Not classified
(d)	Terrestrial invertebrate ecotoxicity:	Not classified
(e)	Persistence and degradability:	No data available (Fluazinam: Non-readily biodegradable in water)
(f)	Potential to be bioaccumulative:	No data available (Fluazinam: BCF 1018). Potential for concern
(g)	Mobility in soil:	Unknown
(h)	Ecotoxicological information for product:	<p>Acute aquatic toxicity:</p> <p>Carp: LC<sub>50</sub> 0.290 mg/L (96h)</p> <p>Rainbow trout: LC<sub>50</sub> 0.141 mg/L (96h)</p> <p>Daphnia magna: EC<sub>50</sub> 0.178 mg/L (48h)</p> <p>Pseudokirchneriella subcapitata: ErC<sub>50</sub> 1.4 mg/L (72h)</p> <p>Chronic aquatic toxicity:</p> <p>Fathead minnow: NOEC 0.0053 mg/L (Fluazinam)</p> <p>Daphnia magna: NOECr 0.048 mg/L (72h)</p> <p>39.5w/w% of Fluazinam (Category 1) is included in this product, therefore Category 1 is triggered</p> <p>Earthworms: Acute 14 day LC<sub>50</sub>: &gt;500 mg/kg [source: PPDB]</p> <p>Birds: <i>Colinus virginianus</i> Acute LD<sub>50</sub>: 1782 mg/kg [source: PPDB]</p> <p>Bees: <i>Apis</i> spp. Contact acute LD<sub>50</sub>: &gt;200 µg/bee</p> <p>Bees: <i>Apis</i> spp. Oral acute LD<sub>50</sub>: &gt;100 µg/bee</p>

## Section 13: Disposal considerations

Product disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service. Do not allow material to contaminate ground water system or surface water.
Container disposal:	Triple rinse container and use residue in cleaning mixture. Recycle clean, empty container through Agrecovery if possible or crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.

## Section 14: Transport information

UN number:	3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S. (FLUAZINAM)
UN class:	9
Packing group:	III
HAZCHEM:	•3Z
Marine pollutant:	YES
Special precautions:	Limited quantities, 5L

## Section 15: Regulatory information

HSNO:	Approved substance under the HSNO Act 1996.	
Substance approval number:	HSR100383	
Tolerable exposure limit / environmental exposure limit:	None set.	
HSNO controls:	See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>	
Additional controls:	Qualifications:	Yes. The person mixing or applying this product must be a 'Qualified Contractor' or a 'Qualified Person'. Any person mixing, loading or handling this product must be a 'Qualified Loader'.
	Tracking:	No
	Safety Data Sheet:	Any quantity
	Restricted to workplace only:	No
	Quantity that must be secured when unattended:	-
	Fire extinguishers	-
	Quantity for secondary containment and emergency response plan:	100 L
	Quantity for signage:	100 L
	Quantity for Location certificate:	-
	Records of use (3 kg or more applied to area within 24 hours):	Yes
	Quantity that requires management in accordance with HSW HS Regulations:	1000 L
	Hazardous Substances (Packaging) Notice 2017; Clause 9:	UN Pack Group III
Additional information:	Refer to WorkSafe for additional information on controls in the workplace; <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .	
ACVM:	Required to be registered under the Agricultural Compounds Veterinary Medicines Act 1997.	
Registration number:	P8151	
Conditions of registration:	See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a>	

## Section 16: Other information

Date of issue:	04/03/2025
Reason for reissue:	New SDS
Replaces:	Not applicable
Information references:	Supplier Safety Data Sheet/Label NZ EPA Approved hazardous substances databases. Workplace Exposure Standards and Biological Exposure Indices
Abbreviations:	ACVM: Agricultural Chemicals and Veterinary Medicines Group Bw: Bodyweight.

HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act)  
EPA: Environmental Protection Authority of New Zealand  
CAS Number: Chemical Abstracts Service Number  
LD50: Lethal Dose 50% (Population)  
LC50: Lethal Concentration 50% (Population)  
PPDB: Pesticide Properties DataBase  
SDS: Safety Data Sheet  
TEL: Tolerable Exposure Limit  
WES: Workplace Exposure Standards  
WES-STEL: Workplace exposure standards – Short-term exposure limit  
WES-TWA: Workplace exposure standards – Time-weighted average

**Personal Protection Standards:**

The following Standards provide general advice regarding safety clothing and equipment:  
Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**

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