

Section 1. PRODUCT AND COMPANY IDENTIFICATION			
Common Name/Trade Name: <b>Quick Decon™ Actinide Ion Specific RESIN</b>		MSDS No.	77103ARESIN
Manufacturer	Radiation Decontamination Solutions, LLC 141 Stevens Ave., Ste. # 9 Oldsmar, FL 34677 (813) 854-5100	Catalog Number	ARESIN
		<b>IN CASE OF EMERGENCY CALL 1-813-854-5100 24 hrs./day, 7 days/wk.</b>	
Supplier	<b>ResinTech, Inc. 1 ResinTech Plaza 160 Cooper Road West Berlin, NJ 08091 USA</b>	Product Use	Ion Exchange of Radioactive Actinides

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS-			
Name	Chloromethylated copolymer of Styrene and divinylbenzene in the Hydroxide form	Water	Other
% by Weight	greater than 50%	Less than 25%	Less Than 2%
CAS Registry Number	069011-18-3	7732-18-5	Not Appropriate
While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.			

Section 3: HAZARDS IDENTIFICATION	
Label Precautionary Statement	Caution: Generally not hazardous in normal handling; however, good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

Section 4: FIRST AID MEASURES	
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for a least 15 minutes, keep eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	Generally the product does not irritate intact skin. Wash exposed area with soap and water. If irritation persists, seek medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as collar, tie, belt or waistband.
Inhalation	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5: FIRE FIGHTING MEASURES	
Flash Point	Product is not combustible until moisture is removed, then resin starts to burn in flame at 230 C. Autoignition occurs above 500C
Upper and Lower Flammable (Explosive) Limits In Air	800 F
Auto-Ignition Temperature	500 C after moisture is removed.

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Flammability Classification	Not flammable
Products of Combustion	Products of combustion, such as Carbon Monoxide, may be poisonous.
Fire Fighting Media and Instructions	Water, CO2, Talc, Dry Chemical.
Protective Equipment	MISHA/NIOSH approved self-contained breathing gear.
Special Remarks on Explosion Hazards	None

#### Section 6: ACCIDENTAL RELEASE MEASURES

Small and Large Spills	<p>Person-related safety precautions: Not required</p> <p>Measures for environmental protection: No special measures</p> <p>Measures for cleaning/collecting: Sweep up and transfer to containers. Use caution – the floor may be slippery.</p>
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#### Section 7: HANDLING AND STORAGE

Handling	<p>Information for safe handling: Store in a cool dry place. This material is not considered hazardous. Store away from water reactive material such as strong acids or bases.</p>
Storage	<p>Requirements to be met by storerooms and receptacles: No special requirements. Store away from water reactive material such as strong acids or bases.</p> <p>Information about storage in one common storage facility: No special requirements. Store away from water reactive material such as strong acids or bases.</p> <p>Further information about storage conditions: Keep from freezing. Full containers may burst, solution expands upon freezing.</p>

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Personal Protection	<p>If radioactive, take appropriate measures for radioactive spills.</p> <ul style="list-style-type: none"> <li>Splash Goggles</li> <li>Gloves</li> <li>Lab coats</li> <li>Shoe covering</li> <li>Personal dosimeter</li> </ul> <p>If not radioactive: Generally not hazardous in normal handling; however, good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.</p>

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color	Light cream to light yellow.
Odor	Mild
Physical state	Solid beads in water

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pH	pH 4 to8
Vapor Pressure	Not available
Vapor Density	Not available
Boiling Point	Not applicable
Freezing Point	Not applicable
Melting Point	Not applicable
Solubility in water	Insoluble.
Specific Gravity or Density	1.2

#### Section 10: STABILITY AND REACTIVITY

Stability	The product is stable.
Instability Temperature	No decomposition if used according to specifications. Freezing of full containers should be avoided. Expansion occurs at freezing temperatures and containers may burst. Avoid Temperatures above 400 F.
Conditions of Instability	Water reactive materials. Strong acids, bases. May emit noxious gasses or steam.
Incompatible with Various Substances	Water reactive materials. Strong acids, bases. May emit noxious gasses or steam.
Dangerous Products of Decomposition	Carbon monoxide, Carbon dioxide.

#### Section 11: TOXICOLOGICAL INFORMATION

Acute Effects	Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	

#### Section 12: ECOLOGICAL INFORMATION

General	Not known to be hazardous to water.
Ecotoxicity	Not available
BOD% and COD	Not available
Products of Biodegradation	Not available
Toxicity of the Products of Biodegradation	Not available

## Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal	If radioactive, treat as radioactive waste. Bury uncontaminated resin in licensed landfill or burn in approved incinerator according to local, state, and federal regulations.
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## Section 14: TRANSPORTATION INFORMATION

DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable
Special Provisions for Transport	Not applicable

## Section 15: REGULATORY INFORMATION

Federal and State Regulations	No issue.
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## Section 16: OTHER INFORMATION

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, and local laws.

## Revision Data:

Date	Page/s involved	Details of Change	Prepared By
12/01/11	All	Initial issue	B. Schmidt

NOTICE: All chemicals may pose unknown hazards and should be used with caution. This MSDS contains data based on our present knowledge, and is intended to be used only as a guide. Radiation Decontamination Solutions, LLC, assumes no responsibility or liability for the use of this product in intended or other methods.