

# SAFETY DATA SHEET

Pb Resin SDS - Column

Revision Date: 28-May-15

## Section 1: Chemical Product and Company Identification

Product Name: Pb Resin  
Product Number(s): PB-C01-A, PB-C20-A, PB-C50-A  
Product Synonym(s): Pb 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:  
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 and vapors.  
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.  
P330 Rinse mouth.  
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		18-24%
Isodecyl Alcohol	68526-85-2	7-10%
4,4'(5') di-t-butylcyclohexane-18-crown-6	223719-29-7	5-6%
Nitric Acid, Concentrated	7697-37-2	<0.1%

**Section 4: First-aid Measures**

General Advice	Symptoms of poisoning may occur after several hours; therefore medical observation is recommended for at least 48 hours after exposure.
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	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. Keep away from strong oxidizers.

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

Engineering controls	Mechanical exhaust is required.
Control Parameters	Contains no substances with occupational exposure limit values.
Exposure Controls	Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product
Eye protection	Wear safety glasses.
Skin Protection	Wear impervious gloves and clean body-covering 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. Do not breathe dust.

**Section 9: Physical Properties**

## Information on basic physical and chemical properties

Appearance:	Powder-Liquid Mixture Off-white, spherical beads	Explosion Limits (Upper/Lower):	Not Established
Odor:	Alcohol	Flash Point:	>94°C
Odor Threshold:	Not Determined	Flammability:	Not Established
pH:	1.3 (dilute acid)	AutoIgnition Temperature:	Product is not self-igniting.
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:	Not Established
Relative Density:	1.001 g/mL at 25°C (powder is 0.35 g/mL)	VaporDensity:	Not Established
Solubility:	(in water) Powder is insoluble, acid is miscible	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.
Conditions to Avoid	No relevant information available.
Materials to Avoid	Contact with strong oxidizers will degrade material.
Hazardous decomposition Products	Possible combustion products include carbon monoxide and carbon dioxide.

**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	Isodecyl Alcohol has a low order of toxicity. Polymer, Oral LD50 > 5,000 mg/kg (rat). LD50 for cyclocrown has not been determined.
Inhalation Effects	No data available for acute inhalation effects of other components of this product. Isodecyl Alcohol has a low order of toxicity.
Dermal Effects	Nitric Acid LC50 = 138 ppm/30 min (rat). Polymer, Dermal LD50 > 5,000 mg/kg (rabbit) Dermal LD50 for cyclocrown has not been determined. Cyclocrown is irritating to mucous membranes

Skin corrosion/irritation	Nitric Acid solution is Non-corrosive to skin via Corrositex® (skin) test. 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.
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Serious eye damage/irritation	Irritant to eye.
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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.
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Germ Cell Mutagenicity	No data available regarding mutagenic effects of this product.
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Carcinogenicity	No data available regarding carcinogenic effects of this product.
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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.
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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.
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.
Other	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

**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	Toxic Substances Control Act (TSCA): This material is provided to you under the research and development (R&D) exemption.
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**Section 16: Other Information**

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

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