

## Material Safety Data Sheet

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

Responsible Name MSDS\_Specialist

**? Section 1. Chemical Product and Company Identification****Product Name** Pierce® Ion Exchange Columns**Product no.** 90008 90009 90010 90011**Supplier** In USA:  
Thermo Fisher Scientific  
P.O. Box 117  
Rockford, IL 61105  
USA  
815.968.0747 or  
1.800.874.3723**In Europe:**  
Perbio Science  
Industriezone III  
Industrielaan 27  
9320 Erembodegem-Aalst  
Belgium  
Tel:+32 53 83 44 04  
Fax:+32 53 83 76 38**Manufacturer** Pierce  
3747 N. Meridian Road  
P.O. Box 117  
Rockford, IL 61105  
USA  
815.968.0747 or  
1.800.874.3723  
(815)968-7316 fax  
www.thermo.com**In case of emergency** CHEMTREC:  
800.424.9300  
OUTSIDE US:  
703.527.3887**Print date** 10/8/2007**Validation date** 10/8/2007**MSDS#** 7851**Use of the substance/preparation** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.**Section 2. Composition, Information on Ingredients****Substance/preparation** : Substance

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** No specific hazard.**Routes of entry** Eye contact. Inhalation. Ingestion.**Potential acute health effects****Eyes** No known significant effects or critical hazards.**Skin** No known significant effects or critical hazards.**Inhalation** No known significant effects or critical hazards.**Ingestion** No known significant effects or critical hazards.**Potential chronic health effects****Carcinogenic effects** **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.**Over-exposure signs/symptoms** Not available.**Europe****Classification** Not classified.**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* Not available.  
*Ingestion* Not available.  
*Skin contact* Not available.  
*Eye contact* Not available.  
*Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical condition.

### **First-Aid measures**

- Inhalation* If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.  
*Ingestion* Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.  
*Skin contact* In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.  
*Eye contact* 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 available.  
*Fire fighting media and instructions* Use an extinguishing agent suitable for surrounding fires.  
*Protective clothing (fire)* Be sure to use an approved/certified respirator or equivalent.  
*Hazardous thermal decomposition products* Not available.

## **Section 6. Accidental release measures**

- Personal precautions* Safety glasses. Lab coat.  
*Environmental precautions and clean-up methods* Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.  
*Small spill and leak* Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

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

- Handling* Wash thoroughly after handling.  
*Storage* Keep container tightly closed. Keep container in a cool, well-ventilated area.  
*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** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Exposure Limit Values

#### Ingredient Name

#### Occupational Exposure Limits

United States

### Personal Protection

**Eyes** Safety glasses.

**Body** Lab coat.

Protective Clothing  
(Pictograms)



## Section 9. Physical and chemical properties

**Physical State** Solid. (Plastic apparatus with regenerated cellulose membrane)

**Color** Not available.

**Odor** Not available.

**Molecular weight** Not available.

**Taste** Not available.

**Dispersion properties** Not available.

**Solubility** Insoluble in cold water.



## Section 10. Stability and reactivity

**Stability and Reactivity** The product is stable.

**Conditions to avoid** Not available.

**Materials to avoid** Not available.

**Hazardous Decomposition Products** Not available.



## Section 11. Toxicological information

**Toxicity to Animals** Pierce® Ion Exchange Columns  
LD50: Not available.  
LC50: Not available.

**Chronic Effects on Humans** Not available.

**Other Toxic Effects on Humans** No specific information is available in our database regarding the other toxic effects of this material for humans.

**Special Remarks on Toxicity to Animals** Not available.

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

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*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.

*Carcinogenicity* No known significant effects or critical hazards.

*Mutagenicity* No known significant effects or critical hazards.

*Reproductive toxicity* No known significant effects or critical hazards.

Over-exposure signs/symptoms

*Inhalation* No known significant effects or critical hazards.

*Ingestion* No known significant effects or critical hazards.

*Skin* No known significant effects or critical hazards.



**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.

Ecotoxicity data

Ingredient name

Species

Period

Other ecological information

Persistence/degradability

Ingredient name

BOD<sub>5</sub>

COD

Ingredient name

Aquatic half-life

Photolysis

Bioaccumulative potential

Ingredient name

LogP<sub>ow</sub>

BCF

*Mobility* : Not available.

*Other adverse effects* : No known significant effects or critical hazards.



**Section 13. Disposal considerations**

*Waste Stream* Not available.

*Methods of disposal* The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

*European waste catalogue (EWC)* Not available.

*Hazardous waste* To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

*Denmark – Carcinogenic waste* Not available.

*Denmark - Waste card number* Not available.

*Denmark - Waste group* Not available.

## Pierce® Ion Exchange Columns

Sweden - thermoset plastic waste Not available.

Sweden - Waste group Not available.

Austria - Waste catalogue Not available.

Norway - Waste number Not available.

Norway - Hazardous waste To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by SFT's Directive on special waste.

Switzerland - Waste code Not available.

### 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

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U.S. Federal Regulations TSCA: No products were found.

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.

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.

State regulations No products were found.

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

No products were found.

#### International Regulations

EINECS Not available.

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

International Lists No products were found.

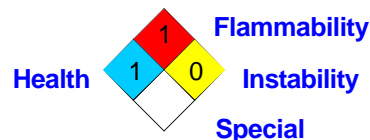
State Regulations No products were found.

### Section 16. Other information

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

Health	1
Fire hazard	1
Reactivity	0
Personal protection	C

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



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*References* Not available.

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

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

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Validated by MSDS\_Specialist on 10/8/2007.

Verified by MSDS\_Specialist.

Date of previous issue No Previous Validation

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Version 0.01

**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.*