Printing date 05/03/2018

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Reviewed on 09/26/2008

Product identifier	
Trade name: Albumin bovine Fraction V, pH 5.2	SERVA
Article number: 11922 CAS Number: 9048-46-8 EC number: 232-936-2 Application of the substance / the mixture Laboratory chemic	cals
Details of the supplier of the safety data sheet Manufacturer/Supplier: SERVA Electrophoresis GmbH Carl-Benz-Str. 7 D-69115 Heidelberg Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10 msds.info@serva.de	GING
<b>Information department:</b> Product Safety department Tel.: +4 <b>Emergency telephone number:</b> Medical Emergency Information in case of poisoning: Poison Information Center Mainz - Phone: +49 (0) 6131 1924 (advisory service in German or English language)	)`
Hazard(s) identification	
<b>Classification of the substance or mixture</b> The substance is not classified according to the Globally Harn	nonized System (GHS).
Label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Classification system:	
Label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Classification system: NFPA ratings (scale 0 - 4) Health = 0 Fire = 0	

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Trade name: Albumin bovine Fraction V, pH 5.2

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#### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 9048-46-8 Albumins, blood serum
- · Identification number(s)
- EC number: 232-936-2
- · Description:
- · MW: ca. 67000

#### 4 First-aid measures

- · 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: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- $CO_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Carbon monoxide and carbon dioxide
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

#### 6 Accidental release measures

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

### 7 Handling and storage

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

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	otection
• Additional information about des	ign of technical systems: No further data; see item 7.
· Control parameters	
	<b>ut require monitoring at the workplace:</b> Not required.
• Additional information: The lists	that were valid during the creation were used as basis.
· Exposure controls	
· Personal protective equipment:	
$\cdot$ General protective and hygienic r	
	s for handling chemicals should be followed.
	espiratory protective device recommended.
• Protection of hands:	mussible and use istant to the must with a substance of the muse sugging
	prmeable and resistant to the product/ the substance/ the preparation.
the chemical mixture.	ndation to the glove material can be given for the product/ the preparation
	on consideration of the penetration times, rates of diffusion and the
degradation	se constact anon of the penetration times, rates of all used and the
· Material of gloves	
	wes does not only depend on the material, but also on further marks
quality and varies from manufactu	
· Penetration time of glove materia	
The exact break trough time has a	to be found out by the manufacturer of the protective gloves and has to b
observed.	
· For the permanent contact of a	n maximum of 15 minutes gloves made of the following materials an
- 0	
suitable:	
suitable: Nitrile rubber, NBR	
suitable: Nitrile rubber, NBR Chloroprene rubber, CR	
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses	
suitable: Nitrile rubber, NBR Chloroprene rubber, CR	
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses	
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses	clothing
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work	clothing ies
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work • Physical and chemical propert • Information on basic physical an • General Information	clothing ies
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work • Physical and chemical propert • Information on basic physical an • General Information • Appearance:	clothing ies d chemical properties
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work • Physical and chemical propert • Information on basic physical an • General Information • Appearance: Form:	clothing ies d chemical properties Crystalline powder
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work • Physical and chemical propert • Information on basic physical an • General Information • Appearance: Form: Color:	clothing ies d chemical properties Crystalline powder Whitish
suitable: Nitrile rubber, NBR Chloroprene rubber, CR Eye protection: Safety glasses Body protection: Protective work Physical and chemical propert Information on basic physical an General Information Appearance: Form: Color: Odor:	clothing ies d chemical properties Crystalline powder Whitish Characteristic
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work • Physical and chemical propert • Information on basic physical an • General Information • Appearance: Form: Color: • Odor:	clothing ies d chemical properties Crystalline powder Whitish Characteristic
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work • Physical and chemical propert • Information on basic physical an • General Information • Appearance: Form: Color: • Odor: • pH-value (10 g/l) at 20 °C (68 °F,	clothing ies d chemical properties Crystalline powder Whitish Characteristic
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work • Physical and chemical propert • Information on basic physical an • General Information • Appearance: Form: Color: • Odor: • pH-value (10 g/l) at 20 °C (68 °F; • Change in condition Melting point/Melting range:	clothing ies d chemical properties Crystalline powder Whitish Characteristic ): 5.4 Undetermined.
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work • Physical and chemical propert • Information on basic physical an • General Information • Appearance: Form: Color: • Odor: • pH-value (10 g/l) at 20 °C (68 °F) • Change in condition	clothing ies d chemical properties Crystalline powder Whitish Characteristic ): 5.4
suitable: Nitrile rubber, NBR Chloroprene rubber, CR • Eye protection: Safety glasses • Body protection: Protective work • Physical and chemical propert • Information on basic physical an • General Information • Appearance: Form: Color: • Odor: • pH-value (10 g/l) at 20 °C (68 °F; • Change in condition Melting point/Melting range:	clothing ies d chemical properties Crystalline powder Whitish Characteristic ): 5.4 Undetermined.
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suitable: Nitrile rubber, NBR Chloroprene rubber, CR Eye protection: Safety glasses Body protection: Protective work Physical and chemical propert Information on basic physical an General Information Appearance: Form: Color: Odor: PH-value (10 g/l) at 20 °C (68 °F) Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Danger of explosion: Density at 20 °C (68 °F):	clothing ies d chemical properties Crystalline powder Whitish Characteristic ): 5.4 Undetermined. Undetermined. Not applicable. Product is not flammable. Product does not present an explosion hazard.

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Trade name: Albumin bovine Fraction V, pH 5.2

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## **10 Stability and reactivity**

- · Reactivity No further relevant informations available
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- *Conditions to avoid No further relevant information available.*
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

### **12** Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (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.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

# **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation: Must be specially treated adhering to official regulations.
- · Uncleaned packagings:
- · Recommendation:

*Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleansed are to be disposed of in the same manner as the product.* 

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• Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information	
UN-Number DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group DOT, ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Void

## **15 Regulatory information**

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

- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is listed.

· Proposition 65 Substance is not listed.

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **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
- Date of preparation / last revision 05/03/2018 / 1

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US

Printing date 05/03/2018

Reviewed on 09/26/2008

## Trade name: Albumin bovine Fraction V, pH 5.2

<ul> <li>Abbreviations and acronyms:</li> <li>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)</li> <li>ICAO: International Civil Aviation Organisation</li> <li>PBT: persistent, bioaccumulative, toxic substance (REACH)</li> <li>vPVB: very persistent, very bioaccumulative substance (REACH)</li> <li>REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals</li> <li>CLP: Regulation on classification, labelling and packaging of substances and mixtures</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transport Association</li> <li>IATA: International Air Transport Association</li> <li>IATA: International Air Transport Association</li> <li>ACGIH: American Conference of Governmental Industrial Hygienists</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>NFPA: National Fire Protection Association (USA)</li> <li>HMIS: Hazardous Materials Identification System (USA)</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPVB: very Persistent and very Bioaccumulative</li> <li>NIOSH: National Institute for Occupational Safety</li> <li>OSHA: Occupational Safety &amp; Health</li> <li>TU: Threshold Limit Value</li> <li>PEL: Permissible Exposure Limit</li> <li><b>*</b> Data commended Exposure Limit</li> <li><b>*</b> Data commende to the nervious varsion altared</li> </ul>	(Contd. of page 5)
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NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit	PBT: Persistent, Bioaccumulative and Toxic
OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit	vPvB: very Persistent and very Bioaccumulative
TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit	NIOSH: National Institute for Occupational Safety
PEL: Permissible Exposure Limit REL: Recommended Exposure Limit	OSHA: Occupational Safety & Health
REL: Recommended Exposure Limit	TLV: Threshold Limit Value
	PEL: Permissible Exposure Limit
. * Data compared to the provious version altered	REL: Recommended Exposure Limit
	$\cdot$ * Data compared to the previous version altered.