

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: RhizoVital42

Item Code:

Product Use: Microbial biofertilizer, soil enhancer

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd Address: 10 Firth Street

Drury, 2113

Telephone: +64 9 294 8453 Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 1 August 2019

Section 2. Hazards Identification

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Non-hazardous ingredents	To 100	-

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. If eye irritation persists call

doctor/physician.

If on Skin Wash skin with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention.

If Swallowed Wash out mouth 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 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. Get medical advice if

breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Treatment: Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable, Non-combustible material.
Hazards from decomposition	Vapors cause coughing.
products	
Suitable	Water mist, foam, dry powder, carbon dioxide.
Extinguishing	Do not use water-jet.
media	
Precautions for	No special requirements. Avoid contact with oxidizing agents. Cool
firefighters and	closed containers with water.
special protective	
clothing	
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Use personal protective equipment as detailed in Section 8. Keep unnecessary and unprotected personnel from entering.

Collect as much as possible in a clean container for (preferable) reuse or disposal. Dispose of according to Local Regulations as detailed in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- No special precautions, just usual precautions with handling chemicals should be observed.

Precautions for Storage:

- Avoid contact with oxidizing agents.
- To maintain quality store <20°C.
- Avoid elevated temperatures.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m³ ppm mg/m³

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 (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 2017 9TH EDITION.

Engineering Controls

Ensure adequate ventilation.

Personal Protection Equipment

Eyes	Not required
Hands and	Not required
Skin	
Respiratory	Not required

Section 9 Physical and Chemical Properties

Appearance	Liquid (20°C)
Colour	Yellow-brownish
Odour	Specific earthy
Odour Threshold	Not available
pH	6.5 - 7
Boiling Point	Not available
Melting Point	Not applicable
Freezing Point	Not freezing
Flash Point	> 100 °C
Flammability	The product is not flammable.
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	< 0.1 Pa (20°C)
Vapour Density	Not available
Density	approx. 1.03 kg/L (20°C)
Solubilities	Soluble in water
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	Not applicable
Temperature	
Viscosity	12,3 mPa x s
Particle Size	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions of storage and	
	use.	
Hazardous Reactions	Not reactive.	
Conditions to Avoid	Temperature > 100°C.	
Incompatible Materials	Avoid contact with oxidizing agents.	
Hazardous Decomposition	None known.	
Products		

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 = >2000mg/kg
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.

Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	Biodegradable.
Bioaccumulation	not persistent, not bio-accumulated.
Mobility in Soil	Potential absorptiveness in the top organic soil layers and very little capacity to leach to lower layers.
Ecotoxicity	
Fish (Oncorhynchus mykiss)	96h LC50: > 100 mg product/l
Invertebrate species (Daphnia magna)	48h EC50: > 100 mg product/l
Algae (Desmodesmus subspicatus)	72h EC50: > 100 mg product/l
Aquatic plant (Lemna gibba)	07d EC50: > 100 mg product/l

Section 13. Disposal Considerations



Disposal Method:

Triple rinse and dispose according to Local Regulations.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

Section 16	Other Information
Glossary	
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
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 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

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Issue Date: 1 August 2019 Review Date: 1 August 2024