



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC. 20500 Trans Canada Hwy
Baie d'Urfé, Quebec H9X 0A2
CANADA

Fluval Technical
Opticarb
A1504

Section I. Product identification and uses		Section II. Hazardous ingredients
Product name	Fluval Opticarb	This product does not contain hazardous ingredients.
Chemical formula	Mixture	
Chemical family	Mixture	
Material uses	Water Filtraton (Activated Carbon)	

Section III. Physical data	
Physical state and appearance/Odour	Odourless black granules
pH	Not applicable
Percent volatile	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable
Specific gravity	Not applicable
Vapour density	Not applicable
Vapour pressure	Not applicable
Evaporation rate	Not applicable
Solubility	Insoluble in water

Section IV. Fire and explosion data
<p>Activated carbon is difficult to ignite and tends to burn slowly, smouldering without producing smoke or flame. Toxic gases will form upon combustion.</p> <p>Combustion products may include smoke and oxides of carbon. Materials allowed to smoulder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit. Under certain conditions, any airborne dust may be an explosion hazard. Used activated carbon may produce additional combustion products.</p>



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Section V. Reactivity data

This product is stable under the specified conditions of storage, shipment and use. Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.

Section VI. Toxicological properties

Routes of entry

Effects of acute	None documented
Eye	Not corrosive, but like most particulate materials, may cause mild physical irritation.
Skin	Not corrosive and not a primary skin irritant. Mild irritation is possible due to abrasive action of dust.
Inhalation	Possible mild irritation of respiratory tract due to drying and abrasive actions of dust.
Ingestion	No known deleterious effects.
Effects of chronic overexposure	Not listed.

Section VII. First aid measures

Eye contact	Flush with copious amounts of water. Seek medical attention if irritation occurs.
Skin contact	Wash material off the skin with soap and water. Seek medical attention if irritation occurs.
Inhalation	Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.
Ingestion	Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.



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Section VIII. Preventive measures

Protective clothing in case of spill and leak

Safety glasses with slide shields. Wear appropriate dust resistant clothing.

Spill and leak

Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from material from eyes, skin and clothing.

Waste disposal

Spent granular activated carbon may be recyclable. Dispose of unused carbon in a facility permitted for non-hazardous wastes. Used carbon should be disposed of in accordance with applicable laws.

Storage and handling

Store product in a closed dry container. Maintain good housekeeping. Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. Follow good handling and housekeeping practises to minimize spills, generation of airborne dusts and accumulation of dusts on exposed surfaces.

Section IX. Protective measures

Protective clothing

Safety glasses with slide shields. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse.

Engineering controls

Section X. Other information

Special precautions or comments

Prepared by Rolf C. Hagen Inc.
(514) 457-0914

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