

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

Laguna	
Fertilizer Pond Spikes	
PT909 PT910 PT911	

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Page 1 of 4	
rage 1 UI 4	

Section I. Product and Company Identification		
Product name	Laguna Fertilizer Pond Spikes	
CAS#	Mixture	
Use	Control Release Fertilizer Products	
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 Controlled

Section III. Composition and Information on Ingredients			
Ingredients	Conc. (%)	CAS#	EC#
Magnesium Oxide	N.D.	1309-48-4	215-171-9
Copper Sulfate	N.D.	7758-98-7	231-847-6
Iron Sulfate Heptahydrate	N.D.	7782-63-0	231-753-5
Manganese Sulfate	N.D.	7785-87-7	232-089-9
Sodium Molybdate	N.D.	7631-95-0	231-551-7

Section IV. Fir	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 15 minutes holding lids apart to ensure flushing of the entire surface. If symptoms develop, seek medical attention.		
Skin contact	In case of contact, immediately flush ski with plenty of water. Remove the contaminated clothes and flush with plenty of water for 15 minutes. If symptoms develop, seek medical attention.		
Inhalation	Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop, seek medical attention.		
Ingestion	Rinse mouth with water. Never give anything by mouth if the victim is unconscious or convulsing. Do not induce vomiting unless instructed to do so by a physician or other competent medical personnel. Seek medical attention.		

Section V. Fire Fighting Measures

Suitable extinguishing media

Use extinguishing media appropriate to surrounding fire conditions.

Specific hazards arising from the chemical

High concentration of airborne dust has potential for explosion. Thermal decomposition my produce ammonia as well as oxides of carbon, nitrogen and other metal oxides.



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Laguna	
Fertilizer Pond	l Spikes
PT909 PT910 F	PT911

Page 2 of 4

Special protective actions for fire-fighters

Wear adequate personal protection to prevent contact with material or it combustion products including a 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 (e.g. chemical splash goggles, gloves, apron, rubber boots). Avoid direct contact with eyes. Ensure adequate ventilation.	
Measures for environmental protection	Prevent entry into drains, waterways or sewers.	
Measures for cleaning/collecting	Sweep up spills. Wear adequate personal protective equipment.	

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. Keep container dry. Do not breathe dust. Store in a cool, well-ventilated place away from incompatible materials. Keep containers tightly closed and avoid container breakage. Store in original container. Do not reuse container. Do not store in an unidentified container.

Section VIII. Exposure Controls and Personal Protection		
Protective clothing	Apply the appropriate protective measures for safe handling chemicals.	
	Rubber or plastic gloves. Chemical splash goggles and face mask.	
	Full protective clothing, Rubber boots, vapour respirator.	
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of dusts below their respective threshold limit value.	

Section IX. Physical and Chemical Properties	
Appearance (physical state, color, etc.) / Odour	Grey Granular product
Odour threshold	Data not available
рН	Data not available
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



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Laguna	
Fertilizer Pond Spikes	
PT909 PT910 PT911	

Page 3 of 4

Vapour pressure	Data not available
Vapour density	Data not available
Liquid density	Data not available
% Volatile	Data not available
Specific gravity	Data not available
Solubility	Data not available
Coefficient of Water/Oil distribution	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available

Section X. Stability and Reactivity	
Instability conditions	Stable under recommended storage conditions.
Conditions to avoid	Data not available
Materials to avoid	Data not available
Hazardous decomposition products	Thermal decomposition ammonia and oxides of carbon, nitrogen and oxides of metals.
Hazardous polymerization	No risk of dangerous polymerization.

Section XI. Toxicological Informa	tion XI. Toxicological Information	
Route of exposure	Conclusion / Remarks	
Skin	May cause skin irritation and sensitization.	
Eye	May cause eye irritation.	
Inhalation	Prolonged or excessive inhalation of dusts may cause respiratory	
Illiaiation	tract irritation. May aggravate asthma.	
Ingestion	Possible nausea, vomiting and diarrhoea	
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	See above.	
Chronic Overexposure	May cause damage to the central nervous system and / or affect	
Cili Oilic Overexposure	lungs, liver or kidney	

Section XII. Ecological Information	
Ecotoxicity	Not available
Mobility	Not available
Persistence and Degradability	Not available



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Laguna	
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PT909 PT910 PT911	

Page 4 of 4

Section XIII. Disposal Considerations	
Disposal recommendations	Dispose of in accordance with federal, provincial and local regulations. Whenever possible, prevent or minimize the amount of waste generated.
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		n
	T.D.G. Classification	Not classified

Section XV. Regulatory Information

Magnesium Oxide CAS 1309-48-4 TWA 10mg/m³ ACGIH (TLV)

Copper Sulfate CAS 7758-98-7 TWA 1mg/m³ ACGIH (TLV)

Iron Sulfate Heptahydrate CAS 7782-63-0 TWA 1mg/m³ ACGIH (TLV)

Manganese Sulfate CAS 7785-87-7 TWA 5mg/m³ ACGIH (TLV)

Sodium Molybdate CAS 7631-95-0 TWA 5mg/m³ ACGIH (TLV)

Section XVI. Other information

KEEP OUT OF REACH OF CHILDREN

NITRATE CONTAINING SUBSTANCES, SUCH AS THIS PRODUCT, ARE POTENTIAL ALLERGEN,

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. Validated: April 13th, 2015 (514) 457-0914