

**1. Identification of the substance/mixture and of the Company/undertaking****1.1 Product identifier**

AGAR AGAR

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

Gelling and stabilizer agent.

1.3 Details of the supplier of the safety data sheet

Industrias Roko, S.A.
Peña Brava, 25, Polígono de Silvota
33192 Llanera, Asturias - SPAIN
Telephone: +34 985261171
Fax: +34985269184
www.rokoagar.com
export@rokoagar.com

1.4 Emergency telephone number

+34 915 620 420 National Institute of
Toxicology (Spain)

2. Hazards Identification**2.1 Classification of the substance or mixture**

Not hazardous according to CLP
Classification-Regulation (EC) N° 1272/2008.

2.2 Label elements

Requires no special labels.

2.3 Other hazards

Product is not a PBT or vPvB according to
annex XIII of REACH

3. Composition/information on Ingredients**3.1 Substances**

Agar Agar
CAS N°: 9002-18-0
EINECS: 232-658-1
HS: 1302 31 00
INCI: Agar
REACH REGISTRATION NUMBER: Agar is
a natural polymer and as such exempt from
REACH registration (Annex V)
RTECS: AW7950000

3.2 Mixtures

Not applicable

4. First Aid Measures**4.1 Description of first aid measures**

Eye contact: Rinse immediately with plenty of
water for at least 15 minutes.
Inhalation: remove to fresh air.
Ingestion: if large amounts were swallowed,
give water to drink and get medical advice.
Do not induce vomit.
Skin contact: no irritating effect.

4.2 Most important symptoms and effects, both acute and delayed

Ingestion: ingestion of large amounts may
cause gastrointestinal irritation.
Expected to be a low ingestion hazard.
Inhalation: may cause irritation to respiratory
tract.
Eye contact: may cause mechanical irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No special medical attention is needed.
Treat symptomatically and supportively

5. Firefighting Measures**5.1 Extinguishing media**

Use water spray, carbon dioxide, dry
chemical powder or foam.

5.2 Special hazards arising from the substance or mixture

Emits toxic fumes under fire conditions. Keep
product away from heat and sources of
ignition and avoid dispersion of dust in air.
Dust dispersed in air is capable of creating a
dust explosion when exposed to an ignition
source.

5.3 Advice for firefighters

Use protective clothing and breathing
equipment appropriate for the surrounding
fire.

6. Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear appropriate personal protective
equipment: protective gloves, eyeglasses and
clothing.

6.2 Environmental precautions

Spills: Sweep up, place in a bag and hold for
waste disposal

6.3 Methods and material for containment and cleaning up

Vacuuming or wet sweeping may be used to
avoid dust dispersal.

6.4 Reference to other sections

See sections 8 and 13

7. Handling and Storage**7.1 Precautions for safe handling**

Protect against physical damage. Avoid direct
light.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a tightly closed container, stored in a
cool, dry and well ventilated area, away from
strong oxidizers.

7.3 Specific end use/s

Used as gelling and stabilizer agent in
microbiology, food, dental, tissue culture,
technical and cosmetic applications.

8. Exposure Controls/Personal Protection**8.1 Control parameters**

Not available

8.2 Exposure controls

Facilities storing or utilizing this product
should be equipped with an eyewash facility
and a safety shower. See also section 7.
Personal respirators are recommended if dust
is generated.
Body protection: protective gloves and work
clothing (lab. coat)
Eye Protection: safety glasses.

9. Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Physical state: solid (strips, flakes or powder).
Colour: translucent or white to pale.
Odour: odourless.
Odour threshold: not available.
Melting point: decomposition. See 10.6
section.
Freezing point: not applicable.
Boiling point or initial boiling point and boiling
range: not applicable.
Flammability: not available.
Lower and upper explosion limit: not
applicable.
Flash point: not applicable.
Auto-ignition temperature: not applicable.
Minimum ignition temperature: 380 °C

Decomposition temperature: not available.

pH: 5,0 – 7,5 (1,5% solution)

Kinematic viscosity: not applicable.

Solubility: soluble in hot water.

Partition coefficient n-octanol/water: not
available.

Vapour pressure: not applicable.

Density: bulk density approx. 550 kg/m³ (in
powder form).

Relative vapour density: not applicable.

Particle characteristic: not available.

9.2 Other information

Insoluble in cold water.

Molecular weight: not applicable.

Chemical formula: not applicable.

Complex polysaccharide

10. Stability and Reactivity**10.1 Reactivity**

Without reactivity.

10.2 Chemical stability

Stable under ordinary conditions of use and
storage.

10.3 Possibility of hazardous reactions

Hazardous polymerisation: do not occur.

10.4 Conditions to avoid

Moisture and incompatibles: see section 7.2

10.5 Incompatible materials

Strong oxidisers: see section 7.2

10.6 Hazardous decomposition products

Decomposition by heat: may form carbon
dioxide and carbon monoxide.

11. Toxicological Information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**LD₅₀ (oral, rata): 11000 mg/kg

When used according to specifications, the
product does not have any harmful effects.

11.2 Information on other hazards

Not contain components with endocrine
disrupting properties with effects on human
health.

12. Ecological Information**12.1 Toxicity**

Agar is not classed as dangerous to
environment.

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

No applicable.

12.6 Endocrine disrupting properties

Not contain components with endocrine
disrupting properties with effects on the
environment.

12.7 Other adverse effects

Not available

13. Disposal Considerations**13.1 Waste treatment methods**

Contact a licensed professional waste
disposal service to dispose of this material.
Dissolve or mix with a combustible solvent

and burn in a chemical incinerator equipped
with a scrubber.

Observe all the environmental regulations.
Handle contaminated packaging in the same
way as the substance itself.

14. Transport Information**14.1 UN number or ID number**

None.

14.2 UN proper shipping name

None.

14.3 Transport hazards class(es)

None.

14.4 Packing group

None.

14.5 Environmental hazards

ADR/RID class: non-hazardous for road
transport.
IMDG class: non-hazardous for sea transport.
IATA class: non-hazardous for air transport.

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

15. Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Not applicable

15.2 Chemical safety assessment

Not applicable

16. Other Information

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The above information is believed to be correct but
does not purport to be all inclusive and shall be used
only as a guide to the appropriate precautionary
handling of the material by a properly trained person.
Industrias Roko, S.A., provides the information
contained herein in good faith but makes no
representation as to its comprehensiveness or
accuracy.
Industrias Roko, S.A., shall not be held liable for any
damage resulting from handling or from contact with
the product.

Glossary:

CAS: Chemical Abstracts Service
EINECS: European Inventory of Existing Commercial
Chemical Substances
HS: Harmonized Commodity Description and Coding
System
REACH: Registration, Evaluation, Authorisation and
Restriction of Chemicals
RETECS: Registry of Toxic Effects of Chemical
Substances
LD50 median Lethal Dose
PBT: Persistent, Bioaccumulative, Toxic chemical
vPvB: very Persistent, very Bioaccumulative
ADR: European Agreement concerning the
international carriage of Dangerous goods by Road
IATA: Air Transport Association
RID: International Regulations Concerning the
Carriage of Dangerous Goods by Rail
IMDG: International Maritime, Dangerous Goods
Code
Marpol 73/78: International Convention for the
Prevention of Pollution From Ships
IBC: Intermediate Bulk Container