

Safety data sheet

according to 1907/2006/EC, Article 31

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Printing date 04.02.2021 Revision: 04.02.2021 Version number 5.00

SECTION 1: Identification of the substance/mixture undertaking	e and of the company/		
· 1.1 Product identifier			
Trade name: <u>Agarose</u>			
 Article number: A2114 CAS Number: 9012-36-6 EC number: 232-731-8 Registration number A registration number is not available for this substance as the annua registration. 1.2 Relevant identified uses of the substance or mixture and uses No further relevant information available. Application of the substance / the mixture Biochemistry Laboratory chemical 			
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: AppliChem GmbH Ottoweg 4 D-64291 Darmstadt Further information obtainable from: Dept. Compliance 1.4 Emergency telephone number: +49(0)6151 93570 (Inside normal 	Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com		
SECTION 2: Hazards identification			
 • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 The substance is not classified, according to the CLP regulation. 			
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 			

• **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

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

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: Immediately rinse with water. If skin irritation continues, consult a doctor.
- · After eve contact: Rinse opened eye for several minutes under running water. Seek medical treatment.
- · After swallowing: Rinse out mouth.
- If symptoms persist consult 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: Water, CO2, foam, powder.
- Use fire extinguishing methods suitable to surrounding conditions. · 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Non-combustible. 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Do not inhale 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: Pick up mechanically.
- Avoid formation of dust.
- Clean up affected area.
- · 6.4 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.

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SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Provide suction extractors if dust is formed.
- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 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: Keep container sealed.
- · Recommended storage temperature: Room Temperature
- Storage class: 13
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
 General protective and hygienic measures:
- Immediately remove all soiled and contaminated clothing Respiratory protection:
- Filter P1
- Required when dusts are generated.
- Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

- Value for the permeation: Level \geq 480 min
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- Recommended thickness of the material: $\geq 0.11 \mbox{ mm}$
- Value for the permeation: Level $\geq 480~\text{min}$
- · Eye/face protection Safety glasses
- · Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

 $^{\rm \cdot}$ 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Solid

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Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.
Melting point/freezing point:	~88 °C
Boiling point or initial boiling point and boili	
range	Undetermined.
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
	Natapplicable
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	Caluble
water:	Soluble.
Partition coefficient n-octanol/water (log val	
Vapour pressure:	Not applicable.
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Appearance:	Powder
9.2 Other information Appearance: Form: Important information on protection of hea and environment, and on safety.	Powder I lth
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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 dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: In the event of fire: See chapter 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 relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

- · 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.
- · After inhalation: No irritant effect.
- · 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.
- Based on available data, the classification criteria are not met.
- · Reproductive toxicity

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

- **STOT cincle expective** Deced on evoluble date, the eleccification criteria a
- **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 Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- 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:** Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

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

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

- Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informatio	n	
 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 to IMO instruments Not applicable.		
· UN "Model Regulation":	Void	

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.

· 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: Dept. Compliance
- · Date of previous version: 04.02.2021
- · Version number of previous version: 4.01
- Abbreviations and acronyms:
 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 IATA: International Air Transport Association

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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 • * Data compared to the previous version altered.	(Contd. of page 6)
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