

# SAFETY DATA SHEET

Sr Resin SDS - Column

Revision Date: 22-May-15

## Section 1: Chemical Product and Company Identification

**Product Name** Sr Resin  
**Product Number(s):** SR10-C01-A, SR10-C20-A, SR1ML-R01-S, SR1ML-R50-S, SR5-C01-A, SR5-C20-A, SR8-C01-A, SR8-C20-A, SR-C01-A, SR-C20-A, SR-C50-A, SR-SPC25-A  
**Product Synonym(s):** Sr Resin  
**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:** Acute toxicity, Oral (Category 4)  
Acute toxicity, Dermal (Category 4)  
Acute toxicity, Inhalation (Category 4)  
Skin Irritant  
Eye Irritant  
Respiratory Tract Irritation  
**Hazard Statement(s):** H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H332 Harmful if inhaled  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

### Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, clothing, and eye protection.

### Response:

P301/P312 IF SWALLOWED: Call a POISON CONTROL CENTER or doctor if you feel unwell.  
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.

### 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		19-25%
4,4'(5') di-t-butylcyclohexane-18-crown-6	223719-29-7	6-8%
N-Octanol	111-87-5	5-7%
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	Contact local poison control center
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.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.
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
Special Hazards	Possible combustion products include carbon dioxide and carbon monoxide
Fire and Explosion Hazards	Polymer does not support flame. 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**

Personal precautions	Use proper personal protect equipment (specified in section 8) Surface may be slippery.
Environmental Precautions	Avoid release to the environment
Methods and materials for containment and clean-up	Ventilate area and wash spill site after material pickup is complete.
Containment Cleanup	Use adsorbent material to collect liquid component 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	Keep away from strong oxidizers. Normal warehouse storage in cool, dry area is satisfactory.

**Section 8: Exposure Controls / Personal Protection**

Engineering Controls	Mechanical exhaust is required.
Control Parameters	Per AIHA WEEL, 8hr-TWA for Octan-1-ol is 50 ppm.
Exposure Controls	Do not eat, drink or smoke when using this product Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.
Eye protection	Wear safety glasses.
Skin Protection	Wear impervious gloves and clean body-covering clothing.
Respiratory protection	Do not breathe dust or mist. 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:		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	Reacts with strong oxidizing agents.
Materials to Avoid	Contact with strong oxidizers will degrade material.
Hazardous decomposition Products	Possible combustion products include carbon monoxide, carbon dioxide, and nitrogen oxides.

**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). LD50 for octan-1-ol is 1790 mg/kg (mouse). LD50 for cyclocrown has not been determined.
Inhalation Effects	Nitric Acid LC50 = 138 ppm/30 min (rat).
Eye Effects	No data available. May cause irritation or corneal injury.
Dermal Effects	Octan-1-ol can be absorbed through skin.
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. Irritant to skin and mucous membranes. Nitric Acid solution is Non-corrosive to skin via Corrositex® (skin) test.
Serious eye damage/irritation	Irritant to eye.
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.
Germ Cell Mutagenicity	No data available regarding mutagenic effects of this product.
Carcinogenicity	No data available regarding carcinogenic effects of this product.
Reproductive Toxicity	Animal studies provide no indication of a teratogenic effect for nitric acid. No data available for other components. No other reproductive data available for nitric acid.
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 the aspiration hazard of this product.

### Section 12: Ecological Information

Aquatic Toxicity	*The product has not been tested. The statement has been derived from the properties of individual components using an additivity method.
Other	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.
Persistence and degradability	No data are available for persistence and degradability.
Bioaccumulative potential	No data are available for bioaccumulative potential.
Mobility in Soil	No data are available for mobility in soil.
PBT/vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### Section 13: Disposal Considerations

General	Dispose of contents/container in accordance with federal, state, and local regulations.
Unused:	Dispose of liquid according to local regulations for acids. Bury resin in licensed landfill or burn in approved incinerator equipped with an afterburner and scrubber according to local, state, and federal regulations.
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	
OSHA	A component, CAS# 7697 -37-2 is considered highly hazardous by OSHA.
SARA 311/312 Hazards	The following component is an Acute Health Hazard, Chronic Health Hazard under SARA Title III, Sections 311/312: Nitric Acid, CAS-No. 7697-37-2 (2007)
Clean Water Act	The following component is listed as a hazardous substance under the CWA: Nitric Acid [CAS -7697-37-2]
SARA	The following component is subject to reporting levels established by SARA Title III, Section 302: Nitric Acid, CAS-No. 7697-37-2 (2007) 1000 lb TPQ
SARA 313 Components	The following component is subject to reporting levels established by SARA Title III, Section 313: Nitric Acid, CAS-No. 7697-37-2 (2007)
CERCLA	The following component is subject to reporting levels established under CERCLA: CAS# 7697-32-2: 1000 lb final RQ; 454 kg final RQ
US Federal Regulations	Toxic Substances Control Act (TSCA): This material is provided to you under the research and development (R&D) exemption.
US State Regulations	A component, Nitric Acid [CAS 7697-37-2], is listed on the following state right to know lists: CA, MA, MN, NJ, PA A component, Octan-1-ol [CAS 111-87-5], is listed on the following state right to know lists: MN, PA
Canadian Ingredient Disclosure List	A component, Nitric Acid [CAS 7697-37-2] is listed on the Canadian Ingredient Disclosure List

**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.