SAFETY DATA SHEET Actinide Resin SDS - Column

		Actinide Resin SDS - Column Revision Date: 01-Feb-18			
Section 1: Chemical Product and Company Identification					
Product Na		inide Resin			
Product Numb	ber(s): AC-C	01-A, AC-C20-A, AC-C50-A			
Product Syno	Synonym(s): Actinide Resin Column, 2 mL				
Identified Use	es: Labo	ratory chemicals, manufacture of substances			
Manufacturer:	1955	om Technologies LLCGeneral(8-5 CST M-F)i University LaneInformation:800-422-6693 (in USA), Illinois 60532630-963-0320			
24 Hour Eme	rgency Number (US/Canada): 1-800-255-3924 CHEMTEL Contract #:MIS9554039			
24 Hour International Access Number: 1-813-248-0585					
		Country Specific Emergency Numbers:			
Australia: 1-300-954-583 India: 000-800-100-4086					
Brazil: 0-800-591-6042		2 Mexico: 1-800-99-731			
Section 2:	Hazard(s) Ident	ification			
		ibstance or mixture			
		stance or mixture in accordance with 29 CFR 1910 (OSHA HCS)			
Skin Irritar Eye Irritar					
-	ry Tract Irritation				
Respirato	ry mactimitation				
Pictogr		ncluding precautionary statements			
Signal Hazard	Word Wa Statement(s):	arning			
H31	5	Causes skin irritation			
H31	9	Causes serious eye irritation			
H33	5	May cause respiratory irritation			
Precau	utionary Statemen	t(s):			
Pr	P261 P264	Avoid breathing dust and vapors.			
eve	P264	Wash hands thoroughly after handling.			
7	P271	Use only outdoors or in a well-ventilated area.			
on	P280	Wear protective gloves, clothing, and eye protection.			
	P284	Wear respiratory protection.			
Re	P302+P352	IF ON SKIN: Wash with plenty of soap and water.			
Response	P304+P312	IF INHALED: Call a POISON CONTROL CENTER or doctor if you feel unwell.			
inse	P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.			
	P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if			
		present and easy to do. Continue rinsing.			
	P312	present and easy to do. Continue rinsing. Call a POISON CONTROL CENTER or doctor if you feel unwell.			
	P312 P332+P313				
		Call a POISON CONTROL CENTER or doctor if you feel unwell.			
	P332+P313	Call a POISON CONTROL CENTER or doctor if you feel unwell. If skin irritation occurs, seek medical attention. If eye irritation persists, get medical attention.			
	P332+P313 P337+P313 P342+P311	Call a POISON CONTROL CENTER or doctor if you feel unwell.If skin irritation occurs, seek medical attention.If eye irritation persists, get medical attention.If experiencing respiratory symptoms: Call a POISON CENTER or doctor.			
_	P332+P313 P337+P313	Call a POISON CONTROL CENTER or doctor if you feel unwell. If skin irritation occurs, seek medical attention. If eye irritation persists, get medical attention.			

Disposal

Dispose of contents/container in accordance with federal, state, and local regulations.

2.3 Hazards Not Otherwise Classified (HNOC) or not covered by GHS:

Component	CAS_Number	Percentage Range	
De-ionized water	007732-18-5	60-70%	
Nonionic Acrylic Ester Polymer	Trade Secret	18-24%	
DIPEX® Extractant	180572-58-1	12-16%	
Nitric Acid, Concentrated	7697-37-2	approximately 0.1%	
Section 4: First-aid Measures			
General Advice	The hazardous properties of this material h as if it were toxic when evaluating first aid i	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 give artificial respiration. Seek medical atte		
Section 5: Firefighting Measures			
Extinguishing Media	Foam, CO2, Dry Chemical		
Fire and Explosion Hazards	Polymer does not support flame.		
	Highly toxic and irritating fumes may be rel be toxic.	eased and extinguishing water runoff ma	
Protective Equipment	Wear positive pressure self-contained brea protective equipment.	athing apparatus and full personal	
Section 6: Accidental Release Me	asures		
Personal precautions	Surface may be slippery.		
	Use proper personal protect equipment (sp	pecified in section 8)	
Methods and materials for containment and clean-up	Sweep up material and transfer to a suitab	le container for disposal.	
	Ventilate area and wash spill site after mat	erial pickup is complete.	
Reference to other sections	For disposal see section 13.		
Section 7: Handling and Storage			
Conditions for safe handling	Use mechanical exhaust if dust is formed.		
Conditions for safe storage	Normal warehouse storage in cool, dry are	a is satisfactory.	
Specific End Use(s)	Apart from the uses mentioned in section 1	no other specific uses are stipulated.	
Section 8: Exposure Controls / Po	ersonal Protection		
Control Parameters	Contains no substances with occupational	exposure limit values	
Exposure Controls	Mechanical exhaust is required.		
Exposure controls Eye protection	Wear safety glasses.		
Body protection	Wear protective gloves and clothing.		
Respiratory protection	Use NIOSH/MSHA approved respirator wh mechanical exhaust. An air-purifying respi canister may be permissible.		

	///		Column		
Section 9: Physical	Properties				
Information on basic phy	ysical and cher	nical 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 Establis	shed	Flammability:	Not Established	
pH:	1.3 (dilute a	acid)	AutoIgnition Temperature:	Not Established	
Melting Point:	0 to -5°C (d determined	lilute acid); Not 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 0.35 g/mL)	at 25°C (powder is	VaporDensity:	Not Established	
Solubility:	(in water) Beads are insoluble, acid is miscible with water		Evaporation Rate:	Not Established	
Partition Coefficient:	Not Establis				
Viscosity:	Not Establis				
-					
Section 10: Stability	anu Reacti				
Reactivity			ons if stored and handled as i		
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: Toxicolo	ogy Informat	ion			
			been tested. The statements f the individual components.	on toxicology have been derived	
Acute Toxicity					
Oral Effects		Polymer, Oral LD50 :			
			0 has not been determined.		
			ritate or burn mouth, nose, ar	nd stomach.	
Inhalation Effects		Nitric Acid LC50 = 138 ppm/30 min (rat).			
Dermal Effects			50 > 5,000 mg/kg (rabbit)		
		Extractant, Dermal L	D50 has not been determined	d.	
Skin corrosion/irritation					
			e for powder component. Slig		
			Non-corrosive to skin via Co		
			of the skin to low concentratic ized by erythema, itching and		
Serious eye damage/irrit	ation		-		
Poppiratory or align acros	itization	No test data available	e. Slight irritation expected.		
Respiratory or skin sens	iuzation	No data available reg component.	garding respiratory or skin ser	nsitization effects of the powder	
		Long term inhalation		can lead to chronic respiratory	

Carcinogenicity Reproductive Toxicity

Germ Cell Mutagenicity

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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 mutagenic effects of this product.

No specific data available. Minimize direct exposure to material.

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	No data available regarding reproductive effects of	this product.	
Specific Target Organ Toxicity			
Single Exposure	No data available regarding specific target organ to	xicity single exposure.	
Repeated Exposure	No data available regarding specific target organ to	xicity 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 Cons	iderations		
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 Info	rmation		
Air Transport:	Not Hazardous per IATA 2014		
Ground Transport:	Not D.O.T. Hazardous		
Water Transport:	Not Hazardous per IMDG 2012.		
Section 15: Regulatory Info	ormation		
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 Informat	ion		
Revision	Updated to GHS SDS format, including classification		
	1-Feb-2018: Update Emergency Phone Numbers		
SDS Prepared By:	Eichrom Technologies LLC		
Eichrom Technologies LLC, accu	has been gathered from standard reference materials and is to the best knowledge and belief of rate and reliable. Such information is offered solely for your consideration, investigation and t or guarantee that the hazard precautions or procedures mentioned are the only ones that exist.		

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