SAFETY DATA SHEET

Prefilter Resin SDS - Column

Revision Date: 27-May-15

Section 1: Chemical Product and Company Identification

Product Name	Prefilter Resin
Product Number(s):	PF-C01-A, PF-C20-A, PF-C50-A
Product Synonym(s):	Prefilter Resin Column
Identified Uses:	Laboratory chemicals, manufacture of substances

Manufacturer: Eichrom Technologies LLC
1955 University Lane
Lisle, Illinois 60532

General Information: (8-5 CST M-F)
800-422-6693 (in USA)
630-963-0320

24 Hour Emergency Number:

CHEMTREC: 800-424-9300

Section 2: Hazard(s) Identification

GHS Signal Word: **Warning**

GHS Classification of substance or mixture:
- Skin Irritant
- Eye Irritant
- Respiratory Tract Irritation

Hazard Statement(s):

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Prevention:	
P261	Avoid breathing dust.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, clothing, and eye protection.
	Wear safety goggles and/or face shield.
Response:	
P302/P352	IF ON SKIN: Wash with plenty of soap and water.
P304/P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305/P351/P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CONTROL CENTER or doctor if you feel unwell.
P332/P313	If skin irritation occurs, seek medical attention.
P337/P313	If eye irritation persists, get medical attention.
P362	Take off contaminated clothing and wash before reuse.
Storage:	
P403/P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
Disposal:	
P501	Dispose of contents/container in accordance with federal, state, and local regulations.

Section 3: Composition / Information on Ingredients

Component	CAS_Number	Percentage Range
De-ionized water	007732-18-5	60-70%
Nonionic Acrylic Ester Polymer		30-40%
Nitric Acid, Concentrated	7697-37-2	approximately 0.1%

Section 4: First-aid Measures

Ingestion	Call a POISON CONTROL CENTER or doctor if you feel unwell.
Skin Contact	Wash immediately with soap and copious amounts of water. Remove and wash contaminated clothing promptly. If irritation develops, seek medical attention.
Eye Contact	If eye irritation persists, get medical attention.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5: Firefighting Measures

Extinguishing Media	Foam, CO2, Dry Chemical
	Use fire extinguishing methods suitable to surrounding conditions
Fire and Explosion Hazards	Highly toxic and irritating fumes may be released and extinguishing water runoff may be toxic.
Special Hazards	No further relevant information available
Protective Equipment	Wear positive pressure self-contained breathing apparatus and full personal protective equipment.

Section 6: Accidental Release Measures

	Use proper personal protect equipment (specified in section 8)
Personal precautions	Surface may be slippery.
Environmental Precautions	Avoid release to the environment
Containment Cleanup	Sweep up material and transfer to a suitable container for disposal.
Reference to other sections	For disposal see section 13.

Section 7: Handling and Storage

Specific End Use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.
Conditions for safe handling	CAUTION: Do not pack glass column with dry ion exchange resins. Dry beads expand when wetted; this expansion can cause glass column to shatter.
	Avoid repeated freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature.
	Use mechanical exhaust if dust is formed.
Conditions for safe storage	Normal warehouse storage in cool, dry area is satisfactory.

Section 8: Exposure Controls / Personal Protection

Control Parameters	Contains no substances with occupational exposure limit values.
Eye protection	Wear safety glasses.
Skin Protection	Wear protective gloves and clothing
Respiratory protection	Do not breathe dust.

Section 9: Physical Properties

Information on basic physical and chemical properties

Appearance:	Powder-Liquid Mixture White bead in colorless liquid	Explosion Limits (Upper/Lower):	Not Established
Odor:		Flash Point:	Not established
Odor Threshold:	Not Established	Flammability:	Not Established
pH:	1.3 (dilute acid)	AutoIgnition Temperature:	Not Established
Melting Point:	0 to -5°C (dilute acid); Not determined for powder	Decomposition Temperature	Not Established
Boiling Point:	100 to 120°C (dilute acid); Not determined for powder	VaporPressure:	49 hPa (37 mmHg) at 50°C (122°F) for nitric acid
Relative Density:	1.001 g/mL at 25°C (powder is 0.35 g/mL)	VaporDensity:	Not Established
Solubility:	(in water) Beads are insoluble, acid is miscible with water	Evaporation Rate:	Not Established
Partition Coefficient:	Not Established		
Viscosity:	Not Established		

Section 10: Stability and Reactivity

Reactivity	No hazardous reactions if stored and handled as indicated.
Chemical Stability	Stable under normal handling and storage conditions.
Hazardous Reactions	No hazardous reactions are expected in normal laboratory use. Hazardous polymerization will not occur.
Conditions to Avoid	Avoid all sources of ignition; heat, sparks, open flame. Avoid electro-static discharge.
Materials to Avoid	There are no known materials which are incompatible with this product.
Hazardous decomposition Products	Thermal decomposition may yield the following: monomer vapors.

Section 11: Toxicology Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Acute Toxicity

Oral Effects	Polymer, Oral LD50 > 5,000 mg/kg (rat)
Inhalation Effects	Nitric Acid LC50 = 138 ppm/30 min (rat).
Dermal Effects	Polymer, Dermal LD50 > 5,000 mg/kg (rabbit)

Skin corrosion/irritation

Repeated exposure of the skin to low concentrations of nitric acid may cause dermatitis, characterized by erythema, itching and a dry scaly appearance.

Nitric Acid solution is Non-corrosive to skin via Corrositex® (skin) test.

Serious eye damage/irritation

No data available regarding serious eye damage/irritation.

Respiratory or skin sensitization

Long term inhalation exposure to nitric acid fumes can lead to chronic respiratory irritation such as bronchitis and may also lead to dental erosion as the nitric acid deposits on the teeth and erodes the outer coating of enamel.

No data available regarding respiratory or skin sensitization effects of the powder component.

Germ Cell Mutagenicity

No data available regarding mutagenic effects of this product.

Carcinogenicity

No data available regarding carcinogenic effects of this product.

Reproductive Toxicity

No data available regarding reproductive effects of this product.

Specific Target Organ Toxicity

Single Exposure	No data available regarding specific target organ toxicity single exposure.
Repeated Exposure	No data available regarding specific target organ toxicity repeated exposure.

Aspiration Hazard

No data available regarding aspiration hazards associated with this product.

Section 12: Ecological Information

	*The product has not been tested. The statement has been derived from the properties of individual components using an additivity method.
Aquatic Toxicity	No data are available on the adverse effects of this material on the environment.
Persistance and degradability	Persistence and degradability: No further relevant information available.
Bioaccumulative potential	Bioaccumulative potential: No further relevant information available.
Mobility in Soil	Mobility in soil: No further relevant information available.

Section 13: Disposal Considerations

General	Dispose of contents/container in accordance with federal, state, and local regulations.
Unused:	Bury resin in licensed landfill or burn in approved incinerator equipped with an afterburner and scrubber according to local, state, and federal regulations.
	Dispose of liquid according to local regulations for acids.
Used:	For resin contaminated with hazardous materials, dispose of mixture as hazardous material according to local, state, and federal regulations.

Section 14: Transport Information

Air Transport:	Not Hazardous per IATA 2014
Ground Transport:	Not D.O.T. Hazardous
Water Transport:	Not Hazardous per IMDG 2012.

Section 15: Regulatory Information

US Federal Regulations	Toxic Substances Control Act (TSCA): This material is provided to you under the research and development (R&D) exemption.

Section 16: Other Information

SDS Prepared By:	Eichrom Technologies LLC
Revision	Updated to GHS SDS format, including classification

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