

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

Responsible Name Pierce Administration

## ? Section 1. Chemical Product and Company Identification

**Product name** ImmunoPure IgM Elution Buffer

**Product No.** 0021017 1900059

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

**In Case of Emergency** CALL CHEMTREC:

800.424.9300  
OUTSIDE US:  
202.483.7616

**Print Date** 11/14/2002

**Validation Date** 11/4/2002

**MSDS#** 1022

**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

Ingredient Name	CAS No.	%	EC Number	Symbol	R-Phrases
1) Elution Buffer Component 1		0.1-1	201-064-4	Xi	R36/37/38
2) Elution Buffer Component 2		5-7	231-598-3	--	Not controlled under dsd (Europe).

## 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:  
LUNGS, RESPIRATORY TRACT, SKIN, EYES, STOMACH.

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

**Potential Acute Health Effects** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**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

**Notice to Reader** Get immediate medical attention.  
**Effects and symptoms**

**Inhalation** Slightly hazardous in case of inhalation.  
**Ingestion** Slightly hazardous in case of ingestion.  
**Skin Contact** Sensitization of the product: Not available.  
Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.  
**Eye Contact** Slightly hazardous in case of eye contact (irritant).  
**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.  
**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. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.  
**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. Cold water may be used. 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** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate 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** 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>	
1) Elution Buffer Component 2	Not available.
<b>Sweden</b>	
1) Elution Buffer Component 1	Not available.
2) Elution Buffer Component 2	Not available.
<b>Denmark</b>	
1) Elution Buffer Component 1	Not available.
2) Elution Buffer Component 2	Not available.
<b>Norway</b>	
1) Elution Buffer Component 1	Not available.
2) Elution Buffer Component 2	Not available.
<b>France</b>	
1) Elution Buffer Component 1	Not available.
2) Elution Buffer Component 2	Not available.
<b>Netherlands</b>	
1) Elution Buffer Component 1	Not available.
2) Elution Buffer Component 2	Not available.
<b>Germany</b>	
1) Elution Buffer Component 1	Not available.
2) Elution Buffer Component 2	Not available.

### 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.

**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) (Milli-Q Water).

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

**Specific Gravity** The only known value is 1 (Water = 1) (Milli-Q Water).

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

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

**Evaporation Rate** 0.36 (Milli-Q Water) compared to Butyl acetate.

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*Dispersion Properties* See solubility in water, acetone.

*Solubility* Soluble in cold water, hot water.  
Partially soluble in acetone.

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 **Section 10. Stability and Reactivity**

*Stability and Reactivity* The product is stable.

*Conditions to avoid* Reacts violently with water especially when water is added to the product. Heating may cause an explosion.  
Keep away from heat (Sodium Azide)

*Materials to avoid* Not available.

*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* Not available.

*Other Toxic Effects on Humans* Slightly hazardous in case of eye contact (irritant), of ingestion, of inhalation.

*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. (Elution Buffer Component 1)

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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.*

**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: Elution Buffer Component 1; Elution Buffer Component 2; Elution Buffer Component 3; Sodium Azide; Milli-Q Water  
 TSCA 8(d) H and S data reporting: Sodium Azide  
 SARA 302/304/311/312 extremely hazardous substances: Sodium Azide  
 SARA 302/304 emergency planning and notification: Sodium Azide  
 SARA 302/304/311/312 hazardous chemicals: Elution Buffer Component 2; Sodium Azide  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Elution Buffer Component 2: immediate health hazard, delayed health hazard; Sodium Azide: immediate health hazard

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)** CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

CEPA DSL: Elution Buffer Component 1; Elution Buffer Component 2; Sodium Azide; Milli-Q Water  
 CEPA NDSL: Sodium Azide

**International Regulations**

**EINECS** Not available.

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

**International Lists** Australia (NICNAS): Elution Buffer Component 1; Elution Buffer Component 2; Elution Buffer Component 3; Sodium Azide; Milli-Q Water

Germany water class: Elution Buffer Component 3; Sodium Azide

Korea (TCCL): Elution Buffer Component 1; Elution Buffer Component 2; Sodium Azide; Milli-Q Water

Philippines (RA6969): Elution Buffer Component 1; Elution Buffer Component 2; Elution Buffer Component 3; Sodium Azide; Milli-Q Water

**State Regulations** Pennsylvania RTK: Sodium Azide: (environmental hazard, generic environmental hazard)  
 Florida: Sodium Azide  
 Minnesota: Sodium Azide  
 Massachusetts RTK: Sodium Azide  
 New Jersey: Sodium Azide  
**California prop. 65: No products were found.**

**Section 16. Other Information**

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

Health	*	1
Fire Hazard		1
Reactivity		0
Personal Protection		a

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



**References** Not available.

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## ImmunoPure IgM Elution Buffer

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



**Full text of R-Phrases** Irritating to eyes, respiratory system and skin.  
**referenced under headings 2 and 3:** Not applicable.

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

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Validated by Pierce Administration on 11/4/2002.

Verified by Pierce Administration.

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.*