

SAFETY DATA SHEET

LN3 Resin SDS - Bulk and Cartridge

Revision Date: 03-Jun-15

Section 1: Chemical Product and Company Identification

Product Name: LN3 Resin
Product Number(s): L3-1ML-R01-S, L3-1ML-R50-S, L3-B01-S, L3-R01-S, L3-R50-S
Product Synonym(s): LN 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:
Skin Irritant
Respiratory Tract Irritation
Eye Irritant
Acute and Chronic hazards to the aquatic environment (Category 3)

Hazard Statement(s):
H315 Causes skin irritation
H335 May cause respiratory irritation
H319 Causes serious eye irritation
H402+H412 Harmful to aquatic life (acute and long lasting)

Prevention:

P261 Avoid breathing dust and vapors.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves, clothing, and eye protection.

Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340+P312 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a doctor if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs, seek medical attention.
P337+P313 If eye irritation persists, get medical attention.
P362+P364 Take off contaminated clothing and wash before reuse.
P391 Collect Spillage.

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
Nonionic Acrylic Ester Polymer	Trade Secret	60%
Phosphorous based extractant	Trade Secret	40%

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	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. 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, 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, Water Spray
Protective Equipment	Wear positive pressure self-contained breathing apparatus and full personal protective equipment.
Special Hazards	Possible combustion products include carbon oxides and phosphorous oxides. Flammable olefin vapors may be driven off at temperatures greater than 125°C.

Section 6: Accidental Release Measures

Personal precautions	Use proper personal protect equipment (specified in section 8) Avoid creating and breathing dust. See section 8. Surface may be slippery.
Methods and materials for containment and clean-up	Ventilate area and wash spill site after material pickup is complete. 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. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Conditions for safe storage	Keep away from direct sunlight, heat sources, and sources of ignition Keep away from strong oxidizers. Normal warehouse storage in cool, dry, well-ventilated area is satisfactory.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	Mechanical exhaust is required.
Control Parameters	Contains no substances with occupational exposure limit values.
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.
Skin Protection	Wear impervious gloves and clean body-covering clothing. Wear safety goggles and/or face shield
Respiratory protection	Do not breathe dust. 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 Off-white, spherical beads	Explosion Limits (Upper/Lower):	Not applicable
Odor:	sweet	Flash Point:	>108°C (Closed Cup) for Extractant.
Odor Threshold:	Not Established	Flammability:	Not Established
pH:	Not Relevant	Autolgnition Temperature:	Not Established
Melting Point:	<-32°C for Extractant; not established for polymer.	Decomposition Temperature:	Not Established
Boiling Point:	>300°C for Extractant; not established for polymer.	VaporPressure:	Not Established
Relative Density:	0.35 g/mL at 25°C	VaporDensity:	Not Applicable
Solubility:	16 mg/L for Extractant; polymer is practically insoluble.	Evaporation Rate:	Negligible
Partition Coefficient:	Log Pow >= 2.65 for Extractant; not established for polymer.		
Viscosity:	Not Applicable		

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	No hazardous reactions are expected in normal laboratory use. Hazardous polymerization will not occur.
Conditions to Avoid	No relevant information available.
Materials to Avoid	Avoid contact with strong bases. Contact with strong oxidizers will degrade material.
Hazardous decomposition Products	Possible combustion products include carbon oxides and phosphorous oxides. Flammable olefin vapors may be driven off at temperatures greater than 125°C.

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). Extractant, Oral LD50 >3,500 mg/kg (rat).
Inhalation Effects	No data available for acute inhalation effects of this product.
Dermal Effects	Polymer, Dermal LD50 > 5,000 mg/kg (rabbit). Extractant, Dermal LD50 > 2,000 mg/kg (rabbit).
Skin corrosion/irritation	Extractant is a mild skin irritant (rabbit).
Serious eye damage/irritation	Extractant is Eye Irritant (rabbit).
Respiratory or skin sensitization	Extractant is not a skin sensitizer (Guinea Pig). No data for other components.
Germ Cell Mutagenicity	Extractant is not mutagenic in bacteria and did not produce chromosome aberrations in mouse nuclei. No data available regarding mutagenic effects of other components in this product.
Carcinogenicity	No data available regarding carcinogenic effects of this product.
Reproductive Toxicity	No data available regarding reproductive effects of this product.
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) - 22 mg/l - 96 for extractant.
	LC50 - Lepomis macrochirus (bluegill sunfish) - 46 mg/l - 96 h for extractant.
Acute Toxicity to aquatic invertebrates	LC50 - Daphnia magna (Water flea) - > 9.9 mg/l - 48 h for extractant.
Acute toxicity to aquatic plants	data collected on extractant toxicity in pseudokirchneriella for EC10, EC20, and EC50 did not attain the required values. The values for the extractant are therefor concluded to be greater than the maximum solubility.

Persistence and degradability

Biodegradability	This material is not readily biodegradable.
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	Avoid disposal to sewers and local waterways.
	Dispose of contents/container in accordance with federal, state, and local regulations.
Unused:	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Used:	For resin contaminated with hazardous materials, dispose of mixture as hazardous material according to local, state, and federal regulations.

Section 14: Transport Information

Contact Eichrom for information regarding shipping classification.

Section 15: Regulatory Information

US Federal Regulations

One or more components are an Acute Health Hazard under SARA Title III, Sections 311/312.

Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

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

Canada - DSL/NDSL

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Non-US Regulations

Other International Regulations One or more components of this product are NOT included on the Japanese (ENCS) inventory.

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.