



MATERIAL SAFETY DATA SHEET

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

Fluval

Bio Cleaner

A8353, A8354, A8355, A8356, A8357

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Section I. Product identification and uses

Product name	Fluval Bio Cleaner
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	1.127
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	Not available	

Section VI. Reactivity data

Stability	Stable under normal conditions. Avoid high 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	Slightly irritant in case of eye contact.
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	No known effect.
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

Protective clothing in case of spill and leak	Safety glasses are recommended.
Spill and leak	Wash with water. Can be flushed into sewer or water courses.
Waste disposal	Dispose according to local and regional authority requirements.



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Section X. Handling and Storage

Store away from high temperature, over 50°C. Avoid contact with open wounds and eyes.

Section XI. Protective measures

Protective clothing Chemical safety goggles. Wear impervious protective clothing.

Engineering controls None

Section XII. Disposal considerations

Product recommendation Dispose of in accordance with federal, provincial and local regulations.

Unclean packaged recommendation Empty containers may be recycled or discarded as general trash.

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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Validated January 31st, 2013

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