Version number 4

Printing date 25.02.2022

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| · 1.1 Product identifier · Trade name: Kanamycin sulfd | serve SERVe |
|---|---|
| | serving scientist |
| • Article number: 26897 • CAS Number: | |
| 5965-95-7 | |
| | the substance or mixture and uses advised against |
| No further relevant informatio | |
| · Application of the substance / | the mixture: Laboratory chemicals |
| \cdot 1.3 Details of the supplier of t | he safety data sheet |
| · Manufacturer/Supplier: | |
| SERVA Electrophoresis GmbH | |
| Carl-Benz-Str. 7 | , Ca |
| D-69115 Heidelberg | |
| <i>Tel.:</i> +49 6221 13840-0 | Contraction |
| FAX: +49 6221 13840-10 | 672 |
| msds.info@serva.de | |
| v 1 | luct Safety department Tel.: +49 6221 13840-35 |
| 1.4 Emergency telephone num | |
| Medical Emergency Information | |
| • | inz - Phone: +49 (0) 6131 19240 |
| (advisory service in German o | r English language) |
| | |
| SECTION 2: Hazards iden | ification |
| GHS08 | |
| GHS08 | |
| GHS08 Repr. 1A H360 May damage f | ertility or the unborn child. |
| Repr. 1A H360 May damage f 2.2 Label elements | |
| Repr. 1A H360 May damage f 2.2 Label elements Labelling according to Regula | ttion (EC) No 1272/2008: |
| Repr. 1A H360 May damage f 2.2 Label elements Labelling according to Regula The substance is classified and | |
| Repr. 1A H360 May damage f 2.2 Label elements Labelling according to Regula The substance is classified and Hazard pictograms: GHS08 | ttion (EC) No 1272/2008: |
| Repr. 1A H360 May damage f 2.2 Label elements Labelling according to Regula The substance is classified and Hazard pictograms: GHS08 Signal word: Danger | ttion (EC) No 1272/2008: |
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SECTION 3: Composition/information on ingredients

· 3.1 Substances

- · CAS No. Description:
- 5965-95-7 Kanamycin sulfate-H₂O
- · Description:
- · Empirical formula: $C_{18}H_{36}N_4O_{11}*H_2SO_4*H_2O$
- **MW:** 600.6 g/mol

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.
- · After eye contact:

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.

· After swallowing:

Wash out mouth instantly. Drink copious amounts of water and provide fresh air. Call for doctor immediately.

Do not induce vomiting!

- 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:
- CO₂, 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) Sulphur oxides (SOx)

Carbon monoxide and carbon dioxide

- · 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 formation of dust.
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 item 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.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling: No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- \cdot Requirements to be met by storerooms and receptacles: Store at +2 to +8 °C
- · Information about storage in one common storage facility: Store away from oxidising agents.
- *Further information about storage conditions:* Store under lock and key and with access restricted to technical experts or their assistants only. 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

- · 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 item 7.
- · Individual protection measures, such as personal protective equipment:
- 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:** Short term filter device: Filter P3.
- 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.

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| SECTION 9: Physical and chemical propertie | 'S |
|--|---|
| • 9.1 Information on basic physical and chemical p | roperties |
| · General Information: | - |
| · Physical state: | Solid. |
| · Colour: | white to almost white |
| · Odour: | Light |
| 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 |
| Lower and upper explosion limit: | - |
| Lower: | no information available |
| Upper: | no information available |
| Flash point: | no information available |
| Decomposition temperature: | no information available |
| pH: | 6.5-8.5 |
| 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 |
| Important information on protection of health and environment, and on safety: | d |
| Explosive properties: | Product is not explosive. However, formation of |
| Expressive properties. | explosive dust-/air mixtures are possible. |

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 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 4,000 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.

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- 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: May damage fertility or the unborn child.
- 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.
- · 11.2 Information on other hazards:
- Endocrine disrupting properties: Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity:
- · Aquatic toxicity:

EC50/48h 115 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:
- Additional ecological information:
- · General notes:
- Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must be specially treated adhering to official regulations. Disposal must be made according to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- · Recommendation:

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

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

SECTION 14: Transport information · 14.1 UN number or ID number · ADR, ADN, IMDG, IATA · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA · ADR, ADN, IMDG, IATA · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class: Void

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|---|--|
| · 14.4 Packing group · ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| • 14.7 Maritime transport in bulk according instruments | to IMO 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

- · 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 (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
- Version number of previous version: 3
- 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

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

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Repr. 1A: Reproductive toxicity – Category 1A (Contd. of page 6)

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