



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC. 20500 TRANSCANADA HWY
BAIE D'URFÉ, QUÉBEC H9X 0A2

Laguna
Plant Grow
PT866

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Section I. Product identification and uses	
Product name	Laguna Plant Grow
CAS #	Mixture
Use	Pond Fertilizer
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
Emergency	Call your local Poison Control Centre

Section II. Composition and information on ingredients					
Ingredients	Conc. (%)	CAS #	TLV	LD50	LC50
Proprietary mixture	100%				

Section III. Hazardous ingredients		
WHMIS	Classification	Transport of dangerous goods
Not controlled	Not Classified	Not controlled

Section IV. Physical data	
Physical state and appearance/Odour	Brown Liquid
pH	4.3 – 7.7
Percent volatile	Not available
Freezing point	32F (0 ° C)
Boiling point	Not available
Specific gravity	1.065-1.070
Vapour density	Not available
Vapour pressure	Not available
Evaporation rate	Not available
Solubility	Soluble in water

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Section V. Fire and explosion data		
Flammability conditions		
Water based product. Non flammable. If heated beyond dryness, may liberate potassium oxides and chlorine fumes		
Means of extinction		
Does not burn. Use extinguishing media appropriate for surrounding fire.		
Procedures in case of a fire		
Immediately evacuate personnel to safe area. Fire fighters should wear full protective clothing, including self-contained breathing apparatus with full face piece operated in positive pressure mode. Fight fire from safe distance. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water course.		
Hazardous combustion materials		
Carbon oxides, potassium oxides and other irritant gas which may include toxic constituent.		
Flash point	Flammable limit (%volume)	Auto-ignition temperature
Not available	Minimum	Not available
	Not available	
	Not available	Not available

Section VI. Reactivity data	
Stability	Stable under normal conditions, will not polymerize
Incompatibility	Open flame and heat, avoid strong oxidizing agent
Reaction products	None known
Hazardous decomposition products	None known. Refer to hazardous combustion materials.

Section VII. Toxicological properties	
Route of Entry	Eye, skin, digestive system
Effects of acute	Dermal irritant, toxic by ingestion.
Eye	May cause moderate to severe eye irritation.
Skin	May cause mild skin irritation on prolonged contact. Symptom may include redness, itching and swelling.
Inhalation	If mists are formed, inhalation may cause moderate irritation of the nose, throat and respiratory tract. Symptom may include coughing, chest pain and shortness of breath.
Ingestion	Swallowing may cause gastrointestinal ulceration, nausea and vomiting, cardiovascular complication. These effects may be enhanced in the elderly and those with impaired renal function.
Effects of chronic overexposure	No specific information is available concerning chronic exposure to this mixture.

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Section VIII. First aid measures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persist, seek immediate attention/advice.
Skin contact	Remove/Take off immediately all contaminated clothing. Wash exposed area thoroughly with soap and water for at least 15 minutes. If irritation persists, seek prompt medical attention.
Inhalation	Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
Ingestion	Seek immediate medical attention/advice. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. 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.
Note For Physicians	Treat symptomatically

Section IX. Preventive measures	
Protective clothing in case of spill and leak	Safety goggles, impervious gloves and apron should be worn. An eye wash station and safety shower should be made available in the immediate working area. Other equipment may be required depending of the workplace standards.
Spill and leak	Evacuate personnel from spill area. Restrict access to area until completion of clean-up. Remove all source of ignition. Provide adequate ventilation. Stop spill at source if it is safe to do so. Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike area to prevent spreading. Contain and absorb spilled liquid with non-combustible inert absorbent material, than place absorbent into a container for later disposal.
Waste disposal	According to local, provincial, federal regulations.

Section X. Handling and Storage	
Handle in accordance to good industrial hygiene and safety practice.	

Section XI. Protective measures	
Protective clothing	Refer to Section IX – Protective clothing in case of spill and leak.
Engineering controls	Use general or local exhaust ventilation.

Section XII. Disposal considerations	
Product recommendation	None available



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Unclean package
recommendation

According to local, provincial, federal regulations.

Section XIII. Ecological Information

The ecological characteristic of this product have not been fully investigated. The product should not be allowed to enter drains, or water course, or be deposited where it can affect ground or surface waters.

Section XIV. Other information

None available

Prepared by Rolf C. Hagen Inc.
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