### Safety Data Sheet

according to Regulation (EU) 2015/830 Issue date: 01/06/2022 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance
Substance name : Agarose
EC-No. : 232-731-8
CAS-No. : 9012-36-6

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Laboratory chemicals

#### 1.2.2. Uses advised against

No additional information available

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

ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de

#### 1.4. Emergency telephone number

| Country | Official advisory body   | Address                           | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité<br>CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30<br>12203 Berlin | +49 30 19240     |         |

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

## Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

### 2.3. Other hazards

No additional information available

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

### 3.1. Substances

| Name    | Product identifier                        | Conc.<br>(% w/w) |
|---------|---|------------------|
| Agarose | (CAS-No.) 9012-36-6<br>(EC-No.) 232-731-8 | ≤ 100            |

#### 3.2. Mixtures

Not applicable

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. People with over sensibility problems are not allowed to work or be exposed to the product. In all cases of doubt, or when symptoms

persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

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First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Strong water jet.

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

Fire hazard : Keep away from ignition sources (including static discharges). Contact with combustible

material may cause fire.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

Reactivity in case of fire : At high temperature may liberate dangerous gases.

Hazardous decomposition products in case of

fire

: Toxic fumes may be released.

#### 5.3. Advice for firefighters

Precautionary measures fire : Approach from upwind. Use water spray or fog for cooling exposed containers. Keep away from

combustible materials.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Cool adjacent tanks / containers /

drums with water jet. Do not allow water to enter the vessels, a violent reaction may occur. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Keep upwind. In case of fire: Evacuate area.

Fight fire remotely due to the risk of explosion.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

Other information : High temperature decomposition products are harmful by inhalation. Inhalation of vapour can

cause breathing difficulties.

### **SECTION 6: Accidental release measures**

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

General measures : Eliminate every possible source of

: Eliminate every possible source of ignition. Access forbidden to unauthorised personnel. Use protective clothing. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Notify authorities if product enters sewers or public waters.

Use care in walking on spilled material. Do not inhale vapour.

### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Dust formation: dust mask. Wear suitable

protective clothing, gloves and eye or face protection.

Emergency procedures : Ventilate spillage area. Do not touch or walk on the spilled product. Evacuate unnecessary

personnel. Mark out the contaminated area with signs and prevent access to unauthorized

personnel.

Measures in case of dust release : In case of dust production: protective goggles. Dust mask.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection". Only qualified personnel equipped with suitable protective equipment may intervene. Wear suitable protective clothing, gloves and

eye/face protection.

Emergency procedures : Avoid contact with skin and eyes. Do not touch spilled material. Evacuate unnecessary personnel. Keep away from combustible material. Keep public away from danger area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be

dangerous. Ventilate area. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Do not discharge into drains or waterways without neutralizing.

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

For containment

: Comply with the safety intructions. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up

Mechanically recover the product. Clean up any spills as soon as possible, using an absorbent material to collect it. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acidor universal binding agents). Sweep or shovel spills into appropriate container for disposal. Minimise generation of dust.

Other information

Dispose of materials or solid residues at an authorized site. Dispose of contaminated materials in accordance with current regulations.

#### Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Additional hazards when processed

: Use adequate ventilation to keep vapour concentrations below applicable standard. Take all necessary technical measures to avoid or minimize the release of the product on the workplace.

Precautions for safe handling

Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation. Avoid prolonged and repeated contact with skin. Contaminated work clothing should not be allowed out of the workplace. Do not spray on an open flame or other ignition source. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Keep valves and fittings free from oil and grease. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Take precautionary measures against static discharge.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures

: Containers which are opened should be properly resealed and kept upright to prevent leakage. The floor of the depot should be impermeable and designed to form a water-tight basin. Ensure adequate ventilation, especially in confined areas. Comply with applicable regulations.

Storage conditions

Store in a well-ventilated place. Keep cool. Strong acids. Strong bases. Strong oxidizing agents. Peroxides. Explosives.

Incompatible products Incompatible materials

: Extremely high or low temperatures.

Heat and ignition sources

: Do not smoke. KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.

Information on mixed storage

: Keep away from food, drink and animal feeding stuffs.

Storage area

: Avoid: Extremely high or low temperatures. Heat and ignition sources.

#### 7.3. Specific end use(s)

No additional information available

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

### **Control parameters**

No additional information available

#### 8.2. **Exposure controls**

### Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Consider the use of a work permit system e.g. for maintenance activities. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. In the event that dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation exposure to these forms not to exceed the occupational exposure limit. Measure concentrations regularly, and at the time of any change occuring in conditions likely to have consequences on workers exposure.

#### Hand protection:

Protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

#### Eye protection:

Safety glasses. EN 166

### Skin and body protection:

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Wear suitable protective clothing. Where contact with eyes or skin is likely, wear suitable protection. In case of dust production: dustproof clothing. In case of dust production: head/neck protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P1. Where excessive vapour may result, wear approved mask

#### **Environmental exposure controls:**

Avoid release to the environment.

#### Consumer exposure controls:

Do not eat, drink or smoke during use. Always wash hands after handling the product. Avoid contact with skin and eyes. Avoid contact during pregnancy/while nursing.

#### Other information:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

No data available

No data available

: Not applicable

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

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

Physical state : Solid
Appearance : Powder.
Colour : White. Beige.
Odour threshold : No data availa

Odour threshold : No data available No data available Relative evaporation rate (butylacetate=1) No data available Melting point : No data available Freezing point : Not applicable **Boiling point** No data available Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : No data available Flammability (solid, gas) Non flammable. Vapour pressure No data available Relative vapour density at 20 °C : No data available : No data available Relative density Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : Not applicable : No data available Viscosity, dynamic

#### 9.2. Other information

Bulk density : No data available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Explosive properties

Oxidising properties

**Explosive limits** 

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Peroxides. Explosives.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Not relevant)

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

#### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Completely empty the packaging prior to decontamination. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Comply with applicable regulations for solid waste disposal.

Additional information : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

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## **SECTION 14:** Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR               | IMDG            | IATA                         | ADN            | RID            |
|-------------------|-----------------|------------------------------|----------------|----------------|
| 14.1. UN number   |                 |                              |                |                |
| Not applicable    | Not applicable  | Not applicable               | Not applicable | Not applicable |
| 14.2. UN proper s | shipping name   |                              | ,              |                |
| Not applicable    | Not applicable  | Not applicable               | Not applicable | Not applicable |
| Not applicable    | Not applicable  | Not applicable               | Not applicable | Not applicable |
| 14.3. Transport h | azard class(es) |                              |                |                |
| Not applicable    | Not applicable  | Not applicable               | Not applicable | Not applicable |
| Not applicable    | Not applicable  | Not applicable               | Not applicable | Not applicable |
| 14.4. Packing gro | oup             |                              |                |                |
| Not applicable    | Not applicable  | Not applicable               | Not applicable | Not applicable |
| 14.5. Environmen  | ntal hazards    |                              |                |                |
| Not applicable    | Not applicable  | Not applicable               | Not applicable | Not applicable |
|                   |                 | No supplementary information | on available   | •              |

### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

### - Inland waterway transport

Not applicable

### - Rail transport

Not applicable

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

Not applicable

### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Agarose is not on the REACH Candidate List Agarose is not on the REACH Annex XIV List

### 15.1.2. National regulations

### Germany

Regulatory reference : Not classified according to Regulation Governing Systems for Handling Substances Hazardous

to Waters (AwSV)

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

### Abbreviations and acronyms:

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| ADN       | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |  |  |  |
|-----------|---|--|--|--|
| ADR       | European Agreement concerning the International Carriage of Dangerous Goods by Road               |  |  |  |
| ATE       | Acute Toxicity Estimate   |  |  |  |
| BCF       | Bioconcentration factor   |  |  |  |
| DMEL      | Derived Minimal Effect level  |  |  |  |
| DNEL      | Derived-No Effect Level   |  |  |  |
| EC50      | Median effective concentration  |  |  |  |
| IARC      | International Agency for Research on Cancer   |  |  |  |
| IATA      | International Air Transport Association   |  |  |  |
| IMDG      | International Maritime Dangerous Goods  |  |  |  |
| LC50      | Median lethal concentration   |  |  |  |
| LD50      | Median lethal dose  |  |  |  |
| LOAEL     | Lowest Observed Adverse Effect Level  |  |  |  |
| NOAEC     | No-Observed Adverse Effect Concentration  |  |  |  |
| NOAEL     | No-Observed Adverse Effect Level  |  |  |  |
| NOEC      | No-Observed Effect Concentration  |  |  |  |
| OECD      | Organisation for Economic Co-operation and Development  |  |  |  |
| PBT       | Persistent Bioaccumulative Toxic  |  |  |  |
| PNEC      | Predicted No-Effect Concentration   |  |  |  |
| RID       | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |  |  |  |
| SDS       | Safety Data Sheet   |  |  |  |
| STP       | Sewage treatment plant  |  |  |  |
| TLM       | Median Tolerance Limit  |  |  |  |
| vPvB      | Very Persistent and Very Bioaccumulative  |  |  |  |
| CAS-No.   | Chemical Abstract Service number  |  |  |  |
| BLV       | Biological limit value  |  |  |  |
| BOD       | Biochemical oxygen demand (BOD)   |  |  |  |
| CAS       | Chemical Abstracts Service (division of the American Chemical Society)                            |  |  |  |
| EC-No.    | European Community number   |  |  |  |
| EN        | European Standard   |  |  |  |
| IOELV     | Indicative Occupational Exposure Limit Value  |  |  |  |
| N.O.S.    | Not Otherwise Specified   |  |  |  |
| OEL       | Occupational Exposure Limit   |  |  |  |
| Pow (log) | n-octanol/water partition coefficient   |  |  |  |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |  |  |  |
| ThOD      | Theoretical oxygen demand (ThOD)  |  |  |  |
| TRGS      | Technical Rules for Hazardous Substances  |  |  |  |
| VOC       | Volatile Organic Compounds  |  |  |  |
| WGK       | Water Hazard Class  |  |  |  |
| COD       | Chemical oxygen demand (COD)  |  |  |  |

Data sources

: Classification according to Regulation (EC) No. 1272/2008 [CLP]. ECHA (European Chemicals Agency). Supplier's safety documents.

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