

# SAFETY DATA SHEET

Nickel Resin SDS - column

Revision Date: 02-Jun-15

## Section 1: Chemical Product and Company Identification

**Product Name** Nickel Resin  
**Product Number(s):** NI5-C01-A, NI5-C20-A, NI-C01-A, NI-C20-A, NI-C50-A  
**Product Synonym(s):** Nickel Resin Column, 2 mL  
**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:** **Danger**  
**GHS Classification of substance or mixture:** Flammable Solid, See "purple book" for highly flammable  
Skin Irritant  
Eye Irritant  
Respiratory Tract Irritation  
Acute toxicity, Oral (Category 4)

### Hazard Statement(s):

H228 Flammable Solid  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H302 Harmful if swallowed

### Prevention:

P210  
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+P330 IF SWALLOWED: Rinse Mouth  
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  
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		27-36%
Dimethylglyoxime	94-45-4	3-4%
Ammonium Citrate	3012-65-5	<3%

**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	Rinse mouth and 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	If eye irritation persists, get medical attention. 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
Fire and Explosion Hazards	Highly toxic and irritating fumes may be released and extinguishing water runoff may be toxic. Polymer does not support flame.
Protective Equipment	Wear positive pressure self-contained breathing apparatus and full personal protective equipment.
Special Hazards	Toxic ammonia gas may form in fire. Possible combustion products include carbon oxides, nitrogen oxides (Nox)

**Section 6: Accidental Release Measures**

Personal precautions	Use proper personal protect equipment (specified in section 8)
Environmental Precautions	Surface may be slippery. Avoid release to the environment
Methods and materials for containment and clean-up	Ventilate area and wash spill site after material pickup is complete. Collect Spillage 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	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use mechanical exhaust if dust is formed.
Conditions for safe storage	Normal warehouse storage in cool, dry 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.
Eye protection	Wear safety glasses.
Skin Protection	Wear impervious gloves and clean body-covering clothing.
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-Liquid Mixture White bead in colorless liquid	Explosion Limits (Upper/Lower):	Not Established
Odor:	ammonia-like	Flash Point:	Not Established
Odor Threshold:	Not Established	Flammability:	Not Established
pH:	8 -9	AutoIgnition Temperature:	Not Established
Melting Point:	approximately 100°C	Decomposition Temperature	Not Established
Boiling Point:	approximately 0°C		
Relative Density:	0.25 g/mL at 20°C	VaporPressure:	Not Established
Solubility:	Powder is insoluble in water.	VaporDensity:	Not Established
Partition Coefficient:	Not Established	Evaporation Rate:	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.
Conditions to Avoid	Avoid all sources of ignition; heat, sparks, open flame. Avoid electro-static discharge.
Materials to Avoid	Contact with strong oxidizers will degrade material.
Hazardous decomposition Products	Toxic ammonia gas may form in fire. Possible combustion products include carbon monoxide, carbon dioxide, and nitrogen oxides. No hazardous decomposition products if stored and handled as indicated. See also section 5.

**Section 11: Toxicology Information**

Acute Toxicity	
Oral Effects	Dimethylglyoxime, Oral LDLO is 250 mg/kg (rat).
Inhalation Effects	Inhalation LC50 has not been determined.
Dermal Effects	Dermal LD50 has not been determined.
Skin corrosion/irritation	Prolonged exposure to liquid and/or powder will cause skin irritation.
Serious eye damage/irritation	Solid or dust may cause irritation or corneal injury due to mechanical action.
Respiratory or skin sensitization	No data available regarding respiratory sensitization effects of this product.
Germ Cell Mutagenicity	
Carcinogenicity	Dimethylglyoxime - Hamster, Embryo, Morphological transformation.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

Other

Dimethylglyoxime, RTECS: EK2975000

### 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

Avoid disposal to sewers and local waterways.

Dispose of contents/container in accordance with federal, state, and local regulations.

Unused:

Burn liquid in a chemical incinerator equipped with an afterburner and scrubber.

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

### 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.

US State Regulations

A component, Ammonium Citrate Dibasic [CAS 3012-65-5], is listed on the following state right to know lists:  
MA, PA

Canada - DSL/NDSL

A component, Ammonium Citrate Dibasic [CAS 3012-65-5], is listed on Canada's DSL 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.