SAFETY DATA SHEET

LN Resin SDS - Column

Section 1: Chemical Product and Company Identification

Product Name LN Resin

Product Number(s): LN10-C01-S, LN10-C20-S, LN-C01-A, LN-C20-A, LN-C50-A

Product Synonym(s): LN Resin Column

Identified Uses: Laboratory chemicals, manufacture of substances

Manufacturer: Eichrom Technologies LLC General (8-5 CST M-F)

1955 University Lane Information: 800-422-6693 (in USA)

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Lisle, Illinois 60532 630-963-0320

24 Hour Emergency 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 Mexico: 1-800-99-731

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture

GHS Classification of substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Dermal (Category 4)

Skin corrosion/irritation

Respiratory Tract Irritation

Acute and Chronic hazards to the aquatic environment (Category 3)

2.2 GHS Label elements, including precautionary statements

Pictogram:

Signal Word Danger

Hazard Statement(s):

H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H402+H412	Harmful to aquatic life (acute and long lasting)

Precautionary Statement(s):

Pre	P264	Wash hands thoroughly after handling.
Prevention	P271	Use only outdoors or in a well-ventilated area.
ntio	P273	Avoid release to the environment.
ا ت	P280	Wear protective gloves, clothing, and eye protection.
Reg	P301+P330+P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomitting.
Response	P303+P361+P353	IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin (or hair) with water.
Ф	P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
I	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
I	P310	IMMEDIATELY call a POISON CONTROL CENTER or doctor.
I	P363	Wash contaminated clothing before reuse.
I	P391	Collect Spillage.
Sto	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
Storag	P405	Store locked up.

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
0.05 N nitric acid (0.15% W/V in water)	7697-37-2	60-70%
Nonionic Acrylic Ester Polymer	Trade Secret	18-24%
Bis(2-ethylhexyl) phosphate	298-07-7	12-16%
Section 4: First-aid Measures		
General Advice	The hazardous properties of this material as if it were toxic when evaluating first aid	
Ingestion	If swallowed, do not induce vomiting; seek this container or label.	-
Skin Contact	Wash immediately with soap and copious contaminated clothing promptly. If irritation	
Eye Contact	Irrigate immediately with water for 15 minuseek medical attention.	utes. Mechanical irritation is possible;
Inhalation	Remove to fresh air. If breathing is labore give artificial respiration. Seek medical at	tention.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and section 2) and/or in section 11. Further in not known.	
Indication of any immediate medical attention and special treatment needed	Treat according to symptoms (decontamir antidote.	nation, vital functions), no known specific
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 rebe toxic.	
	Nitric acid can react explosively with certa as metal powders, carbides, hydrogen sul	
Protective Equipment	Wear positive pressure self-contained bre protective equipment.	athing apparatus and full personal
Special Hazards	Possible combustion products include phodioxide, and carbon monoxide, in addtion	
Section 6: Accidental Release Me	asures	
Personal precautions	Avoid creating and breathing dust. See so Surface may be slippery.	ection 8.
	Use proper personal protect equipment (s	pecified in section 8)
Methods and materials for containment and clean-up	Use adsorbent material to collect liquid co	•
	Sweep up material and transfer to a suital	ole container for disposal.
Reference to other sections	For disposal see section 13.	
Section 7: Handling and Storage		
Conditions for safe handling	Avoid contact with skin and eyes. Avoid in Use mechanical exhaust if dust is formed.	
Conditions for safe storage	Normal warehouse storage in cool, dry are	
	Keep away from strong oxidizers.	

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Section 8: Exposure	Controls / Personal Protection)	
Control Parameters	Contains no substar	nces with occupational ex	posure limit values.
Exposure Controls	Avoid contact with si immediately after ha		Vash hands before breaks and
	Mechanical exhaust	is required.	
	Avoid contact with s immediately after ha		Vash hands before breaks and
	Mechanical exhaust	is required.	
Eye Protection	Wear safety goggles	s and/or face shield.	
Skin Protection	Wear impervious glo	oves and clean body-cove	ering clothing.
Respiratory protection		. An air-purifying respirate	handling material outside of or with an organic vapor cartridge or
	Do not breathe dust		
		. An air-purifying respirate	handling material outside of or with an organic vapor cartridge or
	Do not breathe dust	•	
Section 9: Physical	Proportion		
	ysical and chemical properties		
Appearance:	Powder-Liquid Mixture	Explosion Limits	Not Established
дреагансе.	White bead in colorless liquid	(Upper/Lower):	Not Established
Odor:	low ammonia to none	Flash Point:	Not applicable
Odor Threshold:	Not Established	Flammability:	Not Established
pH:	1.3 (dilute acid)	Autolgnition Temperatu	re: Not Established
Melting Point:	0 to -5°C (dilute acid); Not determined for solid	Decomposition Temperature	Not Established
Boiling Point:	100 °C (dilute acid)	VaporPressure:	Not Established
Relative Density:	solid is 0.35 g/mL	VaporDensity:	Not Established
Solubility:	(in water) Beads are insoluble	Evaporation Rate:	Not Established
Partition Coefficient:	Not Established	.,	, , , , , , , , , , , , , , , , , , , ,
Viscosity:	Not Established		
Section 10: Stability	and Reactivity		
Reactivity	No hazardous reacti	ons if stored and handled	as indicated.
Chemical Stability	Stable under normal	handling and storage co	nditions.
Hazardous Reactions	No hazardous reacti polymerization will n		al laboratory use. Hazardous

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Section	11:	Toxicology	information

Hazardous decomposition Products

Conditions to Avoid

Materials to Avoid

	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 = 5,236 mg/kg (rat).
	Ingesting acid may irritate or burn mouth, throat, and stomach.
Interperitoneal	Extractant, Interperitoneal LD50 is 50 mg/kg (rat).

Contact with strong oxidizers will degrade material.

Possible combustion products include carbon monoxide, carbon dioxide, and

No relevant information available.

phosphorous oxides.

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Inhalation Effects	Nitric Acid LC50 = 138 ppm/30 min (rat).
Dermal Effects	Polymer, Dermal LD50 > 5,000 mg/kg (rabbit).
	Extractant, Dermal LD50 is 1,325 mg/kg (rabbit).
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.
Serious eye damage/irritation	
	Extractant, Eye - Corrosive (Rabbit, 24 hr).
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

	*The product has not been tested. The statement has been derived from the properties of individual components using an additivity method.
Aquatic Toxicity	
Acute Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 48-54 mg/l - 96.0 h for bis(2-ethylhexyl) phosphate
Acute Toxicity to aquatic invertebrates	LC50 - Daphnia magna (Water flea) - >42 mg/l - 48 h for bis(2-ethylhexyl) phosphate
Acute toxicity to aquatic plants	EC50 - Chlorella emersonii - 50-100 mg/l - 48 h for bis(2-ethylhexyl) phosphate
Persistance and degradability	No data are available for persistance 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
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General	Dispose of contents/container in accordance with federal, state, and local regulations.
	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.
	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.

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Section 14: Transport Information

Contact Eichrom for information regarding shipping classification.

Section 15: Regulatory Information

US Federal Regulations

Toxic Substances Control Act (TSCA): This material is provided to you under the

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research and development (R&D) exemption.

US State Regulations

This product contains no listed substances known to the state of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)

Section 16: Other Information

Revision Updated to GHS SDS format, including classification

1-Feb-2018: Update Emergency Phone Numbers

SDS Prepared By: Eichrom Technologies LLC

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 warrantees, 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.