

<b>Section 1 Identification of the mixture and of the Company</b>	
1.1	Product identifier
	Product Name RhizoVital 42 Synonyms N/A
1.2	Relevant identified uses of the mixture and uses advised against
	Use of the product Plant Growth Stimulant Uses advised against N/A
1.3	Details of the supplier of the Safety Data Sheet
	Supplier Andermatt Canada Inc. Address 1350 Regent Street Fredericton, New Brunswick Canada E3C 2G6 Phone +1 (506) 444-5690 E-mail <a href="mailto:info@andermattcanada.ca">info@andermattcanada.ca</a>
1.4	Emergency Telephone Number
	Phone (medical) 1-888-226-8832
<b>Section 2 Hazards Identification</b>	
2.1	Classification of the mixture
	Not Classified; No hazardous components
2.2	Label elements
	IN THE CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Removing existing contact lenses if possible. Continue rinsing. Keep out of the reach of children. Store locked up. To avoid risks to human health and the environment, comply with the instructions for use. Contains <i>Bacillus velezensis</i> . Potential Sensitizer Potential Eye irritant
2.3	Other hazards
	This mixture does not contain any substances, which are persistent, bioaccumulative and toxic (PBT). This mixture does not contain any substance which are very persistent, and bioaccumulative (vPvB).
<b>Section 3 Composition/Information on Ingredients</b>	
3.1	Substances
	This product is a mixture
3.2	Mixtures
	<i>Bacillus velezensis</i> strain FZB42 No hazardous component.
<b>Section 4 First Aid Measures</b>	
4.1	Description of first aid measures

General Notes	Change any contaminated or wetted clothing at once. If poisoning occurs contact a doctor.
Following Inhalation	Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure. Treat symptomatically as advised.
Following skin contact	Remove contaminated clothing. Seek medical advice if irritation develops. Wash clothes before reuse. After contact with skin, wash immediately with plenty of water.
Following eye contact	Rinse thoroughly with plenty of water for several minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.
Following ingestion	No typical symptoms and affects known
Advice to physician	Treat symptomatically

4.2 Most important symptoms and effect, both acute and delayed  
No typical symptoms and effects known.

4.3 Indication of any immediate medical attention and special treatment needed.  
None.

### Section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water, Water spray, foam, carbon dioxide, Multi-purpose powder
Unsuitable extinguishing media	None known

5.2 Special hazards arising from the mixture  
None

5.3 Advice for firefighters

None

### Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use protective clothing. Do not inhale.

6.2 Environmental precautions

Prevent entry into drains, waters, sewages, etc. of the product; contact immediately the municipal technical management if the product enters such bodies.

6.3 Methods and material for containment and cleaning up

Use absorbent material to collect spillage (eg. Sawdust, peat, chemical Binder). Place contaminated absorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated absorbent. Also place used cleaning materials into closable receptacles.

6.4 Reference to other sections

See personal protective equipment under Section 8 of SDS.

### Section 7 Handling and Storage

7.1 Precautions for safe handling

Comply with instructions for use. Work only in well ventilated areas, avoid contact with eyes and skin. Wear appropriate protective equipment. Wash thoroughly with soap and water after handling. If

clothing becomes contaminated, wash thoroughly before re-use. Avoid contaminations of the surrounding areas.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in original package only. Keep container tightly closed when not in use. Protect from sunlight. When sealed, product is stable for at least 2 years at room temperature. Bioactivity may be impaired by storage above 30°C.

**7.3 Specific end use(s)**

Plant Growth Stimulant

### Section 8 Exposure controls/personal protection

**8.1 Control parameter**

The usual precautionary measures for handling chemicals should be observed.

**8.2 Exposure controls**

Eye/Face Protection

Use safety glasses

Skin Protection

Use Protective Clothing

Respirator Protection

A NIOSH approved mist filtering mask or respirator with any N-95, P-95 or R-95 filter.

Thermal Hazards

No specific recommendations

Other information

None

### Section 9 Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties**

Physical State

Slight pasty liquid

Color

brown-yellowish

Odor

Earthy

Odor Threshold

Not determined

pH

6.5-7

Melting point/freezing point

Not determined

Initial boiling point and boiling range

Not determined

Flash Point

Not determined

Evaporation Rate

Not determined

Flammability

Not flammable

Upper/Lower flammability or explosive limits

Not flammable

Vapor Pressure

Not determined

Vapor Density

Not relevant

Relative Density

1.0 kg/dm<sup>3</sup>

Solubility(ies)

Soluble

Partition coefficient: n-cotanol/water

Not determined

Auto-ignition temperature

Not determined

Decomposition temperature

Not determined

Viscosity

Not determined

Explosive Properties	Non explosive
Oxidising properties	Not determined

9.2 Other Information

None

### Section 10 Stability and Reactivity

10.1 Reactivity

Not reactive

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

None relevant

10.4 Conditions to avoid

None Known

10.5 Incompatible materials

None Known

10.6 Hazardous decomposition products

None known

### Section 11 Toxicological Information

11.1 Information of toxicological effects

Acute toxicity	Rat, oral, LD <sub>50</sub> > 25ml (of 15% suspension/kg) no adverse effects
Skin corrosion/irritation	Rat, dermal LD <sub>50</sub> 5000mg/kg b.w., no adverse effect
Serious eye damage/irritation	May cause slight temporary irritation to ocular mucous membranes.
Respiratory or skin sensitization	Rat, inhalation, LD <sub>50</sub> 1.1x10 <sup>9</sup> CFU/animal, no adverse effects
Germ cell mutagenicity	Not determined
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not existing
STOT-repeated exposure	Not existing
Aspiration hazard	Not relevant

### Section 12 Ecological Information

12.1 Toxicity

**Acute (short-term) toxicity**

Fish	<i>Oncorhynchus mykiss</i> LD <sub>50</sub> >100 mg/L (4.1x10 <sup>10</sup> cfu/g) (96h), no signs of toxicity
Crustacea	<i>Daphnia magna</i> EC <sub>50</sub> >100mg/L (4.31x10 <sup>10</sup> cfu/g) (48h), no signs of toxicity
Algae/aquatic plants	<i>Lemna gibbe</i> , EC <sub>50</sub> >100 mg/L (4.31x10 <sup>10</sup> cfu/g), no signs of toxicity
Other organisms	<i>Apis mellifera</i> L. contact, LD <sub>50</sub> > 540 µg product/bee, (4.1x10 <sup>10</sup> cfu/g), no signs of toxicity

**Chronic (long-term) toxicity**

Fish	No data available
Crustacea	No data available
Algae/aquatic plants	No data available

	Other organisms	No data available
12.2	Persistence and degradability	
	Abiotic Degradation	Not determined
	Physical and photo-chemical elimination	Not determined
	Biodegradation	Biodegrades
12.3	Bioaccumulative potential	
	Octanol/water partition coefficient (Kow)	Not determined
	Bioconcentration factor (BCF)	Not determined
12.4	Mobility in Soil	
	Known or predicted distribution to environmental compartments	Not determined
	Surface tension	Not determined
	Absorption/desorption	Not determined
12.5	Results of PBT and vPvB assessment	
		This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
12.6	Other adverse effects	
		None
12.7	Additional information	
		None

### Section 13 Disposal considerations

13.1	Waste treatment methods	
	Product/Packaging disposal	Triple-or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for use. Dispose of the container in accordance with provincial regulations. For information on disposal of unused, unwanted product, contact the supplier or the provincial regulatory agency. Contact the supplier or the provincial regulatory agency in cause of a spill, and for clean-up of spills.
	Waste codes/waste designations according to LoW	Not applicable
	Waste treatment-relevant information	None
	Sewage disposal-relevant information	Waste should not be disposed of by release to sewers
	Other disposal Recommendations	None

### Section 14 Transport Information

<b>Inland Transportation</b>	Not restricted
<b>Sea Transportation</b>	Not restricted
<b>Air Transportation</b>	Not restricted

### Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the mixture

Authorizations Not relevant

Restrictions on use Not relevant

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

### Section 16 Other Information

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for their special use of this product.

#### Indication of Changes

Date of Review

January 17, 2023

Composed by

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Andermatt Canada Inc.