

Conforms to 93/112/EC and ISO 11014-1

Responsible Name Pierce Administration

? **Section 1. Chemical Product and Company Identification**

Product name **Immobilized Nickel Chelate Column, 1 MI.**

Product No. 0078101 1900319

<b>Supplier</b>	<i>In USA:</i> Pierce P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723	<i>In Europe:</i> Perbio Science Industriezone III Industrielaan 27 9320 Erembodegem-Aalst Belgium Tel:+32 53 83 44 04 Fax:+32 53 83 76 38	<b>Manufacturer</b>	Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723
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In Case of Emergency CALL CHEMTREC:

800.424.9300  
OUTSIDE US:  
202.483.7616

Print Date 11/7/2003

Validation Date **11/7/2003**

MSDS# 2634

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

 **Section 2. Composition, Information on Ingredients**

Substance/Preparation : Preparation

<u>Ingredient Name</u>	<u>CAS No.</u>	<u>%</u>	<u>EC Number</u>	<u>Symbol</u>	<u>R-Phrases</u>
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No hazardous ingredient according to 29 CFR 1910.1200 Hazard Communication Standard (USA) and Directives 1999/45/EC-2001/59/EC (EU)

 **Section 3. Hazards Identification**

**United States** Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

**Emergency Overview** WARNING!  
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:  
SKIN, EYES.

**Routes of Entry** Absorbed through skin. Eye contact. Inhalation. Ingestion.

**Potential Acute Health Effects** Non-irritant for skin. Non-irritating to the eyes. Non-hazardous in case of ingestion. Non-hazardous in case of inhalation. Non-irritant for lungs.

**Carcinogenic Effects Data** **CARCINOGENIC EFFECTS:** Not available.  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.

**Medical Conditions Aggravated by Overexposure:** Repeated or prolonged exposure is not known to aggravate medical condition.

**Overexposure /Signs/Symptoms** Not available.

**Europe**

**Classification** Not controlled under dsd (Europe).

**Physical/chemical hazards** Not applicable.

**Human health hazards** Not applicable.

**Environmental hazards** Not applicable.

See Toxicological Information (section 11)

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## **+** Section 4. First Aid Measures

### Effects and symptoms

- Inhalation* Non-hazardous in case of inhalation. Non-irritant for lungs.
- Ingestion* Non-hazardous in case of ingestion.
- Skin Contact* Sensitization of the product: Not available.  
Non-irritant for skin.
- Eye Contact* Non-irritating to the eyes.
- Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical condition.

### First-Aid Measures

- Inhalation* If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
- Ingestion* Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin Contact* Wash with soap and water. Get medical attention if irritation develops.
- Eye Contact* Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
- Notes to Physician* Not available.
- Protection of first-aiders* Not available.

## **🔥** Section 5. Fire Fighting Measures

- Flammability of the Product* May be combustible at high temperature.
- Flash Points* Not available.
- Fire Hazards in Presence of Various Substances* Not considered to be flammable.
- Fire Fighting Media and Instructions* SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
- Protective Clothing (Fire)* Be sure to use an approved/certified respirator or equivalent.
- Hazardous thermal (de)composition products* Not available.

## Section 6. Accidental Release Measures

- Personal precautions* Safety glasses. Lab coat.
- Environmental Precautions and Clean-up Methods* Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
- Small Spill and Leak* Absorb with an inert material and put the spilled material in an appropriate waste disposal.

## **◇** Section 7. Handling and Storage

- Handling* Avoid breathing vapors or spray mists.
- Storage* Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 2 to 8°C (35.6 to 46.4°F).
- Intended Use* Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.
- Packaging materials*
- Suitable / Not suitable* Use original container.

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### Section 8. Exposure Controls/Personal Protection

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Exposure Limit Values	
<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
<b>United States</b>	
<b>Sweden</b>	
<b>Denmark</b>	
<b>Norway</b>	
<b>France</b>	
<b>Netherlands</b>	
<b>Germany</b>	

**Personal Protection**

**Eyes** Splash goggles.

**Body** Lab coat.

**Hands** Gloves.

**Respiratory** Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

Protective Clothing (Pictograms)



### Section 9. Physical and Chemical Properties

**Physical State and Appearance** Liquid. (Suspension.)

**Odor** Not available.

**Molecular Weight** Not applicable.

**Taste** Not available.

**pH (1% Soln/Water)** Neutral.

**Color** Not available.

**Boiling/Condensation Point** The lowest known value is 100°C (212°F) (Deionized Water).

**Melting/Freezing Point** May start to solidify at -0.1°C (31.8°F) based on data for: Deionized Water.

**Specific Gravity** The only known value is 1 (Water = 1) (Deionized Water).

**Vapor Pressure** The highest known value is 2.3 kPa (@ 20°C) (Deionized Water).

**Vapor Density** The highest known value is 0.62 (Air = 1) (Deionized Water).

**Evaporation Rate** 0.36 (Deionized Water) compared to (n-BUTYL ACETATE=1)

**Dispersion Properties** Not available.

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*Solubility* Insoluble in cold water, hot water.

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 **Section 10. Stability and Reactivity**

*Stability and Reactivity* The product is stable.

*Conditions to avoid* Not available.

*Materials to avoid* Reactive with oxidizing agents.

*Hazardous Polymerization* Will not occur.

*Hazardous Decomposition Products* Not available.

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 **Section 11. Toxicological Information**

*Toxicity to Animals* LD50: Not available.  
LC50: Not available.

*Chronic Effects on Humans* Contains material which causes damage to the following organs: central nervous system (CNS).

*Other Toxic Effects on Humans* Non-irritating to the eyes. Non-hazardous in case of inhalation. Non-irritant for lungs. Non-sensitizer for lungs.

*Special Remarks on Toxicity to Animals* Not available.

*Special Remarks on Chronic Effects on Humans* Not available.

*Special Remarks on Other Toxic Effects on Humans* To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated. (Agarose)

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 **Section 12. Ecological Information**

*Mobility* Not available.

*Persistence/degradability* Not available.

*Bioaccumulative potential* Not available.

*Ecotoxicity* Not available.

*Germany water class* VCI WGK: No products were found.

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 **Section 13. Disposal Considerations**

*Waste Information* Waste must be disposed of in accordance with federal, state and local environmental control regulations.

*Waste Stream* Not available.

*Consult your local or regional authorities.*

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 **Section 14. Transport Information**

*Contact the supplier for all information regarding the proper transportation method for this material.*

**Section 15. Regulatory Information**

**Label Requirements (Europe)**

This product is not classified according to the EU regulations.

**HCS Classification** Target organ effects.

**U.S. Federal Regulations** TSCA 8(b) inventory: Agarose; Deionized Water  
 SARA 302/304/311/312 extremely hazardous substances: No products were found.  
 SARA 302/304 emergency planning and notification: No products were found.  
 SARA 302/304/311/312 hazardous chemicals: No products were found.  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.  
 SARA 313 toxic chemical notification and release reporting: No products were found.  
 Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: No products were found.  
 Clean air act (CAA) 112 accidental release prevention: No products were found.  
 Clean air act (CAA) 112 regulated flammable substances: No products were found.  
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

**WHMIS (Canada)** Not controlled under WHMIS (Canada).

CEPA DSL: Agarose; Deionized Water

**International Regulations**

**EINECS** Not available.

**DSCL (EEC)** This product is not classified according to the EU regulations.

**International Lists** Australia (NICNAS): Agarose; Deionized Water

VCI WGK: No products were found.

Korea (TCCL): Agarose; Deionized Water

Philippines (RA6969): Agarose; Deionized Water

**State Regulations** No products were found.

**California prop. 65: No products were found.**

**Section 16. Other Information**

**Hazardous Material Information System (U.S.A.)**

Health	*	0
Fire Hazard		0
Reactivity		0
Personal Protection		a

**National Fire Protection Association (U.S.A.)**



**References** Not available.

**History of Document Changes** Any information changes since last document version are marked with a triangle symbol. ▶

**Full text of R-Phrases** No hazardous ingredient.  
 referred under headings 2 and 3:

**Intended Use** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

**Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*