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Identification	
I Identification	
· Product identifier	CFD\/A
· Trade name: Polyethylene glycol 40 000	
• Article number: 33139	
· CAS Number:	
25322-68-3	
· NLP Number:	
500-038-2	NO.
• Application of the substance / the mixture: Laboratory chemicals	
• Details of the supplier of the safety data sheet	
· Manufacturer/Supplier:	
SERVA Electrophoresis GmbH Carl-Benz-Str. 7	
D-69115 Heidelberg	. 6
Tel.: +49 6221 13840-0	
FAX: +49 6221 13840-10	5
msds.info@serva.de	1
• Information department: Product Safety Department Tel.: +49 6221	13840-35
• Emergency telephone number:	= =
Emergency medical information in case of poisoning	
Poison Information Center Mainz-Tel: +49 (0) 6131 19240	
(Advice in German and English)	
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 (Advice in German and English) Chazard(s) identification Classification of the substance or mixture The substance is not classified, according to the Globally Harmonized 	l System (GHS).
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(Advice in German and English) Plazard(s) identification • Classification of the substance or mixture The substance is not classified, according to the Globally Harmonized • Label elements • GHS label elements Void • Hazard pictograms: Void • Hazard statements: Void • Classification system: • NFPA ratings (scale 0 - 4) Health = 0 Fire = 1 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 Fire = 1 Reactivity = 0 • Other hazards	l System (GHS).

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:
- 25322-68-3 Polyethylene glycol · *Identification number(s):*
- *NLP Number:* 500-038-2
- Description:
- MW: 25000 40000

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:
- 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 existing 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.
- 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.

<u>5 Fire-fighting</u> measures

- · Extinguishing media
- · Suitable extinguishing agents:
- *CO₂* extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- \cdot Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Carbon monoxide and carbon dioxide
- · Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing. Avoid formation of dust. 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 section 13. Pick up mechanically.
- · Protective Action Criteria for Chemicals
- · PAC-1: 30 mg/m³
- · PAC-2: 1,300 mg/m³
- · PAC-3: 7,700 mg/m³
- **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.

7 Handling and storage

• **Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. No special measures required.

- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · 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 container tightly closed and dry.
- 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:

25322-68-3 Polyethylene glycol (80-100%)

WEEL Long-term value: 10 mg/m³ (H); MW>200

• 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 section 7.
- · 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: 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.

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

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Information on basic physical and chemical	properties
General Information: Color:	White
Odor:	White Odorless
Odor threshold:	Not determined.
Melting point/Melting range:	\geq 57 °C (\geq 134.6 °F)
Boiling point/Boiling range:	No information available
Flammability (solid, gaseous):	Based on available data, the classification criteria fo
	flammable solids are not met.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	260 °C (500 °F)
Auto igniting:	>320 °C (>608 °F)
Decomposition temperature:	360 °C (680 °F)
pH-value:	4.5-7.5
Viscosity:	
Kinematic viscosity at 20 °C (68 °F):	10000 - 13000 mm²/s (50 % in H ₂ O)
Dynamic viscosity at 20 °C (68 °F):	11,000-14,000 mPas (50 % in H2O)
Solubility in / Miscibility with:	
Water at 20 °C (68 °F):	500 g/l
Partition coefficient (n-octanol/water):	log Pow: < -1
Vapor pressure at 20 °C (68 °F):	>0.01 hPa (>0 mm Hg)
Vapor pressure:	
Density at 20 °C (68 °F):	~1.2 g/cm ³ (~10.014 lbs/gal)
Relative density:	No information available
Other information	
Appearance:	
Form:	Flakes
Important information on protection of healt	h and
environment, and on safety:	
Danger of explosion:	The product is not explosive, but the formation of
9 .9 <u>F</u>	explosive dust/air mixtures is possible.
Molecular weight	25,000-40,000 g/mol

10 Stability and reactivity

· Reactivity: No further relevant information available.

· Chemical stability:

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No further relevant information available.
- · Conditions to avoid: Avoid high temperatures, flames, sparks
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: In case of fire: see section 5

11 Toxicological information

· Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)

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LC50/96h >100 mg/l (Cyprinus carpio) (OECD Test Guideline 203)				
• 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.				

- 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.
- · 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.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity:
- Aquatic toxicity:
- LC50/48h (Leuciscus idus): > 10g/l
- EC50/48h >100 mg/l (Daphnia magna)
- · Persistence and degradability: The product is not readily biodegradable.
- · 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: Toxicity to bateria EC50 (OECD Test Guideline 209): >1000 mg/l
- Additional ecological information:
- · General notes:

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

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

13 Disposal considerations

- · 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.

14 Transport information

- · UN-Number
- · DOT, ADR, ADN, IMDG, IATA

Void

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· 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
· Environmental hazards	Not applicable.
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex 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

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65 Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 11/10/2023
- 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

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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	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
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	