Version number 3 (replaces version 2)

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1.1 Product identifier		
v		SERV
Trade name: <u>Polyethylene gly</u>	<u>ycol 40 000</u>	<pre>serving scient</pre>
Article number: 33139		
CAS Number:		
25322-68-3		
NLP Number:		
500-038-2		
1.2 Relevant identified uses o	f the substance or mixture and uses advis	ed against
No further relevant information		
	/ the mixture: Laboratory chemicals	
1.3 Details of the supplier of t	the safety data sheet	
Manufacturer/Supplier:		C.
SERVA Electrophoresis GmbH	Н 🔸	5
Carl-Benz-Str. 7	_	
D-69115 Heidelberg	6	<b>D</b> <sup>*</sup>
<i>Tel.:</i> +49 6221 13840-0	0.	ar
FAX: +49 6221 13840-10	O2	
nsds.info@serva.de		
v		
nformation department: Pro	duct Safety Department Tel.: +49 6221 13	8840-35
.4 Emergency telephone num		
<i>Emergency wedical information</i>		
	ainz-Tel: +49 (0) 6131 19240	
Counselling in German and E	ungusu)	
	CN	
SECTION 2: Hazards iden	ntification	
2.1 Classification of the subst		
	egulation (EC) No 1272/2008:	
The substance is not classified	l, according to the GB CLP regulation.	
2 I abol alamenta		
2.2 Label elements		
	lation (EC) No 1272/2008: Void	
Iazard pictograms: Void		
S <b>ignal word:</b> Void		
Hazard statements: Void		
.3 Other hazards		
Results of PBT and vPvB asso	essment:	
<b>BT:</b> PBT - Assessment not av		
<b>PvB:</b> vPvB - Assessment not at <b>PvB:</b> vPvB - Assessment not at		
Jetermination of endocrine-a	<b>disrupting properties</b> No relevant informat	tion available.
	/information on ingredients	
SECTION 3. Composition	any on marcanens	
SECTION 3: Composition/		
*		
.1 Substances		
2.1 Substances CAS No. Description:	al	
2.1 Substances CAS No. Description: 25322-68-3 Polyethylene glyco	col	
2.1 Substances CAS No. Description: 25322-68-3 Polyethylene glyco dentification number(s):	rol	
SECTION 3: Composition/ B.1 Substances CAS No. Description: 25322-68-3 Polyethylene glyco dentification number(s): Manuber: 500-038-2	rol	
2.1 Substances CAS No. Description: 25322-68-3 Polyethylene glyco dentification number(s): NLP Number: 500-038-2 Description:	rol	
.1 Substances TAS No. Description: 5322-68-3 Polyethylene glyco dentification number(s): TLP Number: 500-038-2	rol	

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## **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:
- $CO_2$ , 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

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

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

 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Avoid formation of dust. 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. No special measures required.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · 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.

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• 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:
- 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.
- 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 c	chemical properties
· General Information:	
· Physical state:	Solid.
· Colour:	White
· Odour:	Odourless
• Odour threshold:	Not determined.
• Melting point/freezing point:	<i>≥</i> 57 ° <i>C</i>
· Boiling point or initial boiling point and	d boiling
range:	No information available
· Flammability:	Based on available data, the classification criteria for
	flammable solids are not met.
• Lower and upper explosion limit:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	260 °C
• Auto-ignition temperature:	>320 °C
• Decomposition temperature:	360 °C

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· pH:	4.5-7.5
· Viscosity:	
· Kinematic viscosity at 20 °C:	10000 - 13000 mm²/s (50 % in H <sub>2</sub> O)
• Dynamic viscosity at 20 °C:	11,000-14,000 mPas (50 % in H2O)
· Solubility:	
• Water at 20 •C:	500 g/l
· Partition coefficient n-octanol/water (log value):	log Pow: < -1
• Vapour pressure at 20 °C:	>0.01 hPa
· Density and/or relative density:	
· Density at 20 °C:	$\sim 1.2 \ g/cm^3$
· Relative density:	No information available
· Particle characteristics	No information available
• 9.2 Other information	
· Appearance:	
· Form:	Flakes
• Important information on protection of health and environment, and on safety:	,
· Explosive properties:	The product is not explosive, but the formation of explosive dust/air mixtures is possible.
· Molecular weight	25,000-40,000 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: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No further relevant information available.
- · 10.4 Conditions to avoid: Avoid high temperatures, flames, sparks
- 10.5 Incompatible materials: No further relevant information available.
- 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:

		5
Oral	LD50	>5,000 mg/kg (rat)
Dormal	1 D 50	>5,000 ma/ka (rat)

LD50>5,000 mg/kg (rat)LC50/96h>100 mg/l (Cyprinus carpio) (OECD Test Guideline 203)

· 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.

· Aspiration hazard: Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards:

• Endocrine disrupting properties:

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

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## SECTION 12: Ecological information

- · 12.1 Toxicity:
- · Aquatic toxicity:
- LC50/48h (Leuciscus idus): > 10g/l

EC50/48h >100 mg/l (Daphnia magna)

- · 12.2 Persistence and degradability: The product is not readily biodegradable.
- · 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: 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 (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 instruments	to IMO Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN ''Model Regulation'':	Void

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# **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 (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: 26.07.2017
- Version number of previous version: 2
- · 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