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SECTION 1: Identificati	on of the substance/mixture and of the compo	any/undertaking
· 1.1 Product identifier		CEDI/A
• Trade name: <u>SERVA Unsta</u> 6.5 - 200 KDa	nined SDS PAGE Protein Marker 9, liquid mix	serving scientists
No further relevant informa	t <b>of the substance or mixture and uses advised ago</b> tion available. <b>e / the mixture</b> Laboratory chemicals	ainst
1.3 Details of the supplier of Manufacturer/Supplier: SERVA Electrophoresis Gm Carl-Benz-Str. 7 D-69115 Heidelberg Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10 msds.info@serva.de		GUL
• <b>1.4 Emergency telephone n</b> Medical Emergency Informa	ation in case of poisoning: Mainz - Phone: +49 (0) 6131 19240	5
SECTION 2: Hazards id	<u> </u>	
The product is not classified	bstance or mixture Regulation (EC) No 1272/2008 I according to the CLP regulation.	
<ul> <li>2.2 Label elements</li> <li>Labelling according to Reg</li> <li>Hazard pictograms Void</li> <li>Signal word Void</li> <li>Hazard statements Void</li> <li>2.3 Other hazards</li> <li>Results of PBT and vPvB a</li> </ul>	ulation (EC) No 1272/2008 Void	
• <b>PBT</b> : PBT - assessment not • <b>vPvB</b> : vPvB - assessment not	available.	
	n/information on ingredients	
· 3.2 Chemical characterisati · Description: -	ion: Mixtures	
• Dangerous components: Vo	pid	
SECTION 4: First aid m	easures	
• 4.1 Description of first aid 1		
• General information No spo • After inhalation Supply fres • After skin contact Immedian		y.
	al minutes under running water. Remove present co abthalmologist In case of complaints.	ontact lenses, if easy to do, and
~ 1	•	(Contd. on page 2)

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- After swallowing Wash out mouth. Seek medical advice if discomfort occurs.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **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
- Formation of dangerous gases or vapours is possible in case of fire.
- · 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.
 Ensure adequate ventilation Avoid contact with the eyes and skin.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- 6.4 Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Avoid contact with eyes and skin.

- · 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: Store at -15 to -25 °C
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed and 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists that were valid during the creation were used as basis.

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9.2 E	
8.2 Exposure controls	
Personal protective equipment	
General protective and hygienic measure	25
Keep away from foodstuffs, beverages and	l feed.
Store protective clothing separately.	
Immediately remove all soiled and contam	ninated clothing
Avoid contact with the eyes and skin.	
Wash hands before breaks and at the end	of work.
Breathing equipment: Suitable respirator	ry protective device recommended.
Protection of hands:	
	e and resistant to the product/ the substance/ the preparation.
	to the glove material can be given for the product/ the preparation
the chemical mixture.	
	sideration of the penetration times, rates of diffusion and th
degradation	
Material of gloves	
	es not only depend on the material, but also on further marks of
quality and varies from manufacturer to n	
	es not only depend on the material, but also on further marks
	to manufacturer. As the product is a preparation of sever
	naterial can not be calculated in advance and has therefore to l
checked prior to the application.	
Penetration time of glove material	und out hu the manufactures of the protective closes and has to b
observed.	und out by the manufacturer of the protective gloves and has to l
	and of 15 minutes along made of the following materials as
For the permanent contact of a maxin	num of 15 minutes gloves made of the following materials an
Nitrile rubber, NBR	
Nitrile rubber, NBR Natural rubber, NR	
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses	
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses	g.
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses	g.
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing	
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing SECTION 9: Physical and chemical p	properties
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing <b>SECTION 9: Physical and chemical p</b> <b>9.1 Information on basic physical and ch</b>	properties
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information	properties
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing <b>SECTION 9: Physical and chemical p</b> <b>9.1 Information on basic physical and che General Information</b> <b>Appearance:</b>	properties nemical properties
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and che General Information Appearance: Form:	properties
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing <u>SECTION 9: Physical and chemical p</u> 9.1 Information on basic physical and ch General Information Appearance: Form: Colour:	properties nemical properties Liquid Blue
Nitrile rubber, NBR Natural rubber, NR <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing <b>SECTION 9: Physical and chemical p</b> 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour:	properties nemical properties Liquid
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour threshold:	properties nemical properties Liquid Blue Odourless Not determined.
Colour: Odour: Odour threshold: pH-value at 20 °C:	properties nemical properties Liquid Blue Odourless
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: PH-value at 20 °C: Change in condition	properties nemical properties Liquid Blue Odourless Not determined. 6.8
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: Odour: pH-value at 20 °C: Change in condition Melting point/freezing point:	properties nemical properties Liquid Blue Odourless Not determined. 6.8 undetermined
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: Odour: Ddour threshold: pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range:	broperties bemical properties Liquid Blue Odourless Not determined. 6.8 undetermined undetermined
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range:	properties nemical properties Liquid Blue Odourless Not determined. 6.8 undetermined
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point:	broperties bemical properties Liquid Blue Odourless Not determined. 6.8 undetermined undetermined
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flammability (solid, gaseous)	properties nemical properties Liquid Blue Odourless Not determined. 6.8 undetermined undetermined Not applicable
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: Odour: pH-value at 20 °C: Change in condition Melting point/freezing point:	properties nemical properties Liquid Blue Odourless Not determined. 6.8 undetermined undetermined Not applicable
Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing SECTION 9: Physical and chemical p 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flammability (solid, gaseous) Ignition temperature:	broperties bemical properties Liquid Blue Odourless Not determined. 6.8 undetermined undetermined Not applicable Not applicable.

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· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density:	Not determined
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Soluble
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
· VOC %:	0.00 %
· Solids content:	3.0 %
· 9.2 Other information	No further relevant information available.

### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant informations available
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No further relevant informations available.
- · 10.4 Conditions to avoid high ttemperatures
- · 10.5 Incompatible materials: Avoid contact with strong oxidizers.
- 10.6 Hazardous decomposition products: In case of fire: See Section 5

## **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.
- $\cdot$  **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.

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#### **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 product 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 Disposal must be made according to official regulations.
- · Uncleaned packagings:
- · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

14.1 UN-Number	
ADR, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	Void
Label	-
14.4 Packing group	
ADR, IMDĞ, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.

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#### **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations

- 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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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