

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

**AGAR**

EN

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product name: Agar  
Agar  
Agar  
Agar  
Agar  
N° CAS: 9002-18-0  
N° EC: 232-658-1

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

Identified uses: Active Pharmaceutical Ingredient or Excipient.

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

Company: FAC SECUNDUM ARTEM NV  
Oostmalsebaan 1c (unit 5)  
2960 Sint-Lenaarts  
Belgium  
Telephone: (+32) (0)3 457 11 76  
Email: info@magis-pharma.be  
Web page: www.magis-pharma.be

### 1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance/mixture

#### Classification according to (EC) n° 1272/2008

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

### 2.2 Label elements

#### Labelling according to (EC) n° 1272/2008

Hazard pictogram(s): Not applicable.  
Signal word(s): Not applicable.  
Hazard statements: Not applicable.  
Precautionary statements: Not applicable.  
Additional applicable label elements: Not applicable.

### 2.3 Other hazards

Not available.

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## AGAR

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Product name:	Agar
IUPAC name:	(2R,3S,4S,5R)-2-(hydroxymethyl)-6-[[[(4R,5S)-4-hydroxy-3-methyl-2,6-dioxabicyclo[3.2.1]octan-8-yl]oxy]-4-methoxyoxane-3,5-diol
Synonyms:	D-galactose (1->4) 3,6 Anhydro-L-galactose
N° CAS:	9002-18-0
N° EC:	232-658-1
Molecular Formula:	C <sub>14</sub> H <sub>24</sub> O <sub>9</sub>
Content:	100 %

#### 3.2 Mixtures

Not applicable.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

General notes:	In all cases of doubt, or when symptoms persist, seek medical attention.
After inhalation:	Ensure supply of fresh air.
After skin contact:	When in contact with the skin, clean with soap and water.
After eye contact:	In case of contact with eyes rinse thoroughly with water.
After ingestion:	Rinse mouth thoroughly with water.

#### 4.2 Most important symptoms and effects, both acute and delayed

Not available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Not available.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media:	Carbon dioxide; Alcohol-resistant foam; Extinguishing powder; Water spray jet
Unsuitable extinguishing media:	High power water jet.

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

Combustion products of this material have to be classed invariably as respiratory poison.

#### 5.3 Advice for firefighters

Surrounding fires:	Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Protection against fire:	Use self-contained breathing apparatus.
Hazardous combustion products:	Not available.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up dry. Send in suitable containers for recovery or disposal. Clean thoroughly.

### 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Precautions for safe handling:

Avoid the formation and deposition of dust.

Personal protection:

Remove contaminated clothing. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Do not inhale dust.

Technical protective measures:

Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of ignition and flames.

Handling:

Not available.

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

Storage:

Not available.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed, cool and dry.

Storage – away from:

Do not store with strong oxidizing agents.

### 7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

No parameters available for monitoring.

### 8.2 Exposure controls

#### Appropriate engineering control

Provide good ventilation.

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## Individual protection measures

Eye/face protection:	Safety glasses recommended
Skin protection:	Not determined.
Hand protection:	Protective gloves (recommended).
Respiratory protection:	Use breathing apparatus in dust-laden atmosphere.
Thermal hazards:	Not determined.

## Environmental exposure control

Do not empty into drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	Powdery, crumpled ribbons 2-5 mm wide, or sometimes flakes, colorless or pale yellow, translucent, rather resistant and difficult to break, becoming brittle on drying.
Odour:	Marine-like
Odour threshold:	Not available.
pH:	6 - 8 pH range: Most stable at pH 4 to 10.
Melting/freezing point:	Not available.
Initial boiling point:	Not available.
Boiling range:	Not available.
Flash point:	> 250 °C
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility:	Not available.
Solubility in water:	Max. 5 %
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

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## 9.2 Other information

Swelling index:	10
Bulk density:	appr. 0.5 g/ml

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Not available.

### 10.2 Chemical stability

Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

Danger of dust explosion.

### 10.4 Conditions to avoid

The product is stable at ambient temperature. Heat, naked flames and other ignition sources.

### 10.5 Incompatible materials

Incompatible with strong oxidizing agents. Agar is dehydrated and precipitated from solution by ethanol (95%). Tannic acid causes precipitation. Electrolytes cause partial dehydration and decrease in viscosity of sols.

### 10.6 Hazardous decomposition products

Not available.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity:	Not available.
Skin corrosion/irritation:	Not available.
Serious eye damage/irritation:	Not available.
Respiratory/skin sensitisation:	Not available.
Germ cell mutagenicity:	Not available.
Carcinogenicity:	Not available.
Reproductive toxicity:	Not available.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Not available.
Other:	Not available.

### 11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Not available.
Skin contact:	Not available.
Inhalation:	Not available.

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Ingestion: Not available.

Aspiration: Not available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Not available.

### 12.5 Results of PBT and vPvB assessment

Not available.

### 12.6 Other adverse effects

Do not discharge product unmonitored into the environment.  
Do not allow to enter soil, waterways or waste water canal.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product:** Remove in accordance with local official regulations. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging:** Completely discharge containers. Do not reuse product container. Packaging that cannot be cleaned should be disposed off as product waste.

## SECTION 14: TRANSPORT INFORMATION

### Transport information according to ADR/RID/IMDG/ICAO/IATA

#### 14.1 UN Number

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Not classified.

#### 14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Not classified.

#### 14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Not classified.

#### 14.4 Packing group

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Not classified.

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## 14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 14.6 Special precautions for user

Not available.

## 14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not relevant

## 14.8 Additional transport information

The product is not subject to ADR/RID/AND, IMDG and ICAO-TI/IATA regulations.

## SECTION 15: REGULATORY INFORMATION

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

Hazard symbol: Not applicable.

Risk phrases: Not applicable.

Safety phrases: Not applicable.

### 15.2 Chemical safety assessment

Not available.

## SECTION 16: OTHER INFORMATION

### 16.1 Changes since the previous version

Not applicable.

### 16.2 Abbreviations and acronyms used

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

### 16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

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## 16.4 Method of classification in case of mixture

Not applicable.

## 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

## 16.6 Training advisement

Not available

## 16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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## 16.8 Department issuing MSDS

Quality Department

FAC SECUNDUM ARTEM NV

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