Printing date 05/03/2018

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Reviewed on 09/04/2008

Product identifier	CFD\/A
Trade name: <u>Agarose SERVA for PCR Low Melting</u>	serving scientists
Article number: 11384	
CAS Number:	
9012-36-6	
EC number:	
232-731-8	"NO"
Application of the substance / the mixture Laboratory chemica	als
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
SERVA Electrophoresis GmbH	
Carl-Benz-Str. 7	· Co.
D-69115 Heidelberg Tel.: +49 6221 13840-0	
FAX: +49 6221 13840-0 FAX: +49 6221 13840-10	G
msds.info@serva.de	0.2
,	(22) 120/0 25
Information department: Product Safety department Tel.: +49	0221 13840-33
<i>Emergency telephone number:</i> <i>Medical Emergency Information in case of poisoning:</i>	/
Poison Information Center Mainz - Phone: +49 (0) 6131 19240)
(advisory service in German or English language)	,
Hazard(s) identification	
Classification of the substance or mixture	
	onized System (GHS).
	(
The substance is not classified according to the Globally Harm	
The substance is not classified according to the Globally Harm Label elements	
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The substance is not classified according to the Globally Harm Label elements GHS label elements Void Hazard pictograms Void	
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3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 9012-36-6 Agarose
- Identification number(s)
- EC number: 232-731-8

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 rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Information for 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:
- 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
- In case of fire, the following can be released: Carbon monoxide and carbon dioxide
- · 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.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Prevent formation of dust.
- 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: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in dry conditions.
- Specific end use(s) No further relevant information available.

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8 Exposure controls/personal pro	otection
· Additional information about desi	gn of technical systems: No further data; see item 7.
 Control parameters Components with limit values that 	t require monitoring at the workplace: Not required. That were valid during the creation were used as basis.
 Exposure controls Personal protective equipment: General protective and hygienic m The usual precautionary measures Breathing equipment: Suitable res Protection of hands: The glove material has to be imper Due to missing tests no recommend the chemical mixture. Selection of the glove material of degradation Material of gloves The selection of the suitable glov quality and varies from manufactual The exact break trough time has to observed. 	teasures: for handling chemicals should be followed. spiratory protective device recommended. meable and resistant to the product/ the substance/ the preparation. dation to the glove material can be given for the product/ the preparation on consideration of the penetration times, rates of diffusion and the ves does not only depend on the material, but also on further marks of rer to manufacturer. b be found out by the manufacturer of the protective gloves and has to be maximum of 15 minutes gloves made of the following materials ar
9 Physical and chemical propertion • Information on basic physical and • General Information	
 Information on basic physical and General Information 	
 Information on basic physical and General Information Appearance: Form: 	l chemical properties Powder
 Information on basic physical and General Information Appearance: Form: Color: 	l chemical properties Powder White
 Information on basic physical and General Information Appearance: Form: Color: Odor: 	l chemical properties Powder White Recognizable
 Information on basic physical and General Information Appearance: Form: Color: 	l chemical properties Powder White Recognizable
 Information on basic physical and General Information Appearance: Form: Color: Odor: pH-value (15 g/l) at 60 °C (140 °F) 	l chemical properties Powder White Recognizable
 Information on basic physical and General Information Appearance: Form: Color: Odor: pH-value (15 g/l) at 60 °C (140 °F Change in condition Melting point/Melting range: Boiling point/Boiling range: 	A chemical properties Powder White Recognizable T): 6 88.3 °C (191 °F)
 Information on basic physical and General Information Appearance: Form: Color: Odor: pH-value (15 g/l) at 60 °C (140 °F Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: 	l chemical properties Powder White Recognizable T): 6 88.3 °C (191 °F) Undetermined. Not applicable.
 Information on basic physical and General Information Appearance: Form: Color: Odor: pH-value (15 g/l) at 60 °C (140 °F Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): 	I chemical properties Powder White Recognizable T): 6 88.3 °C (191 °F) Undetermined. Not applicable. Product is not flammable.
 Information on basic physical and General Information Appearance: Form: Color: Odor: pH-value (15 g/l) at 60 °C (140 °F Change in condition Melting point/Melting range: Boiling point/Boiling range: 	l chemical properties Powder White Recognizable T): 6 88.3 °C (191 °F) Undetermined. Not applicable.

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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 dangerous reactions known.
- *Conditions to avoid* No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

- · 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.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

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Transport information	
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
Environmental hazards: Marine pollutant:	No
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
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): 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 established by ACGIH) 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 05/03/2018 / 1
- 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)

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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
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
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
• * Data compared to the previous version altered.