United Kingdom (en)

# Safety data sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## Agar-Agar BioScience-Grade powder

#### article number: **6494** Version: **5.0 en** Replaces version of: 2022-08-16 Version: (4)

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

| Identification of the substance                  | Agar-Agar BioScience-Grade powder      |
|--|--|
| Article number                                   | 6494                                   |
| EC number  | 232-658-1                              |
| CAS number                                       | 9002-18-0                              |
| Delevent identified uses of the substance or min | www.a.a.d.u.c.c.a.d.uic.ad.a.u.aiu.c.t |

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for private purposes (household). Food, drink and animal feedingstuffs.

### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

### e-mail (competent person):

## sicherheit@carlroth.de

### 1.4 Emergency telephone number

| Name   | Street    | Postal<br>code/city  | Telephone    | Website |
|--|-----------|----------------------|--------------|---------|
| National Poisons Information<br>Service<br>City Hospital | Dudley Rd | B187QH<br>Birmingham | 844 892 0111 |         |

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### **Classification acc. to GHS**

This substance does not meet the criteria for classification.

### 2.2 Label elements

#### Labelling

not required



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#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

| Name of substance | Agar-Agar |
|-------------------|-----------|
| CAS No            | 9002-18-0 |
| EC No             | 232-658-1 |

# SECTION 4: First aid measures

#### 4.1 Description of first aid measures



#### **General notes**

No special measures are necessary.

#### Following inhalation

Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes.

#### **Following ingestion**

Rinse mouth. Call a doctor if you feel unwell.

**4.2** Most important symptoms and effects, both acute and delayed Symptoms and effects are not known to date.

# **4.3 Indication of any immediate medical attention and special treatment needed** none

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, dry extinguishing powder, ABC-powder



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#### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Combustible.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO $_2$ ), May produce toxic fumes of carbon monoxide if burning.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

No special measures are necessary.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains. Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

No special measures are necessary.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

#### Incompatible substances or mixtures

Observe hints for combined storage.

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#### Consideration of other advice:

**Specific designs for storage rooms or vessels** Recommended storage temperature: 15 – 25 °C

**7.3** Specific end use(s) No information available.

# **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

#### **National limit values**

**Occupational exposure limit values (Workplace Exposure Limits)** This information is not available.

#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection.

#### **Skin protection**



• hand protection Hand protection is not required.

### **Respiratory protection**



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

| Physical state | solid                       |
|----------------|-----------------------------|
| Form           | acc. to product description |
| Colour         | white - dark beige          |
| Odour          | characteristic              |

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|   | Melting point/freezing point                             | not determined  |
|---|--|---|
|   | Boiling point or initial boiling point and boiling range | not determined  |
|   | Flammability   | this material is combustible, but will not ignite readily             |
|   | Lower and upper explosion limit                          | not determined  |
|   | Flash point  | not applicable  |
|   | Auto-ignition temperature                                | not determined  |
|   | Decomposition temperature                                | not relevant  |
|   | pH (value)   | 6 – 7,5 (in aqueous solution: 15 <sup>g</sup> / <sub>l</sub> , 25 °C) |
|   | Kinematic viscosity                                      | not relevant  |
|   | Solubility/ioc)  |   |
|   | Solubility(ies)  |   |
|   | Water solubility   | not determined  |
|   | Partition coefficient                                    |   |
|   | Partition coefficient n-octanol/water (log value):       | this information is not available                                     |
|   |  |   |
|   | Vapour pressure  | not determined  |
|   | Density and/or relative density                          |   |
|   | Density  | not determined  |
|   | •  | Information on this property is not available.                        |
|   | Relative vapour density                                  | information on this property is not available.                        |
|   | Particle characteristics                                 | No data available.  |
|   |  |   |
|   | Other safety parameters                                  |   |
|   | Oxidising properties                                     | none  |
| 2 | Other information  |   |
|   | Information with regard to physical hazard classes:      | hazard classes acc. to GHS<br>(physical hazards): not relevant        |
|   | Other safety characteristics:                            | There is no additional information.                                   |
|   |  |   |

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

9.2

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

- **10.4** Conditions to avoid There are no specific conditions known which have to be avoided.
- **10.5 Incompatible materials** There is no additional information.
- 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

#### **11.1** Information on toxicological effects

#### **Classification acc. to GHS**

This substance does not meet the criteria for classification.

#### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity |          |                                      |         |        |        |
|----------------|----------|--------------------------------------|---------|--------|--------|
| Exposure route | Endpoint | Value                                | Species | Method | Source |
| oral           | LD50     | 11.000 <sup>mg</sup> / <sub>kg</sub> | rat     |        |        |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

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#### If swallowed

Data are not available.

#### • If in eyes

Data are not available.

#### • If inhaled

Data are not available.

• If on skin

Data are not available.

#### Other information

Health effects are not known.

### **11.2** Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### 11.3 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

- **12.3 Bioaccumulative potential** Data are not available.
- **12.4 Mobility in soil** Data are not available.
- **12.5 Results of PBT and vPvB assessment** Data are not available.
- **12.6** Endocrine disrupting properties Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .
- **12.7 Other adverse effects** Data are not available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

#### Sewage disposal-relevant information

Do not empty into drains.



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#### Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

- 14.1 UN number or ID number
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

not assigned

not subject to transport regulations

none

not assigned

- non-environmentally hazardous acc. to the dangerous goods regulations
- **14.6** Special precautions for user There is no additional information.
- **14.7** Maritime transport in bulk according to IMO instruments The cargo is not intended to be carried in bulk.
- 14.8 Information for each of the UN Model Regulations

**International Maritime Dangerous Goods Code (IMDG) - Additional information** Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information** Not subject to ICAO-IATA.

## **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Seveso Directive

| 2012/ | 2012/18/EU (Seveso III)               |   |       |  |  |
|-------|---------------------------------------|---|-------|--|--|
| No    | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the ap-<br>plication of lower and upper-tier re-<br>quirements | Notes |  |  |
|       | not assigned                          |   |       |  |  |

#### **Deco-Paint Directive**

| VO | C content | 0 % |
|----|-----------|-----|
|    |           |     |

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| Industrial Emissions Directive (IED)                                     |  |
|--|--|
| VOC content  | 0 %  |
| Directive on the restriction of the use o<br>electronic equipment (RoHS) | f certain hazardous substances in electrical and |
| not listed   |  |
| Regulation concerning the establishme<br>Register (PRTR)                 | nt of a European Pollutant Release and Transfe   |
| not listed   |  |
| Water Framework Directive (WFD)  |  |
| not listed   |  |
| <b>Regulation on the marketing and use o</b><br>not listed               | f explosives precursors                          |
| Regulation on drug precursors  |  |
| not listed   |  |
| Regulation on substances that deplete<br>not listed                      | the ozone layer (ODS)                            |
| Regulation concerning the export and i                                   | mport of hazardous chemicals (PIC)               |
| not listed   |  |
| Regulation on persistent organic pollut<br>not listed                    | ants (POP)                                       |

#### National regulations(GB)

# List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

#### **Restrictions according to GB REACH, Annex 17**

not listed

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### **National inventories**

| Country | Inventory | Status              |
|---------|-----------|---------------------|
| AU      | AIIC      | substance is listed |
| CA      | DSL       | substance is listed |
| CN      | IECSC     | substance is listed |
| EU      | ECSI      | substance is listed |
| KR      | KECI      | substance is listed |
| NZ      | NZIoC     | substance is listed |
| PH      | PICCS     | substance is listed |
| TR      | CICR      | substance is listed |
| TW      | TCSI      | substance is listed |

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| Country   | Inventory  | Status  |
|---|--|---|
| US  | TSCA   | substance is listed (ACTIVE)  |
| VN  | NCI  | substance is listed   |
| Legend<br>AIIC<br>CICR<br>DSL<br>ECSI<br>IECSC<br>KECI<br>NCI<br>NZIOC<br>PICCS<br>TCSI<br>TCSI | Korea Existing Chemicals<br>National Chemical Inventor<br>New Zealand Inventory of | iontrol Regulation<br>(DSL)<br>EINECS, ELINCS, NLP)<br>mical Substances Produced or Imported in China<br>Inventory<br>ory<br>f Chemicals<br>emicals and Chemical Substances (PICCS)<br>ce Inventory |

TSCA Toxic Substance Control Act

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

#### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)  | Actual entry (text/value)   | Safety-<br>relev-<br>ant |
|---------|--|---|--------------------------|
| 2.3     |  | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at<br>a concentration of ≥ 0,1%. | yes                      |
| 14.8    | Transport of dangerous goods by road, rail and<br>inland waterway (ADR/RID/ADN) - Additional in-<br>formation:<br>Not subject to ADR, RID and ADN. |   | yes                      |
| 15.1    |  | National inventories:<br>change in the listing (table)  | yes                      |

### Abbreviations and acronyms

| Abbr.    | Descriptions of used abbreviations   |
|----------|--|
| ADR      | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern-<br>ing the International Carriage of Dangerous Goods by Road)                     |
| CAS      | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |
| DGR      | Dangerous Goods Regulations (see IATA/DGR)   |
| EC No    | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi-<br>fier of substances commercially available within the EU (European Union) |
| ED       | Endocrine disruptor  |
| EINECS   | European Inventory of Existing Commercial Chemical Substances  |
| ELINCS   | European List of Notified Chemical Substances  |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)   |
| GHS      | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na-<br>tions   |
| IATA     | International Air Transport Association  |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA)   |

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| Abbr. | Descriptions of used abbreviations   |
|-------|--|
| ICAO  | International Civil Aviation Organization  |
| IMDG  | International Maritime Dangerous Goods Code  |
| LD50  | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval   |
| NLP   | No-Longer Polymer  |
| PBT   | Persistent, Bioaccumulative and Toxic  |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals   |
| RID   | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula-<br>tions concerning the International carriage of Dangerous goods by Rail) |
| VOC   | Volatile Organic Compounds   |
| vPvB  | Very Persistent and very Bioaccumulative   |

#### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.