

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Roxy 1**
 Product Use: Fungicide
 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: 9 February 2023

Section 2. Hazards Identification

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

EPA Approval No: HSR100559

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
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	H411	Toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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.
Azoxystrobin	25%	131860-33-8
1,2-ethanediol	4%	107-21-1

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse out with plenty of water. Seek medical assistance if needed.
If on Skin	Rinse skin with water/ shower. Seek medical assistance if needed.
If Swallowed	Rinse the mouth, Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. 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:	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.
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Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable, non-explosive and is non-combustible.
Hazards from combustion products	In the event of fire, the formation of carbon oxides and nitrogen oxides (NOx) may occur.
Suitable Extinguishing media	Dry chemical extinguisher, foam, carbon dioxide or water spray. Do not use water jet.
Precautions for firefighters and special protective clothing	Wear 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.

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

In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of contained wastes in accordance with the requirements of Local Authorities.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
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Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- 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).

Section 8. Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Ethylene glycol (vapour and mist) [107-21-1]		Ceiling	50	

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 APRIL 2022 13TH EDITION.

Engineering Controls

Ensure ventilation is adequate, as product is used outdoors generally natural ventilation is adequate.

Personal Protection Equipment



Eyes	Wear chemical goggles or face shield.
Skin	Wear elbow-length and chemical resistant gloves. When opening the container, preparing spray and using prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat.
Respiratory	Where insufficient ventilation, use suitable respiratory protection.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	White/beige
Odour	Almost odourless
Odour Threshold	Not available
pH	6-8
Boiling Point	> 100° C
Melting Point	Not available
Freezing Point	Not available
Flash Point	> 97°C
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure (kPa)	Not available
Vapour Density	Not available
Density	Approx – 1.12 (refer to specific batch)
Solubility	Miscible
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Octanol/Water Particle Coefficient	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal conditions of use.
Possibility of hazardous reactions	None expected when stored and handled according to the label.
Conditions to Avoid	Direct sunlight, extreme heat or cold.
Incompatible Materials	None known.
Hazardous Decomposition Products	In the event of fire, the formation of hydrogen chloride gas, carbon oxides and nitrogen oxides (NOx) may occur.

Section 11. Toxicological Information**Acute Effects:**

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Harmful if inhaled.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
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.

Toxicological Effects:

Acute toxicity – Oral :	LD ₅₀ > 5000 mg/kg (rat)
Acute toxicity - Dermal :	LD ₅₀ > 2000 mg/kg (rat)
Acute toxicity – Inhalation	LC ₅₀ 0.96 mg/l male rat (nose only)
	LC ₅₀ 0.69 mg/l female rat (nose only)

Section 12. Ecotoxicological Information

Toxic to aquatic life with long lasting effects.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Data for technical active ingredient:

Toxicity to fish:	LC ₅₀ (96 h) 1.76mg/l rainbow trout 4.20mg/l carp
Toxicity to daphnia:	EC ₅₀ (48 h) 0.83 µg/L, daphnia magna
Toxicity to algae:	EC ₅₀ (72 h) 2.2mg/L, green algae
Toxicity to birds:	LD ₅₀ >2000mg/kg mallard duck, bobwhite quail
Toxicity to bees:	Non-toxic to bees LD ₅₀ (contact) >200ug/bee
Toxicity to soil organisms:	LD ₅₀ (14d) >1000mg/kg

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Ideally the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collection of unwanted chemicals. On site disposal of the product is not acceptable.

Container Disposal: 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

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



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. (azoxystrobin 25%)
Marine Pollutant	Yes
Special Provisions	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 hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR100559

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	1000L
Emergency Response Plan (Schedule 5)	1000L
Secondary Containment (Schedule 5)	1000L
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
Location Certificate	Not required
Restrictions of use	Refer to EPA website for full control details www.epa.govt.co.nz
ACVM Registration Number (See www.foodsafety.govt.nz for registration Conditions).	P8610

Section 16. Other Information**Glossary**

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 APRIL 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
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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