



MATERIAL SAFETY DATA SHEET

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

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| Fluval |
| Betta Enviro-Clean |
| A8376 |

| Section I. Product and Company Identification | |
|---|---|
| Product name | Fluval Betta Enviro-Clean |
| CAS # | Mixture |
| Use | Biological cleaner for aquarium |
| 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 Classified as Hazardous Material | Not Classified as Hazardous Material |

| Section III. Composition and Information on Ingredients | | | |
|---|-----------|-------|------|
| Ingredients | Conc. (%) | CAS # | EC # |
| Proprietary Blends of beneficial bacteria | | | |

| 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 20 minutes holding lids apart to ensure flushing of the entire surface. If symptoms develop or persist seek medical attention. |
| Skin contact | Remove the contaminated clothes and flush with plenty of water and soap. If symptoms persist or develop, seek medical attention. |
| Inhalation | Remove victim to fresh air. If symptoms develop or persist get medical attention. |
| Ingestion | Have conscious person drink several glasses of water. Do not induce vomiting. Never administrated any liquids to an unconscious or convulsing person. Seek medical attention if symptoms develop. |

| Section V. Fire Fighting Measures | |
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| Suitable extinguishing media | |
| Use extinguishing media appropriate to surrounding fire conditions. | |
| Specific hazards arising from the chemical | |
| Closed container may rupture if exposed to excess heat or flame due to build-up of internal pressure. Move away from fire if it is safe to do so. Keep containers exposed to fire cool with water spray. | |
| Special protective actions for fire-fighters | |
| Wear adequate personal protection to prevent contact with material or it combustion products. Self-contained breathing apparatus operated in a pressure demand or other positive pressure mode. | |

| Section VI. Accidental Release Measures | |
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| Person-related safety precautions | Wear adequate personal protective equipment and clothing |



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| | including safety glasses, rubber gloves and rubber boots. Avoid direct contact with eyes. |
| Measures for environmental protection | Prevent entry into drains, waterways or sewers. |
| Measures for cleaning/collecting | Use an inert absorbent material such as clay, sand, earth or vermiculite. Place in closed container for disposal. Clean the spill area after product complete removal. |

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. Prevent accidental contact with incompatible chemicals. Store away from incompatible materials in a cool, well-ventilated place in it original container. Keep containers hermetically sealed and in upper position. Do not reuse this container. Do not store in unlabelled container.

Section VIII. Exposure Controls and Personal Protection

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| Protective clothing | Apply the appropriate protective measures for safe handling of chemicals. Rubber or plastic gloves. Chemical splash goggles or face mask. Protective clothing, apron. Rubber boots. Do not wear contact lenses. |
| Engineering controls | General ventilation is recommended. |

Section IX. Physical and Chemical Properties

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| Appearance (physical state, color, etc.) / Odor | Amber Liquid, with fermentation odor |
| Odor threshold | Data not available |
| pH | 7.50-8.70 |
| 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 |
| Vapor pressure | Data not available |
| Vapor density | Data not available |
| Liquid density | Data not available |
| % Volatile | Data not available |
| Specific gravity | 1.125 - 1.130 |
| Solubility | Soluble in water |



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| Coefficient of Water/Oil distribution | Data not available |
| Auto-ignition temperature | Data not available |
| Decomposition temperature | Data not available |
| Viscosity | less than 2.5 cP |

| Section X. Stability and Reactivity | |
|--|---|
| Instability conditions | Stable under recommended storage conditions. |
| Conditions to avoid | Product is prone to bacterial contamination. Keep container closed. |
| Materials to avoid | None known. |
| Hazardous decomposition products | Under normal storage and condition of use, there should be no hazardous decomposition products. |
| Hazardous polymerization | None known. |

| Section XI. Toxicological Information | |
|--|---|
| Route of exposure | Conclusion / Remarks |
| Skin | No known significant effects or critical hazards. |
| Eye | No known significant effects or critical hazards. |
| Inhalation | No known significant effects or critical hazards. |
| Ingestion | No known significant effects or critical hazards. |
| 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 | No known significant effects or critical hazards. |
| Chronic Overexposure | To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated. |

| Section XII. Ecological Information | |
|--|---|
| Ecotoxicity | Non hazardous to aquatic life |
| Mobility | Not available |
| Persistence and Degradability | All components are readily biodegradable (OECD 301) |
| Bioaccumulation potential | Not available |

| Section XIII. Disposal Considerations | |
|--|---|
| Disposal recommendations | Minimize waste creation. Dispose of in accordance with federal, provincial and local regulations. |



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| 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 |

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| Section XIV. Transport Information | |
| T.D.G. Classification | Not controlled |

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| Section XV. Regulatory Information | |
| Not available | |

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| Section XVI. Other information | |
| 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. | |

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| Prepared by Rolf C. Hagen Inc. (514) 457-0914 | Validated: January 7 th , 2015 |
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