

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

Responsible Name Pierce Administration

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

**Product name** Bovine Gamma Globulin Standard, 2.0 mg/ml, 10 x 1 MI Amps

**Product No.** 0023212

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

**In Case of Emergency** CALL CHEMTREC:  
800.424.9300  
OUTSIDE US:  
202.483.7616

**Print Date** 11/12/2002  
**Validation Date** 11/4/2002  
**MSDS#** 2714

**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, STOMACH.

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

**Potential Acute Health Effects** Slightly hazardous in case of ingestion, of inhalation.

**Carcinogenic Effects Data** **CARCINOGENIC EFFECTS:** Classified None. by NIOSH [Sodium Chloride].  
**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)

**Continued on Next Page**

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

### **Effects and symptoms**

- Inhalation* Slightly hazardous in case of inhalation.  
*Ingestion* Slightly hazardous in case of ingestion.  
*Skin Contact* Irritation of the product in case of skin contact: Not available. Sensitization of the product: 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 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* In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.  
*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.  
*Notes to Physician* Not available.  
*Protection of first-aiders* Not available.

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

- Flammability of the Product* Non-flammable.  
*Flash Points* Not applicable.  
*Fire Hazards in Presence of Various Substances* Not applicable.  
*Fire Fighting Media and Instructions* Not applicable.  
*Protective Clothing (Fire)* Not applicable.  
*Hazardous thermal (de)composition products* Not applicable.

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## **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.

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## **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.  
*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.

**Continued on Next Page**

## 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.

### Exposure Limit Values

#### Ingredient Name

#### Occupational Exposure Limits

#### United States

- 1) Sodium Azide
- 2) Sodium Chloride

TWA: 0.3 CEIL: 0.1 (ppm) from NIOSH [United States] [1994] SKIN  
 Not available.

#### Sweden

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#### Denmark

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#### Norway

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#### France

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#### Netherlands

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#### Germany

### 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** Odorless.

**Molecular Weight** Not applicable.

**Taste** Not available.

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

**Color** Colorless.

**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.

**Dispersion Properties** See solubility in water.

**Continued on Next Page**

*Solubility* Soluble in cold water, hot water.

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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 applicable.

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 **Section 11. Toxicological Information**

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

*Chronic Effects on Humans* **CARCINOGENIC EFFECTS:** Classified None. by NIOSH [Sodium Chloride].

*Other Toxic Effects on Humans* Slightly hazardous in case 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* Not available.

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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: Sodium Chloride; 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: Sodium Chloride; Sodium Azide  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Chloride: 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)** Not controlled under WHMIS (Canada).

CEPA DSL: Sodium Chloride; 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): Sodium Chloride; Sodium Azide; Milli-Q Water

Germany water class: Sodium Chloride; Sodium Azide

Korea (TCCL): Sodium Chloride; Sodium Azide; Milli-Q Water

Philippines (RA6969): Sodium Chloride; 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		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 referred under headings 2 and 3: No hazardous ingredient.

**Bovine Gamma Globulin Standard, 2.0  
mg/ml, 10 x 1 MI Amps**

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

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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.*