



MATERIAL SAFETY DATA SHEET

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

Fluval

Bio Enhancer

A8346 A8348 A8349 A8351 A8352

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Section I. Product identification and uses

Product name	Bio Enhancer
CAS #	Mixture
Use	Biotechnological treatment for reduction of organic matter.
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
Bacterial suspension					

Section III. Hazardous ingredients

WHMIS	Classification	Transport of dangerous goods
Not regulated	Not applicable	Not regulated

Section IV. Physical data

Physical state and appearance/Odour	Clear liquid
pH	7.0 - 8.0
Percent volatile	Not available
Freezing point	32° F (0°C)
Boiling point	Not available
Specific gravity	1.003 -1.007
Vapour density	As water
Vapour pressure	As water
Evaporation rate	As water
Solubility	Soluble in water

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Section V. Fire and explosion data		
Flammability conditions	Non flammable.	
Fire extinguishing procedures	Does not burn. Use extinguishing media appropriate for surrounding fire.	
Fire and explosion hazards	Not applicable	
Fire degradation products	Not applicable	
Flash point	Flammable limit (%volume)	Auto-ignition temperature
Not available	Minimum	Maximum
	Not available	Not available

Section VI. Reactivity data	
Stability	Stable under normal conditions. Avoid high and freezing temperatures and contamination. Excess air contact reduces shelf life of bacteria.
Incompatibility	Not available
Reaction products	Product does not polymerize.
Hazardous decomposition products	Not available

Section VII. Toxicological properties	
Route of Entry	Absorbed through inhalation and ingestion.
Effects of acute	Not available
Eye	Not available
Skin	Non corrosive
Inhalation	Non-hazardous
Ingestion	May cause slight diarrhoea.
Effects of chronic overexposure	Not available

Section VIII. First aid measures	
Eye contact	Immediately flush eye with large amount of running water for at least 15 minute, keeping eyelids open.
Skin contact	Wash with soap and water.
Inhalation	Not applicable
Ingestion	Non dangerous in case of ingestion. Drink a few glasses of fresh water to avoid any sensation of mucus irritation.

Section IX. Preventive measures
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Protective clothing in case of spill and leak	Safety glasses are recommended. Wear impervious protective clothing.
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Spill and leak	Wash with water. Can be flushed into sewer or water courses.
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Waste disposal	Flush to any disposal system.
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Section X. Handling and Storage

Avoid freezing. Store away from high temperature, over 50°C.

Section XI. Protective measures

Protective clothing	Chemical safety goggles. Wear impervious protective clothing.
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Engineering controls	None
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Section XII. Disposal considerations

Product recommendation	Dispose of in accordance with federal, provincial and local regulations.
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Unclean packaged recommendation	Empty containers may be recycled or discarded as general trash.
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Section XIII. Ecological Information

Not available

Section XIV. Other information

Special precaution or comments	For shipping, this product is not regulated by TGD. Maintain good personal hygiene after handling.
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Prepared by Rolf C. Hagen Inc.
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