Printing date 07/17/2023 Reviewed on 07/17/2023

1 Identification

· Product identifier

· Trade name: Gelrite®

· Article number: 22168

• CAS Number: 71010-52-1 • EC number:

275-117-5

· 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 Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10 msds.info@serva.de

· Information department: Security Department Tel.: +49 6221 13840-35

· Emergency telephone number:

Medical emergency information in case of poisoning Poison Information Center Mainz-Tel: +49 (0) 6131 19240 (Advice in German and English)

2 Hazard(s) identification

· Classification of the substance or mixture
The substance is not classified, according to the Globally Harmonized System (GHS).

- · 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 = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 0Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment:

· PBT: PBT - Assessment not available.

· vPvB: vPvB - Assessment not available.

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Printing date 07/17/2023 Reviewed on 07/17/2023

Trade name: Gelrite®

(Contd. of page 1)

3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description: 71010-52-1 Gellan gum · Identification number(s):

· EC number: 275-117-5

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. Consult an ophthalmologist immediately.

- · After swallowing: Rinse mouth immediately. Drink plenty of water and fresh air. Call a doctor immediately.
- · 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:

 CO_2 extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

During heating or in case of fire formation of poisonous and caustic gases is possible.

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.

Ensure adequate ventilation

Avoid formation of dust.

- · 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: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.
- · 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.

US

Printing date 07/17/2023 Reviewed on 07/17/2023

Trade name: Gelrite®

(Contd. of page 2)

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:

This product is hygroscopic.

Protect from humidity and water.

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: Not required.
- · 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.

· 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 protection: Safety glasses

· Body protection: Protective work clothing

TIC

Printing date 07/17/2023 Reviewed on 07/17/2023

Trade name: Gelrite®

(Contd. of page 3)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information:

• Color: White
 • Odor: Odorless
 • Odor threshold: Not determined.

Melting point/Melting range:
 Boiling point/Boiling range:
 Flammability (solid, gaseous):

No information available
No information available

· Explosion limits:

· Lower: No information available

· Upper: Not determined.

Flash point: No information available
 Decomposition temperature: No information available

· pH-value: 6-8

· Viscosity:

Kinematic viscosity:
 Dynamic viscosity:
 No information available
 No information available

· Solubility in / Miscibility with:

· Water: Soluble.

Partition coefficient (n-octanol/water):
 Vapor pressure:
 No information available
 No information available

· Vapor pressure:

Density: No information available
 Relative density: No information available

· Other information

· Appearance:

· Form: Powder

· Important information on protection of health and

environment, and on safety:
Danger of explosion:
The product is not explosive, but the formation of

explosive dust/air mixtures is possible.

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: Humidity
- · Incompatible materials: Avoid contact with strong oxidizers.
- · 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 v	alues i	that	are	relevant	for	classification:

Oral	<i>LD50</i>	>5,000 mg/kg (rat
Inhalative	LC50/4h	>5.09 mg/l (rat)

- · on the skin: 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.

(Contd. on page 5)

Printing date 07/17/2023 Reviewed on 07/17/2023

Trade name: Gelrite®

(Contd. of page 4)

- · 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: 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:

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

Water hazard class 2 (Assessment by list): 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.

· 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, ÎMDG, IATA	Void	

(Contd. on page 6)

Printing date 07/17/2023 Reviewed on 07/17/2023

Trade name: Gelrite®

	(Contd. of page 5)
· Environmental hazards	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 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: Security department
- · Contact: +49 6221 13840-35
- · Date of preparation / last revision 07/17/2023
- · 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 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

(Contd. on page 7)

Printing date 07/17/2023 Reviewed on 07/17/2023

Trade name: Gelrite®

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

(Contd. of page 6)