

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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# **SAFETY DATA SHEET**

## Purified Gamma Globulins, sterile-filtered liquid, no preservative

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name: Purified gamma globulins, sterile-filtered liquid, no preservative

#### Product code:

001-000-002	004-000-002	007-000-002	011-000-002	014-000-002
002-000-002	005-000-002	008-000-002	012-000-002	015-000-002
003-000-002	006-000-002	009-000-002	013-000-002	017-000-002

# SDS #: 27EU

## Product description:

001-000-002	Bovine Gamma Globulin	006-000-002	Guinea Pig Gamma Globulin	012-000-002	Rat Gamma Globulin
002-000-002	Cat Gamma Globulin	007-000-002	Syrian Hamster Gamma Globulin	013-000-002	Sheep Gamma Globulin
003-000-002	Chicken Gamma Globulin	008-000-002	Horse Gamma Globulin	014-000-002	Swine Gamma Globulin
004-000-002	Dog Gamma Globulin	009-000-002	Human Gamma Globulin	015-000-002	Mouse Gamma Globulin
005-000-002	Goat Gamma Globulin	011-000-002	Rabbit Gamma Globulin	017-000-002	Donkey Gamma Globulin

Product type: Sterile-filtered liquid

Other means

of identification: None

#### 1.2 Revelant identified uses of the substance or mixtureidentifier

For in vitro research use only. Not for diagnostic or therapeutic use. This is not a medical device. Contact suppliers for specific applications.

## 1.3 Details of the supplier of the safety data sheet

## **European Contact**

Jackson ImmunoResearch Europe LTD
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Suffolk, CB8 7SY, UK
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### Manufacturer

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cuserv@jacksonimmuno.com
tech@jacksonimmuno.com
www.jacksonimmuno.com

E-mail address of the person responsible for this SDS: tech@jacksonimmuno.com

### 1.4 Emergency telephone number

**Emergency Contact** 

Telephone number: CHEMTREC:

800-424-9300 OUTSIDE USA: 703-527-3887

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition: Mixture

## Classification according to Directive 1999/45/E [DPD]

Europe

The product is not classified as dangerous according to directive 1999/45/EC and its amendments

Classification: Not classified.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 formore detailed informationon health effects and symptoms.

### 2.2 Label elements

Hazard symbol or symbols:

Indication of danger:

Risk phrases: This product is not classified according to EU legislation.

Safety phrases: Not applicable.

Hazardous ingredients: None

Supplemental label elements: Not applicable.

#### Special packaging requirements

Containers to be fitted with child-resistant fastenings: Not applicable.

Tactile warning of danger: Not applicable.

#### 2.3 Other hazards

Other hazards which do not result in classification: Not available

## SECTION 3: Composition/information on ingredients

#### Substance/mixture: Mixture

Chemical Name	CAS#	EC#	% (w/w)
Sodium Phosphate	7558-79-4	231-448-7	0.14
Purified gamma globulin	N/A	N/A	1.1
Sodium Chloride	7647-14-5	231-598-3	1.5
Water	7732-18-5	N/A	balance

This mixture is not considered to be hazardous

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact: If this product enter the eyes, flush the eyes with gently running water for at least 15 minutes. If inflammation occurs, get medical attention.

Inhalation: Vapors of these products are likely to be only water vapors, so no adverse health effects are expected if vapors are inhaled. If irritation occurs, get medical attention.

**Skin contact:** Basic hygiene should prevent any problems. If contact with these products leads to reddening, inflammation, or irritation, flush exposed area with running water and get medical attention.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give small quntities of water to drink. Do not induce vomiting unless directed by medical personnel. These products are for *in vitro* research use only, not for household, diagnostic, or therapeutic use. They are not medical devices. If these products are accidentally swallowed, no adverse health effects are expected. However, no special precautions are taken to remove or detect the possible presence of endotoxin or pyrogens. If fever or adverse effects are experienced, get medical attention.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

# Potential acute health effects

Eye contact: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards. Skin contact: No known significant effects or critical hazards. Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms
Eye contact: No specific data.
Inhalation: No specific data.
Skin Contact: No specific data.
Ingestion: No specific data.

# 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments: No specific treatment.

# SECTION 5: Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. Unsuitable extinguishing media: None known.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products: Decomposition products may include oxides of carbon, nitrogen, and phosporus in very small quantities.

### 5.3 Advice for fire fighters

Special precautions for fire fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire fighters: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-face piece operated in positive pressure mode. Clothing for fire fighters (including helmits, protective boots, and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6. Accidental release measures

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## 6.1 Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

**6.2 Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

#### 6.3 Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble. Alternatively, or if water insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material, e.g. sand, earth, vermiculite, or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via licensed waste disposal contractor.

6.4 Reference to other sections: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

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information in this section contains generic advice and guidelines. The list of Identified Uses in Section 1 should be consulted for any available use specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures: Put on appropriate protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking, and smoking should be prohibited in areas where material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities: Store at 2-8 ° C under sterile conditions. Store in original container away from incompatible materials (see Section 10) and food and drink. Keep container tighly sealed until ready to use. Prepare working dilution fresh each day. Remove aliquots for dilution and reseal container under sterile conditions. Do not store in unlabeled container. Use appropriate containment to avoid environmental contamination. Consult Product Specification sheets for additional storage information.

#### 7.3 Specific end uses

Recommendations: Not available.

Industrial sector specific solutions: Not available.

### SECTION 8: Exposure controls/personal protection

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information in this section contains generic advice and guidence. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 8.1 Control parameters

## Occupational exposure limits

Europe: No exposure limit value known.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere, or biological monitoring may be required to determine the effectiveness of the venilation or other control measures and/or the necessity to use repiratory protective equipment. Reference should be made to European Standard EN689 for methods for the assessment of exposure by inhalation to chemical agents and national guildance documents for methods for the determination of hazardous substances.

# Derived effect levels

No DELs available

## **Predicted effect concentrations**

No PECs available

## 8.2 Exposure controls

Appropriate engineering controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure below any recommended or statutory limits.

### **Individual protection measures**

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavoratory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure the eyewash station and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts.

### Skin protection

Hand protection: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly-fitted, air-purifying, or air-fed respirator complying with an approved standard if a risk assessment indicates this is a necessity. Respirator selection must be on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

**Appearance** 

**Physical state: Liquid** Color: Colorless, as water Odor: Odorless, as water Odor threshold: Not available

Melting point/freezing point: Not available Initial boiling point and boiling range: Not available

Flash point: Not available **Evaporation rate:** Not available

Flammability: Not available **Burning time:** Not available **Burning rate:** Not available

Upper/lower flammability or explosive limits: Not available

Vapor pressure: Not available Vapor density: Not available Relative density: Not available

Solubility(ies): Soluble in warm and cold water Partitition coefficient: n-octanol/water Auto-ignition temperature: Not available **Decomposition temperature:** Not available

Viscosity: Not available

Explosive properties: Not available Oxidizing properties: Not available

#### 9.2 Other information

No additional information

## SECTION 10: Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

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10.2 Chemical stability: The product is stable.

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: No specific data.

10.5 Incompatible materials: No specific data.

10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous decompsition products will not be produced.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

**Acute toxicity** 

Sodium Chloride: Oral Rat, LD50, 3,000 mg/kg Sodium Phosphate: Oral Rat, LD50, 17g/kg Antibody Protein: Not established

Irritation/Corrosion

Conclusion/Summary: Not available.

<u>Sensitizer</u>

Conclusion/Summary: Not available. Mutagenicity

Conclusion/Summary: Not available

Carcinogenicity

Conclusion/Summary: Not available

Reproductive toxicity Conclusion/Summary: Not available

**Teratogenicity** 

Conclusion/Summary: Not available

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, and Inhalation

Potential acute health effects

Inhalation: No known significant effects or critical hazards. Ingestion: No known significant effects or critical hazards. Skin contact: No known significant effects or critical hazards. Eye contact: No known significant effects or critical hazards.

Symptoms related to the physical, chemical, and toxicological characteristics

Inhalation: No specific data Ingestion: No specific data Skin contact: No specific data Eye contact: No specific data

Delayed, immediate, and chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate effects: Not available Potential delayed effects: Not available

Long term effects

Potential immediate effects: Not available Potential delayed effects: Not available Potential chronic health effects

Conclusion/Summary: Not available

General: No known significant effects or critical hazards. Carcinogenicity: No known significant effects or critical hazards. Mutagenicity: No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Other information: Not available

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Conclusion/Summary: Not available

# 12.2 Persistence and degradability

Conclusion/Summary: Not available

#### 12.3 Bioaccumulative potential

Not available

#### 12.4 Mobility in soil

Soil/water partition coefficient: Not available

Mobility: Not available

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

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

### SECTION 13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

#### **Packaging**

Methods of disposal: The generation of waste should be avoied or minimized whenever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

SECTION 14: Transport information					
	ADR/RID	ADN/ADNR	IMDG	IATA	
14.1 UN number	Not available	Not available	Not available	Not available	
14.2 UN proper shipping name	Not available	Not available	-	-	
14.3 Transport hazard class(es)	Not available	Not available	-	-	
14.4 Packing group	-	-	-	-	
14.5 Environmental hazards	No	No	No	No	
14.6 Special precaution for user	Not available	Not available	Not available	Not available	
Additional information	-	-	-	-	

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the and the IBC Code: Not available

## SECTION 15: Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market, and use of certain dangerous substances, mixtures, and articles: Not applicable

## Other EU regulations

Europe inventory: Not determined Black List Chemicals: Not listed Priority List Chemicals: Not listed

Integrated pollution prevention and control list (IPPC) - Air: Not listed

IPPC - Water: Not listed

### **National Regulations**

## **SECTION 16: Other information**

Abbreviations and acronyms: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling, and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard Statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS

Not classified

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification Justification

### **Europe**

Full text of abbreviation H statements: Not applicable Full text of classifications [CLP/GHS]: Not applicable Full text of abbreviated R phrases: Not applicable Full text of classifications[DSD/DPD]: Not applicable

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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.