# Safety data sheet according to 1907/2006/EC, Article 31

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Version number 3

Revision: 03.05.2018

<ul> <li>1.1 Product identifier</li> <li>Trade name: γ-Globulin bovine</li> <li>Article number: 22550</li> <li>CAS Number:</li> <li>9007-83-4</li> <li>EC number:</li> <li>232-706-1</li> <li>1.2 Relevant identified uses of the substance or mi</li> <li>No further relevant information available.</li> <li>Application of the substance / the mixture Laborat</li> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier:</li> <li>SERVA Electrophoresis GmbH</li> <li>Carl-Benz-Str. 7</li> <li>D-69115 Heidelberg</li> <li>Tel.: +49 6221 13840-0</li> <li>FAX: +49 6221 13840-10</li> <li>msds.info@serva.de</li> <li>Information department: Product Safety department</li> <li>1.4 Emergency telephone number:</li> <li>Medical Emergency Information in case of poisonin Poison Information Center Mainz - Phone: +49 (0) (advisory service in German or English language)</li> <li>SECTION 2: Hazards identification</li> <li>2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 12</li> </ul>	tory chemicals nt Tel.: +49 6221 13840-35 ng: 6131 19240
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Clussification according to Regulation (EC) no 12	272/2008
The substance is not classified according to the CL	P regulation.
2.2 Label elements	
Labelling according to Regulation (EC) No 1272/2	2008 Void
Hazard pictograms Void	
Signal word Void	
Hazard statements Void	
2.3 Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	
SECTION 3: Composition/information on ing	redients
3.1 Chemical characterisation: Substances	
CAS No. Description:	
9007-83-4 y-Globulins	
<i>Identification number(s):</i>	
<b>EC number:</b> 232-706-1	
Description:	
<b>MW:</b> ca. 150 000	
	(Contd. on page

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

- · 4.1 Description of first aid measures
- · General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Immediately rinse with water.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing
- Rinse out mouth and then drink plenty of water.
- If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

- · Suitable extinguishing agents
- $CO_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be formed, but not limited to: Nitrogen oxides (NOx) Carbon monoxide (CO)

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

## **SECTION 6:** Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections No dangerous substances are released.

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

- 7.1 Precautions for safe handling Prevent formation of dust.
- · Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in dry conditions.
- · 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.

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2 Exposure controls
ersonal protective equipment
eneral protective and hygienic measures
he usual precautionary measures should be adhered to when handling chemicals.
reathing equipment: Suitable respiratory protective device recommended.
rotection of hands:
he glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
ue to missing tests no recommendation to the glove material can be given for the product/ the preparation
e chemical mixture.
election of the glove material on consideration of the penetration times, rates of diffusion and the
gradation
aterial of gloves
he selection of the suitable gloves does not only depend on the material, but also on further marks of which and waring from manufactuments an any factures.
uality and varies from manufacturer to manufacturer.
enetration time of glove material
he exact break trough time has to be found out by the manufacturer of the protective gloves and has to be pserved.
or the permanent contact of a maximum of 15 minutes gloves made of the following materials ar
itable:
atural rubber, NR
itrile rubber, NBR
ve protection: Safety glasses

• **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties					
• 9.1 Information on basic physical and	d chemical properties				
· General Information					
· Appearance:					
Form:	Powder				
Colour:	White				
· Odour:	Characteristic				
· pH-value (70 g/l) at 20 •C:	6.8 - 7.2				
• Change in condition Melting point/freezing point: Initial boiling point and boiling ran	undetermined <b>ige:</b> undetermined				
· Flash point:	Not applicable				
· Flammability (solid, gaseous)	Product is not flammable.				
· Explosive properties:	Product does not present an explosion hazard.				
· Density:	Not determined				
· Solubility in / Miscibility with					
Water:	Soluble				
• 9.2 Other information	No further relevant information available.				

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

 $\cdot$  10.3 Possibility of hazardous reactions No dangerous reactions known

 $\cdot$  10.4 Conditions to avoid No further relevant information available.

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• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known

## **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- · 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14.1 UN-Number		
ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
ADR, ADN, IMDG, IATA	Void	

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· 14.3 Transport hazard class(es)				
· ADR, ADN, IMDG, IATA				
· Class	Void			
· 14.4 Packing group				
· ADR, IMDG, IATA	Void			
· 14.5 Environmental hazards:	Not applicable.			
$\cdot$ 14.6 Special precautions for user	Not applicable.			
· 14.7 Transport in bulk according to	Annex II of			
Marpol and the IBC Code	Not applicable.			
· Transport/Additional information:	Not dangerous according	to the above specifications.		

## **SECTION 15: Regulatory information**

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

Void

· National regulations

· UN "Model Regulation":

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department
- · Contact: +49 6221 13840-35
- · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (REACH) vPvB: very persistent, very bioaccumulative substance (REACH) REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals CLP: Regulation on classification, labelling and packaging of substances and mixtures ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- $\cdot$  \* Data compared to the previous version altered.

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