

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

• **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:  $\geq 0.11$  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 <b>lth</b>
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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	
<ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
· 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 • <b>* Data compared to the previous version altered.</b>	(Contd. of page 6)
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