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

Printing date 26.04.2018	Version number 2	Revision: 06.04.201
SECTION 1: Identification	of the substance/mixture and of the co	mpany/undertaking
· 1.1 Product identifier		SER7A
· Trade name: <u>Adenosine</u>		Electrophoresis
· Article number: 10770		
· CAS Number:		
58-61-7 • EC number:		
200-389-9		
	f the substance or mixture and uses advised	l against
No further relevant information		
•	the mixture Laboratory chemicals	(Δ)
• 1.3 Details of the supplier of the	he safety data sheet	
• Manufacturer/Supplier: SERVA Electrophoresis GmbH	•.	Ch
Carl-Benz-Str. 7		
D-69115 Heidelberg) *
<i>Tel.:</i> +49 6221 13840-0		
FAX: +49 6221 13840-10 msds.info@serva.de		
•	duct Safety demonstration Tal . 40 (221 120	10.25
• Information department: Prod • 1.4 Emergency telephone num	luct Safety department Tel.: +49 6221 1384 aber:	-0-33
Medical Emergency Information		
	<i>sinz - Phone: +49 (0) 6131 19240</i>	
(advisory service in German or		
SECTION 2: Hazards ident		
2.1 Classification of the substa		
• Classification according to Re	according to the CLP regulation.	
	according to the CEI regulation.	
 2.2 Label elements Labelling according to Regula 	ution (FC) No 1272/2008 Void	
Hazard pictograms Void		
· Signal word Void		
• Hazard statements Void		
• 2.3 Other hazards • Results of PBT and vPvB asse	asmont	
• <i>PBT:</i> Not applicable.	55ment	
• vPvB: Not applicable.		
SECTION 3: Composition/	information on ingredients	
• 3.1 Chemical characterisation	a: Substances	
• CAS No. Description: 58-61-7 adenosine		
· Identification number(s):		
• EC number: 200-389-9		
· Description:		
• Empirical formula: $C_{10}H_{13}N_{3}$	₅ O ₄	
• MW: 267.2		

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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 Drink copious amounts of water and provide fresh air. Call for doctor immediately.
- \cdot 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
- 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: Mount 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.

· 8.2 Exposure controls

- · Personal protective equipment
- · General protective and hygienic measures
- The usual precautionary measures should be adhered to when handling chemicals.

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• Breathing equipment: Suitable respiratory protective device recommended.

• **Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR Nitrile rubber, NBR Chloroprene rubber, CR

- Eye protection: Safety glasses
- Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties • General Information		
· General Information · Appearance:		
Form:	Powder	
Colour:	White	
· Odour:	Odourless	
• <i>pH-value</i> (10 g/l) at 25 • <i>C</i> :	6	
· Change in condition		
Melting point/freezing point:	236 °C	
Initial boiling point and boiling range:	undetermined	
· Flash point:	Not applicable	
· Flammability (solid, gaseous)	Product is not flammable.	
· Explosive properties:	Product does not present an explosion hazard.	
· Density at 20 •C:	0.31 g/cm ³	
• Bulk density at 20 •C:	ca. 580 kg/m ³	
· 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.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.

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· 10.6 Hazardous decomposition products: No dangerous decomposition products known

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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.
- \cdot 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 Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION 14: Transport information

· 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.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Anno Marpol and the IBC Code	ex II of Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

- · 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 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.