



MATERIAL SAFETY DATA SHEET

AF SERIES FLUORIDE REMOVAL CARTRIGE

Product Name: AF-10-3690, AF-20-3690, AF-10-3690-BB, AF-20-3690-BB

Aluminum Oxide Based Adsorbent

Effective Date: 01/02/12

1. Company Information:

Company Address:

Aries Filterworks
1 ResinTech Plaza
160 Cooper Road
West Berlin, NJ 08091 USA

Information Numbers:

Phone Number: 856-768-9600
Fax Number: 856-768-9601
Email: aries@resintech.com
Website: www.ariesfilterworks.com

2. Ingredients:

Alumina, activated

CAS# 1333-84-2 (90 - 100%)

Silicon Dioxide

CAS # 99439-28-8 (0 - 10%)

This document is prepared pursuant to the OSHA Hazard Communication Standard (29CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

3. Physical/Chemical Data:

Boiling Point:

Not Applicable

Vapor Pressure (MM HG):

Not Applicable

Evaporation Rate (water = 1):

1

Appearance & Odor:

Off-white, crystalline or gelatinous granules. No odor.

Specific Gravity:

3.2 (water = 1)

Melting Point (deg. F)

Not applicable

Solubility in Water:

Insoluble

Vapor Density:

Not Applicable

Product Hazard Rating	Scale
Toxicity = 0	0 = Negligible
Fire = 0	1 = Slight
Reactivity = 0	2 = Moderate
Special - N/A	3 = High
	4 = Extreme

4. Fire & Explosion Hazard Data

Unusual Fire & Explosion Hazards:

None

Combustion Products:

None

Extinguishing Media:

N/A

Special Fire Fighting Procedures:

N/A



AF Series Fluoride Removal Cartridge

5. Reactivity Data

Stability:	Stable
Storage:	Store in a cool dry place

6. Health Hazards & Sara (Right to Know)

Emergency First Aid Procedures:	Contact with eyes can and skins can cause irritation.
Skin Absorption:	Skin absorption is unlikely due to physical properties.
Inhalation:	Vapors are unlikely due to physical properties.
Systemic & Other Effects:	No specific data available, however, repeated exposures are not anticipated to cause any significant adverse effects.
Carcinogenicity:	Not Applicable
Sara – title 3, sections 311 & 312:	All ingredients are non-hazardous

7. First Aid

Eyes:	Irrigate immediately with water for at least 5 minutes. Mechanical irritation only.
Skin:	No adverse effects anticipated by this route of exposure.
Ingestion:	No adverse effects anticipated by this route of exposure incidental to proper industrial handling.
Inhalation:	No adverse effects anticipated by this route of exposure.

8. Control Measures

Respiratory protection:	Not required for normal uses if irritation occurs from breathing-get fresh air!
Eye protection:	Splash goggles
Ventilation:	Normal
Protective Gloves:	Not required.

9. Safe handling procedures

In Case of Spills:	Sweep up material and transfer to containers. Use caution – the floor will be slippery!
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AF Series Fluoride Removal Cartridge

Disposal Method:

Bury resin in licensed landfill or burn in approved incinerator according to local, state, and federal regulations. For resin contaminated with hazardous material, dispose of mixture as hazardous material according to local, state and federal regulations.

10. Additional Information:

Special precautions to be taken in handling and storage:

Practice reasonable care and caution. Metal equipment should be compatible with feed, regenerant, resin form, and effluent of that process.

TSCA Considerations:

Every different salt or ionic form of an ion-exchange resin is a separate chemical. If you use an ion-exchange resin for ion-exchange purposes and then remove the by-product resin from its vessel or container prior to recovery of the original or another form of the resin or of another chemical, the by-product resin must be listed on the TSCA Inventory (unless an exemption is applicable). It is the responsibility of the customer to ensure that such isolated, recycled by-product resins are in compliance with TSCA. Failure to comply could result in substantial civil or criminal penalties being assessed by the Environmental Protection Agency.

MSDS Status:

Canadian regulatory information added.

11. Regulatory Information: (Not meant to be all-inclusive—selected regulations represented.)

Notice:

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

**Canadian Regulations:
WHMIS Information:**

The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is not a "Controlled Product" under WHMIS.

Canadian TDG Information:

For guidance, the Transportation of Dangerous Good Classification for this product is: Not regulated