

SAFETY DATA SHEET
Actinide Resin SDS - Column

Revision Date: 28-May-15

Section 1: Chemical Product and Company Identification

Product Name: Actinide Resin
Product Number(s): AC-C01-A, AC-C20-A, AC-C50-A
Product Synonym(s): Actinide Resin Column, 2 mL
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: **Danger**
GHS Classification of substance or mixture: Respiratory Tract Irritation
Skin Irritant
Eye Irritant
Respiratory sensitizer
Hazard Statement(s): H335 May cause respiratory irritation
H315 Causes skin irritation
H319 Causes serious eye irritation
H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled

Prevention:
P261 Avoid breathing dust and vapors.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, clothing, and eye protection.
P284 Wear respiratory protection.

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.
P342/P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
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		18-24%
DIPEX® Extractant	193487-47-7	12-16%
Nitric Acid, Concentrated	7697-37-2	approximately 0.1%

Section 4: First-aid Measures

General Advice	The hazardous properties of this material have not been established. Treat material as if it were toxic when evaluating first aid requirements.
Ingestion	IF SWALLOWED: 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	Irrigate immediately with water for 15 minutes. Mechanical irritation is possible; seek medical attention.
Inhalation	Remove to fresh air. If breathing is labored, administer oxygen. If not breathing, give artificial respiration. Seek medical attention.

Section 5: Firefighting Measures

Extinguishing Media	Foam, CO2, Dry Chemical
Fire and Explosion Hazards	Polymer does not support flame.
Special Hazards	Possible combustion products include carbon oxides, nitrogen oxides (NOx), and Hydrogen Gas
Fire and Explosion Hazards	Highly toxic and irritating fumes may be released and extinguishing water runoff may be toxic.
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.
Methods and materials for containment and clean-up	Ventilate area and wash spill site after material pickup is complete.
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	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

Engineering controls	Mechanical exhaust is required.
Control Parameters	Contains no substances with occupational exposure limit values.
Eye protection	Wear safety glasses.
Skin Protection	Wear protective gloves and clothing
Respiratory protection	Use NIOSH/MSHA approved respirator when handling material outside of mechanical exhaust. An air-purifying respirator with an organic vapor cartridge or canister may be permissible.

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:	low ammonia to none	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.
Conditions to Avoid	No relevant information available.
Materials to Avoid	Contact with strong oxidizers will degrade material.
Hazardous decomposition Products	Possible combustion products include phosphorous oxides, phosphoric acid, carbon dioxide, and carbon monoxide; additional unidentified organic compounds may also be produced.

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) Extractant, Oral LD50 has not been determined. Ingesting acid may irritate or burn mouth, nose, and stomach.
Inhalation Effects	Nitric Acid LC50 = 138 ppm/30 min (rat).
Dermal Effects	Polymer, Dermal LD50 > 5,000 mg/kg (rabbit) Extractant, Dermal LD50 has not been determined.
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. No test data available for powder component. Slight irritation expected.
Serious eye damage/irritation	No test data available. Slight irritation expected.
Respiratory or skin sensitization	No data available regarding respiratory or skin sensitization effects of the powder component. 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.
Germ Cell Mutagenicity	No data available regarding mutagenic effects of this product.
Carcinogenicity	No specific data available. Minimize direct exposure to material.
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

No data are available on the adverse effects of this material on the environment.

Section 13: Disposal Considerations

General	Avoid disposal to sewers and local waterways.
	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

The information set forth herein has been gathered from standard reference materials and is to the best knowledge and belief of Eichrom Technologies LLC, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and does not suggest or guarantee that the hazard precautions or procedures mentioned are the only ones that exist. Eichrom Technologies LLC makes no warranties, express or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefore.