



Material Safety Data Sheet

according to guide line (EG) No. 2020/878 (amended by guide line (EG) No. 1907/2006)

R2A-Agar

Version 4

Replaced Version 3

Revision Date: 2025-12-18

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

1.1. Product identifier

Product name: R2A-Agar

Item number: 4125, 5095

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

Nutrient media for the microbiological quality control of water, beverages and food stuffs.

Not for medical and IVD applications.

1.3. Details of the supplier of the Material Safety Data Sheet

Company: Dr. Möller & Schmelz GmbH

Robert-Bosch-Breite 15

37079 Göttingen

Germany

Tel.: +49 (0)551 66708

Contact person:

Mr. Michael Sawatzki

info@moeller-schmelz.de

1.4. Emergency phone number

Poison control center, Germany: Tel.: +49 (0)551 19240

Local poison control center: see at <http://apps.who.int/poisoncentres/>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This mixture is not classified as dangerous according to European Union legislation

2.2. Label elements

No hazard pictogram, no signal word, no hazard statements required

2.3. Other hazards

Product/mixture does not contain toxic (PBT) or bioaccumulative substances (vPvB) with a content of 0.1 percent by weight or more

SECTION 3: Composition / information of ingredients

3.1. Substances

Main component: Caseinpeptone

3.2. Mixture

Chemical characterization: Jelly-like ready-to-use medium



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Dangerous components:	No dangerous components according to guide line (EU) No. 1907/2006 in ready-to-use medium
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SECTION 4: First-aid measures

4.1. Description of the first-aid measures

General advice:	No special measures necessary
After inhalation:	Fresh air
After skin contact:	Wash off with plenty of water
After eye contact:	Rinse out with plenty of water
After swallowing:	Wash out mouth and drink water, consult doctor if feeling Unwell

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

None known

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

Symptomatic treatment

SECTION 5: Firefighting measures

5.1. Extinguishing media

Water, foam, dry powder, carbon dioxide (CO₂)

5.2. Special hazards arising from the substance or mixture

Product is not flammable

5.3. Advice for firefighters

Do not inhale fire gases. Firefighting with common precaution from appropriate distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate hazard zone. Contact expert. Wear personal protection equipment. See section 8

6.2. Environmental precautions

No special measures required

6.3. Methods and materials for containment and cleaning up

Cleansing via paper towel absorption

6.4. Reference to other sections

Disposal: see section 13



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Bring product to room temperature before use. Avoid eye contact. Do not eat, drink or smoke in working section. Wash hands after finishing work or before break. Provide eye wash (bottle) on working place.

7.2. Conditions for safe storage, including any incompatibilities

Store dark and dry at + 4 °C to + 12 °C

7.3. Specific end uses

Liquefy bottle content in a water bath at 95 °C. After cooling down to approx. 50 °C, pour the liquid agar into sterile Petri dishes.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Contains no substances with workplace exposure limits

8.2. Exposure controls

General measures:	Follow the usual procedures for handling chemicals.
Hygiene measures:	Wash hands after working with the mixture
Respiratory protection:	Not necessary
Hand protection:	Not necessary
Eye protection:	Safety glasses

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	Solid
Color:	Opaque
Odor:	Peptone-like
pH:	7.2 ± 0.2
Melting point:	90 °C
Boiling point:	100 °C
Flash point:	No information available
Evaporation rate:	No information available
Flammability:	No information available
Explosion limit:	No information available
Vapor pressure:	No information available



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Vapor density:	No information available
Relative density:	No information available
Water solubility:	Soluble in cooking water
Partition coefficient n-octanol / water	No information available
Autoignition temperature:	No information available
Decomposition temperature:	No information available
Viscosity:	No information available
Explosive properties:	No information available
Oxidizing properties:	No information available

9.2. Other data

No further information known

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available

10.2. Chemical stability

Chemical stable under stated storage conditions

10.3. Possibility of hazardous reactions

No information available

10.4. Conditions to avoid

No information available

10.5. Incompatible materials

No information available

10.6. Hazardous decompositions products

No hazardous decomposition products under stated usage

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not known

Skin corrosion: Not corrosive; No irritation known

Serious Eye damage/eye irritation: Not known



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Sensitisation of respiratory system/skin: Not known

Germ cell mutagenicity: Not known

Carcinogenicity: Not known

Reproductive toxicity: Not known

Specific target organ toxicity - single exposure: Not known

Specific target organ toxicity - repeated exposure: Not known

Aspiration hazard: Not known

SECTION 12: Ecological information

12.1. Toxicity

No information available

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Result of PBT and vPvB assessment

No information available

12.6 Endocrine hazards

Product does not contain substances of 0.1 percent by weight or more of an agent with endocrine hazards

12.7. Other adverse effect

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product: Used products shall be sterilized and are then to be treated according to the regulations of the local authorities.

Package: Empty packages can be delivered to the municipal waste treatment.

Follow waste guideline 2008/98/EG and national regulation for disposal



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SECTION 14: Transport classification

14.1. UN-Number

ADR/RID: - IMDG: - IATA: -

14.2. Proper UN-shipping description

ADR/RID: No dangerous goods

IMDG: No dangerous goods

IATA: No dangerous goods

14.3. Transport hazard classes

ADR/RID: - IMDG: - IATA: -

14.4. Packaging group

ADR/RID: - IMDG: - IATA: -

14.5. Environmental hazards

ADR/RID: nein IMDG Meeresschadstoff: nein IATA: nein

14.6. Special precautions for user

No special precautions

14.7. Bulk cargo transport on see route according IMO-instruments

No bulk cargo transport with product

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EG) No. 1907/2006

WGK Classification Water endangering class = non-hazardous to waters

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

National and local guidelines are to be followed.

Abbreviations:

ADR – Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the international carriage of dangerous goods by road)

EG-No. – 7-digit EC-Number as classification code for material in the EU (European Union)

IATA – International Air Transport Association



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IMDG – International Maritime Dangerous Goods Code

PBT – Persistent, Bioaccumulative and Toxic

RID – Regulations concerning the International carriage of dangerous goods by rail

vPvB – very persistent and very bioaccumulative

IVD – In Vitro Diagnostics

IMO – International Maritime Organization

The information provided in the material safety data sheet is based on our present state of our best knowledge and is to characterize our product regarding appropriate precautions. We shall not be held liable for the sufficiency, correctness, absence of errors and appropriateness of this information and its use. The assessment for suitability of the product for a certain application is solely in the responsibility of the end-user. We do not accept liability for any damage resulting from handling or from contact with the above product.

The above information is subject to modifications and amendments, i.e. caused by changes of legal regulations.