



MATERIAL SAFETY DATA SHEET

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

Exo-Terra
Electrolytes
PT-1993

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Section I. Product and Company Identification	
Product name	Exo-Terra Electrolytes
CAS #	Mixture
Use	Replenish selected electrolytes in reptile drinking water
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 controlled	Not applicable

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS #	EC #
Calcium chloride dihydrate	0.1 to 1	10035-04-8	Not applicable

Section IV. First Aid Measures	
Eye contact	Flush eyes with copious quantities of water holding lids apart to ensure flushing of the entire surface for at least 15 minutes. If irritation persists, seek immediate medical attention.
Skin contact	Remove all contaminated clothing. Wash exposed area with plenty of water and soap.
Inhalation	If inhaled remove person to fresh air. Seek medical attention if breathing is difficult.
Ingestion	Rinse mouth thoroughly with water and give one glass of water to dilute the material. Never give anything by mouth to an unconscious person. Do not induce vomiting, unless directed by medical qualified personnel. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce risk of aspiration. Seek immediate medical advice.

Section V. Fire Fighting Measures	
Suitable extinguishing media	
Use extinguishing media appropriate to surrounding fire conditions.	
Specific hazards arising from the chemical	
Water based product. Not considered to be a fire hazard. Closed container may rupture if exposed to excess heat or flame due to a built-up of internal pressure. Move containers away from fire area 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 its combustion products. Self-contained breathing apparatus with a full-face piece operated in a pressure demand or other positive pressure mode.	



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Section VI. Accidental Release Measures	
Person-related safety precautions	Apply the appropriate protective measures for safe handling of chemicals. Wear protective gloves (neoprene or other impervious glove). Wear chemical goggles or full-face piece respirator or breathing apparatus. Do not wear contact lenses.
Measures for environmental protection	Prevent entry into soil, drains, waterways or sewers.
Measures for cleaning/collecting	Isolate hazard area. Restrict access and ventilate. Contain and absorb spills or leak with suitable absorbent material. Place solid residue into drums or other appropriate containers for off-site disposal.

Section VII. Handling and Storage	
Handle in accordance with good industrial hygiene and safety practices. After handling and before eating, drinking or smoking, wash hands and face thoroughly with soap and water. Prevent accidental contact with incompatible chemicals. Store product in a closed container and in a dry and cool area between 0 and 35 °C. Store away from heat and incompatible materials.	

Section VIII. Exposure Controls and Personal Protection	
Protective clothing	Apply the appropriate protective measures for safe handling of chemicals. Wear protective gloves (Neoprene or other impervious glove). Wear chemical goggles or full-face piece respirator or breathing apparatus. Do not wear contact lenses.
Engineering controls	General ventilation is recommended.

Section IX. Physical and Chemical Properties	
Appearance (physical state, color, etc.) / Odor	Opaque white liquid
Odor threshold	Data not available
pH	5.1-5.5
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	Data not available
Vapor pressure	Data not available
Vapor density	Data not available
Liquid density	Data not available

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Data not available	Data not available
Specific gravity	1.045-1.055
Solubility	Soluble in water
Coefficient of Water/Oil distribution	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

Section X. Stability and Reactivity	
Instability conditions	Stable under recommended storage conditions.
Conditions to avoid	Open flame and heat.
Materials to avoid	Reacts violently with bromine trifluoride, or a mixture of boron trioxide and calcium oxide, Sulfuric acid yield hydrogen gas, which is corrosive, irritating and reactive.
Hazardous decomposition products	Thermal decomposition may release chlorine and calcium oxide fumes
Hazardous polymerization	Polymerize violently with methyl ether and vinyl

Section XI. Toxicological Information	
Route of exposure	Conclusion / Remarks
Skin	May be irritating with prolonged contact. Symptom may include redness, itching and swelling.
Eye	May cause moderate to severe eye irritation.
Inhalation	Inhalation of mist may cause irritation of upper respiratory tract. May cause irritation, nausea and diarrhea
Ingestion	Calcium chloride dihydrate CAS 10035-04-8 Oral (rat) LD ₅₀ 1,000 g/kg
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	Not available
Chronic Overexposure	Not available



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Section XII. Ecological Information	
Eco toxicity	Calcium chloride dihydrate CAS 10035-04-8 Lepomis macrochirus LC ₅₀ 10,650 mg/l
Mobility	Not available
Persistence and Degradability	Not available
Bioaccumulation potential	Not available

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

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: November 24 th , 2014
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