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Version number 1

Revision: 08.04.2025

SECTION 1: Identification of	of the substance/mixture and of the substance of the subs	he company/undertaking
1.1 Product identifier		SERVA
Trade name: <u>di-Sodium hydrog</u> Synonyma sec. sodium phospha		serving scientist
No further relevant information	<b>he substance or mixture and uses a</b> available. <b>he mixture:</b> Laboratory chemicals	dvised against
1.3 Details of the supplier of the 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	e safety data sheet	555
Information department: Secur 1.4 Emergency telephone numb Emergency medical information Poison Information Centre Main (Counselling in German and Eng	in case of poisoning nz-Tel: +49 (0) 6131 19240	840-35
SECTION 2: Hazards identi	fication	
2.1 Classification of the substan Classification according to Reg	ace or mixture	
2.2 Label elements Labelling according to Regulate Hazard pictograms: Void Signal word: Void Hazard statements: Void 2.3 Other hazards Results of PBT and vPvB assess PBT: PBT - Assessment not ava vPvB: vPvB - Assessment not ava Determination of endocrine-dis	<b>sment:</b> ilable.	int information available.
SECTION 3: Composition/in	formation on ingredients	
3.1 Substances CAS No. Description: 10028-24-7 Disodium hydrogene Identification number(s): EC number: 231-448-7 Description:	orthophosphate dihydrate	
Empirical formula: Na <sub>2</sub> H P O <sub>4</sub>	* /H_()	

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• **MW:** 177.99

### **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:
- Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. *After eye contact:*
- Rinse opened eye for several minutes with running water. Remove contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.
- After swallowing: Rinse out mouth. In case of complaints, consult a doctor.
- **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: Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture: Formation of hazardous vapours and gases possible during heating or in case of fire.

In case of fire, the following can be formed, but not limited to:

Phosphorous oxides (e.g.  $P_2O_5$ )

- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Pick up mechanically.
- 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. Prevent formation of dust.
- · Information about protection against explosions and fires: The product is not flammable

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- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store containers tightly closed and dry.
- 7.3 Specific end use(s): No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- · 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

- Appropriate engineering controls: No further data; see section 7.
- · Individual protection measures, such as personal protective equipment:
- $\cdot$  General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing
- Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Suitable respiratory protective device recommended.
- Hand protection:

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.

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

Natural rubber, NR

- Nitrile rubber, NBR
- Eye/face protection: Safety glasses
- · Body protection: Protective work clothing.

## SECTION 9: Physical and chemical properties

•9.1 Information on basic physical and chemical p	roperties
· General Information:	
· Physical state:	Solid.
· Colour:	white or almost white or colourless
· Odour:	Odourless
· Odour threshold:	not determined.
• Melting point/freezing point:	No information available
· Boiling point or initial boiling point and boiling	
range:	No information available
· Flammability:	No information available

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· Lower and upper explosion limit:	
· Lower:	No information available
· Upper:	No information available
· Flash point:	No information available
· Decomposition temperature:	Not determined.
· <i>pH</i> :	9-9.6
Viscosity:	
Kinematic viscosity:	No information available
Dynamic viscosity:	No information available
Solubility:	·
· Water:	Soluble
Partition coefficient n-octanol/water (log value):	No information available
· Vapour pressure:	No information available
Density and/or relative density:	·
Density:	No information available
Relative density:	No information available
Particle characteristics	No information available
9.2 Other information	
Appearance:	
· Form:	Powder or crystals
Important information on protection of health and	d
environment, and on safety:	
Explosive properties:	Product does not present an explosion hazard.
· Molecular weight	177.99 g/mol

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

- 10.1 Reactivity: No further relevant information available.
- · 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided: Loss of constitutional water on heating
- **10.3 Possibility of hazardous reactions:** No further relevant information available.
- Exothermic reaction with strong acids, antipyrine, lead acetate
- 10.4 Conditions to avoid: High temperatures
- 10.5 Incompatible materials: Avoid contact with: strong oxidizers
- strong acids
- 10.6 Hazardous decomposition products: In case of fire: see section 5

#### **SECTION 11: Toxicological information**

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

- Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:
- *Oral LD50 17,000 mg/kg (rat)*
- · 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.
- · 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.

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- Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards:
- Endocrine disrupting properties: No relevant information available

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

#### · 12.1 Toxicity:

· Aquatic toxicity:

EC50/48h 1,089 mg/l (Daphnia magna)

- · 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.
- · 12.5 Results of PBT and vPvB assessment:
- **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects:
- · Remark: LC50/48 h (Fisch): 467 mg/l
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- *Recommendation Dispose of in accordance with official regulations.*
- · Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

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

# SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 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 Maritime transport in bulk according t instruments	t <b>o IMO</b> Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

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· UN ''Model Regulation'':

Void

## **SECTION 15: Regulatory information**

- $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- · Regulated explosives precursors Substance is not listed.
- Regulated poisons Substance is not listed.
- · Reportable explosives precursors Substance is not listed.
- · Reportable poisons Substance is not listed.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- Substance is not listed.
- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- Substance is not listed.
- Annex II REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.
- Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed.
- · National regulations:
- Water hazard class: Water hazard class 1 (Assessment by list): 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
- Date of previous version: 08.04.2025
- 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 (UK REACH)

- *vPvB: very persistent, very bioaccumulative substance (UK REACH)*
- UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
- GB CLP: Regulation on classification, labelling and packaging of substances and mixtures
- bw: body weight

ADR: Accord relatif au transport international 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) LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- *PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*