US

Safety Data Sheet acc. to OSHA HCS

Printing date 01/02/2023

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Reviewed on 01/02/2023

1 Identification	
· Product identifier	
· Trade name: IEF Marker 3-10, Liquid Mix	CEDI/A
• Article number: 39212	JEKVA
• Article number: 57212 • Application of the substance / the mixture: Laboratory chemicals	serving scientists
• Details of the supplier of the safety data sheet	\sim
· Manufacturer/Supplier:	
SERVA Electrophoresis GmbH	
Carl-Benz-Str. 7 D-69115 Heidelberg	
<i>Tel.:</i> +49 6221 13840-0	(λ)
FAX: +49 6221 13840-10	U
msds.info@serva.de	
· Information department: Product Safety department Tel.: +49 6221 13840-35	
• Emergency telephone number:	
Medical Emergency Information in case of poisoning: Poison Information Center Mainz - Phone: +49 (0) 6131 19240	
(advisory service in German or English language)	
Hazard(s) identification	
The product is not classified, according to the Globally Harmonized System (Gi • Label elements • GHS label elements Void • Hazard pictograms: Void • Signal word: Void • Hazard statements: Void • Classification system: • NFPA ratings (scale $0 - 4$) Health = 0 Fire = 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTHImage: OFIREImage: OREACTIVITYReactivity = 0	
• Other hazards • Results of PBT and vPvB assessment:	
• PBT: PBT - assessment not available. • vPvB: vPvB - assessment not available.	
Composition/information on ingradiants	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	
• Description: Ready- to- use aqueous protein standard solution	
• Dangerous components: Void	(Costil 2)
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• Additional information:

the product contains no further substances which shall be indicated according to REACH-Regulation (Regulation (EC) No. 1907/2006).

4 First-aid measures

- · 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 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 In case of complaints.

- After swallowing: Wash out the mouth and call a doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- · Suitable extinguishing agents:

CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.

- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up
- Dispose contaminated material as waste according to item 13.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Protective Action Criteria for Chemicals · PAC-1: 56-81-5 glycerol 45 mg/m^3 · PAC-2: 56-81-5 glycerol $180 \ mg/m^{3}$ · PAC-3: 56-81-5 glycerol $1,100 \text{ mg/m}^3$ · 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.

7 Handling and storage

· Precautions for safe handling:

Avoid contact with eyes and skin.

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No special measures required.

• Information about protection against explosions and fires: No special measures required.

· 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.

• *Specific end use(s): No further relevant information available.*

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

56-81-5 glycerol (5-15%)

PEL Long-term value: 15* 5** mg/m³

mist; *total dust **respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

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

- · Exposure controls
- Additional information about design of technical systems: No further data; see item 7.
- · Personal protective equipment:
- \cdot General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

- 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.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• 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

- Eve protection: Safety glasses
- · **Body protection:** Protective work clothing

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10 Stability and reactivity

· Reactivity: No further relevant informations available

- · Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No further relevant informations available.
- · Conditions to avoid: No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- Hazardous decomposition products: No further relevant informations available.

11 Toxicological information

· Information on toxicological effects

- · Acute toxicity: Based on available data, the classification criteria are not met.
- \cdot on the skin: Based on available data, the classification criteria are not met.
- \cdot on the eye: Based on available data, the classification criteria are not met.
- Sensitization: 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.

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- Specific target organ toxicity single exposure:
- Based on available data, the classification criteria are not met.
- · Specific target organ toxicity repeated exposure:
- Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- \cdot Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity:
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · Bioaccumulative potential: No further relevant information available.
- *Mobility in soil:* No further relevant information available.
- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects:
- · Additional ecological information:
- · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

- · 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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
· Packing group		
· DOT, ADR, IMDG, IATA	Void	

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· Environmental hazards · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN ''Model Regulation'':	Void

15 Regulatory information

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ection 355 (extremely hazardous substances):	
one of the ingredients is listed.	
ection 313 (Specific toxic chemical listings):	
one of the ingredients is listed.	
SCA (Toxic Substances Control Act):	
56-81-5 glycerol	ACTIVI
001-99-4 Nuclease, ribo-	ACTIVI
32-08-0 Amylase, gluco-	ACTIVI
azardous Air Pollutants	· · · · · · · · · · · · · · · · · · ·
one of the ingredients is listed.	
oposition 65	
one of the ingredients is listed.	
hemicals known to cause cancer:	
one of the ingredients is listed.	
hemicals known to cause reproductive toxicity for females:	
one of the ingredients is listed.	
hemicals known to cause reproductive toxicity for males:	
one of the ingredients is listed.	
hemicals known to cause developmental toxicity:	
one of the ingredients is listed.	
incerogenity categories	
PA (Environmental Protection Agency)	
one of the ingredients is listed.	
LV (Threshold Limit Value)	
one of the ingredients is listed.	
OSH-Ca (National Institute for Occupational Safety and Health)	
one of the ingredients is listed.	
HS label elements Void	
azard pictograms Void	

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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 preparation / last revision 01/02/2023 · 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 DOT: US Department of Transportation IATA: International Air Transport Association 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit