

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

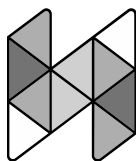
| |
|----------------------------------|
| Brand: Fluval / AquaClear |
| Trade Name: Zeo-Carb |
| |

| Section 1. Product and company Information | |
|--|---|
| Product Name | Zeo-Carb |
| Product Code | A599/A606/A614/A619/A624/A1400/A1402/A1404/A1406 A1490/A1492/A1493/14017/14018/14019 |
| Recommended Use and restrictions on Use | Ammonia removal in Aquaria Chemical Water Filtration |
| Supplier | Rolf C. Hagen Inc., 20500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2 Canada |
| Emergency Telephone Number | Call your local poison control center |

| Section 2. Hazard Identification | |
|----------------------------------|--|
| Classification | Not applicable |
| GHS Label Elements | Hazard Pictograms: N/a Signal Word: N/a Hazard Statements: N/a Precautionary Statement(s):N/a Storage: Store in cool, well-ventilated area. Disposal: N/a |
| Other Hazards | None known. |

| Section 3. Composition and Information on Ingredients | | | |
|--|--|--------------------------------------|---------------------------------------|
| Chemical Name; Hydrated Calcium Aluminosilicate, of sedimentary origin. Granulated Activated Carbon | CAS # Natural Zeolite 1318-02-1 Clinoptilolite 12173-10-3 Activated Carbon 64365-11-3 | Concentration (%) 90->100% | EC # 215-283-8 264-846-4 |
| To the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with hazardous Products Regulation (HPR). | | | |

| Section 4. First-Aid Measures | |
|---|---|
| Inhalation | In case of large spill, remove from dusty area to fresh air. If not breathing give artificial respiration. Contact medical attention if cough or respiratory symptoms develop |
| Skin Contact | Wash with soap and water. Get medical attention if irritation develops. |
| Eye Contact | Flush eye with large amount of running water. Get medical attention if irritation develops. |
| Ingestion | Give one or two glass of water to drink. Contact medical attention if gastrointestinal symptoms develop. |
| Most Important Symptoms and Effects, Acute and Delayed | Inhalation: Non-irritating. Skin contact: Mild irritation is possible due to abrasive action of dust. Eye contact: May cause physical irritation. Ingestion: Possible mild irritation of respiratory tract due to drying. Nonn-Toxic |



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

| |
|----------------------------------|
| Brand: Fluval / AquaClear |
| Trade Name: Zeo-Carb |
| |

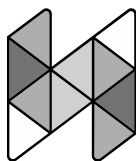
| | |
|--|---|
| Immediate Medical Attention and Special Treatment | Specific treatments: Treat according to symptoms. Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. |
|--|---|

| Section 5. Fire-Fighting Measures | |
|---|---|
| Suitable Extinguishing Media | Uitable extinguishing media |
| Unsuitable Extinguishing Media | Use extinguishing media appropriate to surrounding fire conditions. |
| Specific Hazards Arising from the Product | Not applicable |
| Hazardous combustion products | Not applicable |
| Special Protective Equipment and Precautions for Fire-Fighters | Not applicable |

| Section 6. Accidental Release Measures | |
|---|--|
| Personal Precautions, Protective Equipment, and Emergency Procedures | Wear rubber gloves and boots. Safety glasses are recommended to reduce skin contact. Wear approved respirators |
| Environmental Precautions | No toxic effects. Clean up and recover as suitable. |
| Methods for Containment and Cleaning Up | Dispose according to local and regional authority requirements. |

| Section 7. Handling and Storage | |
|--------------------------------------|---|
| Precautions for Safe Handling | Wash thoroughly after handling. |
| Conditions for Safe Storage | Store dry at ambient temperature away from food and beverages. Avoid contact with eyes and skin |

| Section 8. Exposure Controls and Personal Protection | | | | | | |
|--|--|------|----------|------|-------------|--------------------|
| Control Parameters | | | | | | |
| Chemical Name | ACGIH® TLV® | | OSHA PEL | | AIHA® WEEL™ | |
| | TWA | STEL | TWA | STEL | 8-hr TWA | Short-term TWA [C] |
| Appropriate Engineering Controls | Non volatile | | | | | |
| Individual Protection Measures | Eye/Face Protection: Safety glasses are recommended Skin Protection: Rubber/cloth/plastic gloves are recommended Respiratory Protection: It is recommended to wear a qualified mask | | | | | |



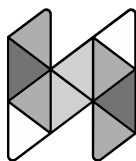
ROLF C. HAGEN INC., 20500 TRANSCANDA HWY,
BAIE D'URFÉ, QUEBEC, H9X 0A2
CANADA

| |
|----------------------------------|
| Brand: Fluval / AquaClear |
| Trade Name: Zeo-Carb |
| |

| Section 9. Physical and Chemical Properties | |
|---|--|
| Appearance, Physical State and Colour | Solid; granular grey with crushed chip/ Odourless black granular material |
| Odour | Tasteless |
| Odour Threshold | Non volatile |
| pH | 8.1 |
| Melting Point and Freezing Point | >1.000 deg C |
| Initial Boiling Point and Boiling Range | Non volatile |
| Flash Point | Non volatile |
| Evaporation Rate | Non volatile |
| Flammability (solid, gas) | Non volatile |
| Upper and Lower Flammability or Explosive Limit | Non volatile |
| Vapour Pressure | Non volatile |
| Vapour Density (air = 1) | Non volatile |
| Relative Density (water = 1) | Non volatile |
| Solubility in Water | Insoluble in water |
| Solubility in Other Liquids | Non volatile |
| Partition Coefficient, n-Octanol / Water (Log Kow) | Non volatile |
| Auto-Ignition Temperature | Non volatile |
| Decomposition Temperature | Non volatile |
| Viscosity | Non volatile |

| Section 10. Stability and Reactivity | |
|---|---|
| Reactivity | Stable under normal conditions. |
| Chemical Stability | Avoid contact with strong acids / alkali. |
| Possibility of Hazardous Reactions | Non volatile |
| Conditions to Avoid | Avoid contact with strong acids / alkali. |
| Incompatible Materials | Product does not polymerize. |
| Hazardous Decomposition Products | Non volatile |

| Section 11. Toxicological Information | |
|--|---|
| Likely Routes of Exposure | Non volatile |
| Acute Toxicity | |
| LC50 | Non volatile |
| LD50 (oral) | Non volatile |
| LD50 (dermal) | Non volatile |
| TWA | Non volatile |
| Skin Corrosion / Irritation | Mild irritation is possible due to abrasive action of dust. Non-corrosive |
| Serious Eye Damage / Irritation | Flush eye with large amount of running water. Get medical attention if irritation develops. Non-corrosive |
| STOT (Specific Target Organ Toxicity) - Single Exposure | Non volatile |
| Aspiration Hazard | Non volatile |



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

| |
|----------------------------------|
| Brand: Fluval / AquaClear |
| Trade Name: Zeo-Carb |
| |

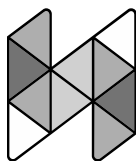
| | | | | |
|--|---|---------------|-------------|------------|
| STOT (Specific Target Organ Toxicity) - Repeated Exposure | Non volatile | | | |
| Respiratory and/or Skin Sensitization | In case of large spill, remove from dusty area to fresh air. If not breathing give artificial respiration. Contact medical attention if cough or respiratory symptoms develop | | | |
| Other Injuries/Symptoms | Non volatile | | | |
| Carcinogenicity | | | | |
| Chemical Name | IARC | ACGIH® | OSHA | NTP |
| Reproductive Toxicity | | | | |
| Development of Offspring | Non volatile | | | |
| Sexual Function and Fertility | Non volatile | | | |
| Effects on or via Lactation | Non volatile | | | |
| Germ Cell Mutagenicity | Non volatile | | | |
| Interactive Effects | Non volatile | | | |

| | |
|---|--------------|
| Section 12. Ecological Information | |
| Ecotoxicity | Non volatile |
| Persistence and Degradability | Non volatile |
| Bioaccumulative Potential | Non volatile |
| Mobility in Soil | Non volatile |
| Other Adverse Effects | Non volatile |

| | |
|--|--|
| Section 13. Disposal Considerations | |
| Disposal Recommendations | Dispose of in accordance with federal, provincial and local regulations. Avoid release to the environment. |
| Disposal of damaged packaging | Follow all SDS and label precautions even after container is emptied. |

| | | | | |
|--|---------------|-----------------------------|---|----------------------|
| Section 14. Transport Information | | | | |
| Regulation | UN No. | Proper Shipping Name | Transport Hazard Class (es) | Packing Group |
| Canada TDG | | | | |
| US DOT | | | Datos no regulados | |
| IATA | | | No restringido por la disposición especial A3 | |
| IMDG | | | | |

| | |
|---|---|
| Section 15. Regulatory Information | |
| Safety, Health and Environmental Regulations | Canada |
| | Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL) |
| | USA |

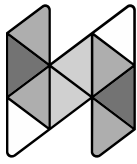


ROLF C. HAGEN INC., 20500 TRANSCANDA HWY,
BAIE D'URFÉ, QUEBEC, H9X 0A2
CANADA

| |
|----------------------------------|
| Brand: Fluval / AquaClear |
| Trade Name: Zeo-Carb |
| |

| | |
|--|--|
| | <p>Toxic Substances Control Act (TSCA) Section 8(b): Not Listed Zeolite</p> <p>SARA 302 Components: N/a SARA 313 Components: N/a SARA 311/312 Hazard: N/a</p> <p>Activated Carbon</p> <p>WHIMIS 2015 Classification; D.2.B This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.</p> <p>Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):All ingredients were verified for inclusion on either the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).</p> <p>CEPA - National Pollutant Release Inventory (NPRI)</p> <p>USA</p> <p>Toxic Substances Control Act (TSCA) Section 8(b)</p> <p>Clean Water Act:</p> <p>SARA 302 Components; This product does not contain any chemicals subject to SARA Title III Section 302.</p> <p>SARA 313 Components; This product does not contain a chemical that is listed in Section 313 at or above de minimis concentrations.</p> <p>SARA 311/312 Hazard: This product meets the following SARA Title III Section 311/312 categorizations: Acute Hazard</p> <p>California Proposition 65 Components: This product does not contain any Proposition 65 chemicals</p> |
|--|--|

| Section 16. Other information | | | | | | | | | | | | | | | | | |
|---|---------------------|--------|---|--------------|---|-----------------|---|---------------------|--|---|---------------|---|-------------|---|------------|---|-----------------|
| <p>HMIS RATINGS</p> <table border="1"> <tr> <td style="text-align: center;">0</td> <td style="background-color: blue; color: white;">HEALTH</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="background-color: red; color: white;">FLAMMABILITY</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="background-color: orange; color: white;">PHYSICAL HAZARD</td> </tr> <tr> <td style="text-align: center;">0</td> <td>PERSONAL PROTECTION</td> </tr> </table> | 0 | HEALTH | 1 | FLAMMABILITY | 0 | PHYSICAL HAZARD | 0 | PERSONAL PROTECTION | <p>NFPA RATINGS</p> <table border="1"> <tr> <td style="text-align: center;">0</td> <td style="background-color: blue; color: white;">HEALTH HAZARD</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="background-color: red; color: white;">FIRE HAZARD</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="background-color: yellow; color: black;">REACTIVITY</td> </tr> <tr> <td style="text-align: center;">0</td> <td>SPECIFIC HAZARD</td> </tr> </table> | 0 | HEALTH HAZARD | 1 | FIRE HAZARD | 0 | REACTIVITY | 0 | SPECIFIC HAZARD |
| 0 | HEALTH | | | | | | | | | | | | | | | | |
| 1 | FLAMMABILITY | | | | | | | | | | | | | | | | |
| 0 | PHYSICAL HAZARD | | | | | | | | | | | | | | | | |
| 0 | PERSONAL PROTECTION | | | | | | | | | | | | | | | | |
| 0 | HEALTH HAZARD | | | | | | | | | | | | | | | | |
| 1 | FIRE HAZARD | | | | | | | | | | | | | | | | |
| 0 | REACTIVITY | | | | | | | | | | | | | | | | |
| 0 | SPECIFIC HAZARD | | | | | | | | | | | | | | | | |
| Key to abbreviations | | | | | | | | | | | | | | | | | |



HAGEN
GROUP®
www.hagen.com

SAFETY DATA SHEET

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

Brand: Fluval / AquaClear

Trade Name: Zeo-Carb

Page 6 of 6

ACGIH® = American Conference of Governmental Industrial Hygienists. **TLV®** = Threshold Limit Value. **TWA** = Time-Weighted Average. **STEL** = Short-term Exposure Limit. **OSHA** = US Occupation Safety and Health Administration. **PEL** = Permissible Exposure Limits. **AIHA®** = AIHA Guideline Foundation. **WEEL™** = Workplace Environmental Exposure Limit. **IARC** = International Agency for Research on Cancer. **NTP** = National Toxicology Program.

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.

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

Validated: 2024/02/09