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| SECTION 1: Identification of | the substance/mixture and of | the company/undertaking |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------|
| · 1.1 Product identifier | | CFD1/A |
| · Trade name: <u>SERVALYT™ Carr</u> | ier Ampholyt | serving scientists |
| • Article number: 42926 • 1.2 Relevant identified uses of the No further relevant information av • Application of the substance / the | vailable. | udvised against |
| 1.3 Details of the supplier of the second state of the supplier: 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 Information department: Product | | 1 13840-35 |
| 1.4 Emergency telephone number Medical Emergency Information i Poison Information Center Mainz (advisory service in German or End | r: n case of poisoning: - Phone: +49 (0) 6131 19240 | 1 1 3 6 4 0 - 5 5 |
| | | |
| SECTION 2: Hazards identified | cation | |
| • 2.1 Classification of the substanc • Classification according to Regul The product is not classified acco | lation (EC) No 1272/2008 | |
| 2.2 Label elements Labelling according to Regulatio Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards Results of PBT and vPvB assessm PBT: PBT - assessment not availa vPvB: vPvB - assessment not availa | nent ıble. | |
| | | |
| SECTION 3: Composition/infe | ormation on ingredients | |
| 3.2 Chemical characterisation: M. Description: 40 % (w/v) aqueous solution of am comprising sulfonate, carl | | |
| • Dangerous components: Void | | |
| SECTION 4: First aid measur | ·es | |
| • 4.1 Description of first aid measu • General information No special <i>n</i> • After inhalation Supply fresh air. • After skin contact Immediately rin | r res neasures required. | |
| • Aner skin contact immediaterv m | | |

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· 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 In case of complaints.

- After swallowing Seek medical treatment.
- 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: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur dioxide (SO₂) Ammonia (NH₃) • **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 Ensure adequate ventilation Wear protective clothing. Avoid contact with the eyes and skin.
 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course. 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
- \cdot Requirements to be met by storerooms and receptacles: Store at +2 to +8 °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.

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| Additional information about design | of technical systems: No further data; see item 7. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | of teenneui systems. No furnier duid, see tiem 7. |
| 8.1 Control parameters | • • • • • • • • • • • • • • • • • • • • |
| Components with limit values that re | |
| | relevant quantities of materials with critical values that have to |
| monitored at the workplace. | |
| Additional information: The lists that | t were valid during the creation were used as basis. |
| 8.2 Exposure controls | |
| Personal protective equipment | |
| General protective and hygienic mea | |
| Keep away from foodstuffs, beverages | s and feed. |
| Store protective clothing separately. | |
| Immediately remove all soiled and co | ontaminated clothing |
| Avoid contact with the eyes and skin. | |
| Wash hands before breaks and at the | |
| | ratory protective device recommended. |
| Protection of hands: | |
| Protective gloves. | 11 1 1 1 1 1 1 1 1 1 1 1 |
| | eable and resistant to the product/ the substance/ the preparation. |
| - | tion to the glove material can be given for the product/ the preparation |
| the chemical mixture. | |
| | consideration of the penetration times, rates of diffusion and t |
| degradation | |
| Material of gloves | does not only depend on the material but also on further marks |
| | to does not only depend on the material, but also on further marks |
| quality and varies from manufacturer | to manufacturer. to does not only depend on the material, but also on further marks |
| | |
| | urar to manufacturar As the product is a preparation of save |
| | |
| substances, the resistance of the glo | |
| substances, the resistance of the glo checked prior to the application. | |
| substances, the resistance of the glo checked prior to the application. Penetration time of glove material | we material can not be calculated in advance and has therefore to |
| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b | we material can not be calculated in advance and has therefore to |
| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b observed. | we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has to |
| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b observed. For the permanent contact of a ma | we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has to |
| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b observed. For the permanent contact of a ma suitable: | we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has to |
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| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b observed. For the permanent contact of a ma suitable: Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses | we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has to aximum of 15 minutes gloves made of the following materials o |
| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b observed. For the permanent contact of a ma suitable: Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clo | we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has to aximum of 15 minutes gloves made of the following materials d thing. |
| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b observed. For the permanent contact of a ma suitable: Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clo SECTION 9: Physical and chemin | we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has to aximum of 15 minutes gloves made of the following materials a thing. cal properties |
| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b observed. For the permanent contact of a ma suitable: Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clo SECTION 9: Physical and chemic 9.1 Information on basic physical an | we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has to aximum of 15 minutes gloves made of the following materials o thing. cal properties |
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| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b observed. For the permanent contact of a ma suitable: Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clo SECTION 9: Physical and chemit 9.1 Information on basic physical and General Information Appearance: Form: | we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has to aximum of 15 minutes gloves made of the following materials of thing. cal properties id chemical properties Fluid Light brown |
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| substances, the resistance of the glo checked prior to the application. Penetration time of glove material The exact break trough time has to b observed. For the permanent contact of a ma suitable: Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clo SECTION 9: Physical and chemic 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: | we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has to aximum of 15 minutes gloves made of the following materials of thing. cal properties id chemical properties Fluid Light brown uncharacteristic Not determined. |

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| Initial boiling point and boiling range | (Contd. of page | |
|-----------------------------------------|-----------------------------------------------|--|
| | | |
| Flash point: | no information available | |
| Flammability (solid, gaseous) | no information available | |
| Ignition temperature: | | |
| Decomposition temperature: | no information available | |
| Self igniting: | Product is not selfigniting. | |
| Explosive properties: | Product does not present an explosion hazard. | |
| Explosion limits: | | |
| Lower: | no information available | |
| Upper: | no information available | |
| Vapour pressure: | Not applicable. | |
| Density: | no information available | |
| Relative density | no information available | |
| Vapour density | no information available | |
| Evaporation rate | no information available | |
| Solubility in / Miscibility with | | |
| Water: | Fully miscible | |
| Partition coefficient: n-octanol/water: | no information available | |
| Viscosity: | | |
| dynamic: | no information available | |
| kinematic: | Not applicable. | |
| | no information available | |
| Solvent content: | | |
| Organic solvents: | 0.0 % | |
| <i>VOC %:</i> | 0.00 % | |
| 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 dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known

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.

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- 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 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

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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, IMDG, IATA | Void | |
| 14.5 Environmental hazards: | | |
| Marine pollutant: | No | |
| 14.6 Special precautions for user | Not applicable. | |
| 14.7 Transport in bulk according to Anna | ex II of | |
| Marpol and the IBC Code | Not applicable. | |

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· Transport/Additional information:

Not dangerous according to the above specifications.

· ADR

· Transport category

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 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

 \cdot * Data compared to the previous version altered.

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