

Safety Data Sheet

Product Name: AF-xx-3610, AF-xx-3610-BB

(Nitrate Removal Cartridge) Effective March 2015

Section 1: Identification

1a Product Name AF-10-3610, AF-20-3610, AF-10-3610-BB, AF-20-

3610-BB

1b Common Name Nitrate Removal Cartridge

1c Intended use Removal of nitrates and perchlorate from water.

1d Manufacturer Aries FilterWorks

Address 117 Jackson Road,

West Berlin, NJ 08091 USA

Phone 856-626-1550

Email info@ariesfilterworks.com

Section 2: Hazard Identification

2a Osha Hazard classification Not hazardous or dangerous

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

2b Product description Light cream to light yellow colored solid beads

with little or no odor.

2c Precautions for use Safety glasses and gloves recommended.

Slipping hazard if spilled.

2c Potential health effects Will cause eye irritation.

May cause mild skin irritation.

Ingestion is not likely to pose a health risk.

2d Environmental effects Little or none.

Section 2A: Hazard classification UN OSHA globally harmonized system



WARNING

(contains ion exchange resin)

H320: Causes eye irritation (Category 2B)

Precautionary Statements

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do – continue rinsing.

P333+313: If skin irritation or a rash occurs: Get medical advice/attention.

P337+313: If eye irritation persists get medical advice/attention.

P403+233: Store in a well-ventilated place. Keep container tightly closed.

P411: Store at temperatures not exceeding 50 °C/ 122 °F.

Please refer to the safety data sheet for additional information regarding this product

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Section 3: Composition/Information on Ingredients

3a Chemical name Tri-ethylamine functionalized chloromethylated

copolymer of polystyrene in the chloride form.

3b Ingredients

Tri-ethylamine functionalized chloromethlyated copolymer of styrene and divinylbenzene

in the chloride form

Water CAS# 7732-18-5 (35 – 65%)

Section 4: First Aid Measures

4a Inhalation No adverse effects expected- normal use of product

does not produce odors or vapors.

CAS# 63453-90-7 (35 - 65%)

4b Skin Wash with soap and water- seek medical attention if a

rash develops.

4c Eye contact Wash immediately with water-seek attention if

discomfort continues.

4d Ingestion No adverse effects expected for small amounts, larger

amounts can cause stomach irritation. Seek medical

attention if discomfort occurs.

Section 5: Fire Fighting Measures

5a Flammability NFPA Fire rating = 1

5b Extinguishing media Water, CO2, foam, dry powder.

5c Fire fighting Procedures Follow general fire fighting procedures indicated in the

work place. Seek medical attention if discomfort

continues.

5d Protective Equipment MSHA/NIOSH approved self-contained breathing

gear, full protective clothing.

5e Combustion Products Carbon oxides and other toxic gasses and vapors.

5f Unusual Hazards Product is not combustible until moisture is removed.

Resin begins to burn at approximately 230° C. Auto

ignition can occur above 500° C.

Section 6: Accidental Release Measures

6a Personal Precautions Keep people away, spilled resin can be a slipping

hazard, wear gloves and safety glasses to minimize

skin or eye contact.

6b Incompatible Chemicals Strong oxidants can create risk of combustion

products similar to burning, exposure to strong bases

can cause a rapid temperature increase.

6c **Environmental Precautions** Keep out of public sewers and waterways.

6d **Containment Materials** Use plastic or paper containers, unlined metal

containers not recommended.

6e Methods of Clean-up Sweep up material and transfer to containers.

Section 7: Handling and Storage

Handling Avoid prolonged skin contact. Keep resin moist and 7a

avoid allowing resin to completely dry.

Store in a cool dry place (0° to 45° C) in the original 7b Storage

shipping container. This product is thermally sensitive

and will have reduced shelf life if subjected to

extended periods of time at temperatures exceeding 50° C. Although freezing does not usually damage ion exchange resins, avoid repeated freeze thaw

cycles.

TSCA considerations Ion exchange resins should be listed on the TSCA

Inventory in compliance with State and Federal

Regulations.

Section 8: Exposure Controls/Personal Protection

OSHA exposure limits None noted. 8a

Engineering Controls 8b Provide adequate ventilation.

Personal Protection Measures 8c

> Eye Protection Safety glasses or goggles. Respiratory Protection Not required for normal use.

Protective Gloves Not required for limited exposure but recommended

for extended contact.

Section 9: Physical and Chemical Properties

Light cream to light yellow beads approx. Appearance

0.6 mm diameter.

Flammability or explosive limits Flammable above 500° C

Little or no odor Odor

Physical State Solid

Vapor pressure Not available Odor threshold Not available Vapor density Not available Hq

Near neutral

Relative density Approx 680 grams/Liter Melting point/freezing point Does not melt, freezes at approx. 0 C

Solubility Insoluble in water and most solvents

Boiling point Does not boil
Flash point Approx 500° C
Evaporation rate Does not evaporate

Partition Coefficient (n-octonol/water)

Auto-ignition temperature

Not applicable

Approx 500° C

Decomposition temperature

Above 230° C

Viscosity

Above 230° C

Not applicable

Section 10: Stability and Reactivity

Stable under normal conditions.
 Conditions to Avoid
 Heat, exposure to strong oxidants.

10c Hazardous by-products

Triethylamine, charred polystyrene, aromatic acids

and hydrocarbons, organic amines, nitrogen oxides,

carbon oxides, chlorinated hydrocarbons.

10d Incompatible materials Strong oxidizing agents (such as HNO³).

10e Hazardous Polymerization Does not occur

Section 11: Toxicological Information

11a Likely Routes of Exposure Oral, skin or eye contact.

11b Effects of exposure

Delayed None known.
Immediate (acute) None known.
Chronic None known.

11c Toxicity Measures

Skin Adsorption Unlikely, some transfer of acidity is possible.

Ingestion Oral toxicity believed to be low but no LD50 has

been established.

Inhalation Unknown, vapors are very unlikely due to physical

properties (insoluble solid).

11d Toxicity Symptoms

Skin Adsorption Mild Rash.

Indigestion or general malaise.

Inhalation Unknown.

11e Carcinogenicity None known

Section 12: Ecological information

12a Eco toxicity Not acutely harmful to plant or animal life.

12b Mobility Insoluble, acidity or causticity may escape if wet.

12c Biodegradability Not biodegradable.

12d Bioaccumulation Insignificant.

Section 13: Disposal Considerations

13a	General considerations	Material is non-hazardous.
13b	Disposal Containers	Most plastic and paper containers are suitable. Avoid use of unlined metal containers.
13c	Disposal methods	No specific method necessary.
13d	Sewage Disposal	Not recommended.
13e	Precautions for incineration	May release acids and toxic vapors when burned.
13f	Precautions for landfills	pH of spent resin may be high or low. Resins used to remove hazardous materials may then become

hazardous mixtures.

Section 14: Transportation Information

14a Transportation Class	Not classified as a dangerous good for transport by land, sea, or air.
14b TDG	Not regulated.
14c IATA	Not regulated.
14d DOT (49 CFR 172.101)	Not Regulated.

Section 15: Regulatory Information

15a CERCLA	Not regulated
15b SARA Title III	Not regulated
15c Clean Air act	Not regulated
15d Clean Water Act	Not regulated
15e TSCA	Not regulated
15f Canadian Regulations	
WHMIS	Not a controlled product
TDG	Not regulated

Section 16: Other Information

15g Mexican Regulations

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that their activities comply with federal, state, and local laws.

Not Dangerous

16 Date of Revision 20 June 2018