



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC., 20500 TRANSCANDA HWY,
BAIE D'URFÉ, QUEBEC, H9X 0A2
CANADA

Exo Terra
Biotize
PT1989

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Section I. Product and Company Identification	
Product name	Exo Terra Biotize
CAS #	Mixture
Use	Biological cleaner for terrarium
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
Emergency	Call your local poison control center

Section II. Hazards Identification	
WHMIS	Classification
Not Classified as Hazardous Material	Not Classified as Hazardous Material

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Proprietary Blends of beneficial bacteria			

Section IV. First Aid Measures	
Eye contact	Immediately flush with copious quantities of water. If victim wear contact lenses, remove them and continue rinsing for at least 20 minutes holding lids apart to ensure flushing of the entire surface. If symptoms develop or persist seek medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water and soap. If symptoms persist or develop, seek medical attention.
Inhalation	Remove victim to fresh air. If symptoms develop or persist get medical attention.
Ingestion	Have conscious person drink several glasses of water. Do not induce vomiting. Never administrated any liquids to an unconscious or convulsing person. Seek medical attention if symptoms develop.

Section V. Fire Fighting Measures
Suitable extinguishing media
Use extinguishing media appropriate to surrounding fire conditions.
Specific hazards arising from the chemical
Closed container may rupture if exposed to excess heat or flame due to build-up of internal pressure. Move away from fire if it is safe to do so. Keep containers exposed to fire cool with water spray.
Special protective actions for fire-fighters
Wear adequate personal protection to prevent contact with material or it combustion products. Self-contained breathing apparatus operated in a pressure demand or other positive pressure mode.

Section VI. Accidental Release Measures	
Person-related safety precautions	Wear adequate personal protective equipment and clothing

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	including safety glasses, rubber gloves and rubber boots. Avoid direct contact with eyes.
Measures for environmental protection	Prevent entry into drains, waterways or sewers.
Measures for cleaning/collecting	Use an inert absorbent material such as clay, sand, earth or vermiculite. Place in closed container for disposal. Clean the spill area after product complete removal.

Section VII. Handling and Storage

Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin and clothing. After handling and before eating, drinking or smoking, wash hands and face thoroughly with soap and water. Prevent accidental contact with incompatible chemicals. Store away from incompatible materials in a cool, well-ventilated place in its original container. Keep containers hermetically sealed and in upper position. Do not reuse this container. Do not store in unlabelled container.

Section VIII. Exposure Controls and Personal Protection

Protective clothing	Apply the appropriate protective measures for safe handling of chemicals. Rubber or plastic gloves. Chemical splash goggles or face mask. Protective clothing, apron. Rubber boots. Do not wear contact lenses.
Engineering controls	General ventilation is recommended.

Section IX. Physical and Chemical Properties

Appearance (physical state, color, etc.) / Odor	Amber Liquid, with fermentation odor
Odor threshold	Data not available
pH	7.50-8.70
Melting point / Freezing point	Data not available
Initial boiling point and boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability (solid, gas)	Data not available
Upper / Lower flammability or explosive limits	Data not available
Vapor pressure	Data not available
Vapor density	Data not available
Liquid density	Data not available
% Volatile	Data not available
Specific gravity	1.125 - 1.130
Solubility	Soluble in water

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Coefficient of Water/Oil distribution	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	less than 2.5 cP

Section X. Stability and Reactivity	
Instability conditions	Stable under recommended storage conditions.
Conditions to avoid	Product is prone to bacterial contamination. Keep container closed.
Materials to avoid	None known.
Hazardous decomposition products	Under normal storage and condition of use, there should be no hazardous decomposition products.
Hazardous polymerization	None known.

Section XI. Toxicological Information	
Route of exposure	Conclusion / Remarks
Skin	No known significant effects or critical hazards.
Eye	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Mutagenicity	Not available
Carcinogenicity	Not available
Reproductive toxicity	Not available
STOT-single exposure	Not available
STOT-repeated exposure	Not available
Aspiration hazard	Not available
Acute toxicity	No known significant effects or critical hazards.
Chronic Overexposure	To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section XII. Ecological Information	
Ecotoxicity	Non hazardous to aquatic life
Mobility	Not available
Persistence and Degradability	All components are readily biodegradable (OECD 301)
Bioaccumulation potential	Not available

Section XIII. Disposal Considerations	
Disposal recommendations	Minimize waste creation. Dispose of in accordance with federal, provincial and local regulations.



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Disposal of damaged packaging	If the container contains residue of a hazardous product, follow all MSDS and label precautions even after container is emptied.
Regulatory disposal information	Data not available

Section XIV. Transport Information	
T.D.G. Classification	Not controlled

Section XV. Regulatory Information	
Not available	

Section XVI. Other information	
While the company believes the data set forth herein are accurate as the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration and verification.	

Prepared by Rolf C. Hagen Inc. (514) 457-0914	Validated: January 7 th , 2015
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