

## SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

### MetaPhor™ Agarose

Version 6.0

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## SECTION 1. IDENTIFICATION

Product name : MetaPhor™ Agarose

Material number : 50181

### Manufacturer or supplier's details

Company : Lonza Ltd  
Muenchensteinerstrasse 38  
CH-4002 Basel  
Switzerland  
Business Telephone +41 61 316 81 11

Lonza Rockland Inc.  
191 Thomaston Street  
Rockland, ME 04841-2994  
USA  
Business Telephone: 1-207-594-3400

Lonza Walkersville Inc.  
8830 Biggs Ford Road  
Walkersville, MD 21793-0127  
USA  
Business Telephone 1-301-898-7025

E-mail address : prodinfo@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h )

### Recommended use of the chemical and restrictions on use

Recommended use : For research use only.

Restrictions on use : NOT FOR USE IN GMP MANUFACTURING, NOR HUMAN OR ANIMAL IN VIVO OR DIAGNOSTIC USE.

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Combustible dust : Category 1

### GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Precautionary statements : **Prevention:**  
Avoid dust formation.

### Other hazards

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

No hazardous ingredients

### SECTION 4. FIRST AID MEASURES

If inhaled : No special precautions required.

In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
If eye irritation persists, consult a specialist.

If swallowed : If swallowed, do not induce vomiting - seek medical advice.  
Immediately give large quantities of water to drink.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : No information available.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry powder  
Water spray  
Foam

Hazardous combustion products : Carbon oxides (COx)

Further information : Use water spray to cool unopened containers.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.

Environmental precautions : Prevent product from entering drains.

Methods and materials for containment and cleaning up : Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.  
Avoid dispersal of dust in the air (i.e., clearing dust surfaces)

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with compressed air).  
Non-sparking tools should be used.

### SECTION 7. HANDLING AND STORAGE

- |                                                 |                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion | : Avoid dust formation.<br>During processing, dust may form explosive mixture in air.                                                                                                                                                                                                                                                                                |
| Advice on safe handling                         | : Minimize dust generation and accumulation.<br>Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.<br>Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.<br>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. |
| Conditions for safe storage                     | : Keep container tightly closed.<br>To maintain product quality, do not store in heat or direct sunlight.<br>Keep in a dry, cool and well-ventilated place.                                                                                                                                                                                                          |
| Further information on storage stability        | : Store dry.                                                                                                                                                                                                                                                                                                                                                         |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering measures</b> | : It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.<br>Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).<br>Use only appropriately classified electrical equipment and powered industrial trucks. |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Personal protective equipment

- |                        |                                               |
|------------------------|-----------------------------------------------|
| Respiratory protection | : Respirator must be worn if exposed to dust. |
| Hand protection        |                                               |

- |                |                                                                                                                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks        | : Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). |
| Eye protection | : Safety glasses with side-shields                                                                                                                                                                        |

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|                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| Skin and body protection | : Wear suitable protective clothing and gloves.                          |
| Hygiene measures         | : Handle in accordance with good industrial hygiene and safety practice. |

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                         |                          |
|-----------------------------------------|--------------------------|
| Appearance                              | : powder                 |
| Colour                                  | : white                  |
| Odour                                   | : odourless              |
| Odour Threshold                         | : No data available      |
| pH                                      | : Not applicable         |
| Melting point/freezing point            | : No data available      |
| Initial boiling point and boiling range | : No data available      |
| Flash point                             | : No data available      |
|                                         | : Not applicable         |
| Evaporation rate                        | : No data available      |
| Flammability (solid, gas)               | : No data available      |
| Flammability (liquids)                  | : No data available      |
| Upper explosion limit                   | : Not applicable         |
| Lower explosion limit                   | : No data available      |
| Vapour pressure                         | : No data available      |
| Relative vapour density                 | : Not applicable         |
| Relative density                        | : No data available      |
| Density                                 | : 1.49 g/cm <sup>3</sup> |
| Water solubility                        | : No data available      |
| Partition coefficient: n-octanol/water  | : No data available      |
| Auto-ignition temperature               | : Not applicable         |
| Decomposition temperature               | : No data available      |
| Viscosity, dynamic                      | : No data available      |
| Viscosity, kinematic                    | : Not applicable         |
| Dust explosion class                    | : St1                    |

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### SECTION 10. STABILITY AND REACTIVITY

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Reactivity                         | : Stable under recommended storage conditions. |
| Chemical stability                 | : Stable under normal conditions.              |
| Possibility of hazardous reactions | : None known.                                  |
| Conditions to avoid                | : Avoid dust formation.                        |
| Incompatible materials             | : Strong acids and oxidizing agents            |
| Hazardous decomposition products   | : No decomposition if stored normally.         |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

|                           |                              |
|---------------------------|------------------------------|
| Acute oral toxicity       | : Remarks: No data available |
| Acute inhalation toxicity | : Remarks: No data available |
| Acute dermal toxicity     | : Remarks: No data available |

#### Skin corrosion/irritation

|         |                     |
|---------|---------------------|
| Remarks | : No data available |
|---------|---------------------|

#### Serious eye damage/eye irritation

|         |                     |
|---------|---------------------|
| Remarks | : No data available |
|---------|---------------------|

#### Respiratory or skin sensitisation

|         |                     |
|---------|---------------------|
| Remarks | : No data available |
|---------|---------------------|

#### Germ cell mutagenicity

|                       |                              |
|-----------------------|------------------------------|
| Genotoxicity in vitro | : Remarks: No data available |
|-----------------------|------------------------------|

#### Carcinogenicity

|         |                     |
|---------|---------------------|
| Remarks | : No data available |
|---------|---------------------|

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### Reproductive toxicity

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Effects on fertility : Remarks: No data available

### STOT - single exposure

Remarks : No data available

### STOT - repeated exposure

Remarks : No data available

### Further information

Remarks : No data is available on the product itself.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxicity to fish : Remarks: No data available

### Persistence and degradability

Biodegradability : Result: no data available

### Bioaccumulative potential

Bioaccumulation : Remarks: No data available

### Mobility in soil

Distribution among environmental compartments : Remarks: No data available

### Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : In accordance with local and national regulations. Contact waste disposal services.

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### SECTION 14. TRANSPORT INFORMATION

|                                                                                 |   |                     |
|---------------------------------------------------------------------------------|---|---------------------|
| <b>DOT</b>                                                                      | : | Not dangerous goods |
| <b>UN number</b>                                                                | : | Not applicable      |
| <b>Proper shipping name</b>                                                     | : | Not applicable      |
| <b>Transport hazard class</b>                                                   | : | Not applicable      |
| <b>Packing group</b>                                                            | : | Not applicable      |
| <b>TDG</b>                                                                      | : | Not dangerous goods |
| <b>UN number</b>                                                                | : | Not applicable      |
| <b>Proper shipping name</b>                                                     | : | Not applicable      |
| <b>Transport hazard class</b>                                                   | : | Not applicable      |
| <b>Packing group</b>                                                            | : | Not applicable      |
| <b>IATA</b>                                                                     | : | Not dangerous goods |
| <b>UN number</b>                                                                | : | Not applicable      |
| <b>Proper shipping name</b>                                                     | : | Not applicable      |
| <b>Transport hazard class</b>                                                   | : | Not applicable      |
| <b>Packing group</b>                                                            | : | Not applicable      |
| <b>IMDG</b>                                                                     | : | Not dangerous goods |
| <b>UN number</b>                                                                | : | Not applicable      |
| <b>Proper shipping name</b>                                                     | : | Not applicable      |
| <b>Transport hazard class(es)</b>                                               | : | Not applicable      |
| <b>Packing group</b>                                                            | : | Not applicable      |
| <b>ADR</b>                                                                      | : | Not dangerous goods |
| <b>UN number</b>                                                                | : | Not applicable      |
| <b>Proper shipping name</b>                                                     | : | Not applicable      |
| <b>Transport hazard class</b>                                                   | : | Not applicable      |
| <b>Packing group</b>                                                            | : | Not applicable      |
| <b>RID</b>                                                                      | : | Not dangerous goods |
| <b>UN number</b>                                                                | : | Not applicable      |
| <b>Proper shipping name</b>                                                     | : | Not applicable      |
| <b>Transport hazard class</b>                                                   | : | Not applicable      |
| <b>Packing group</b>                                                            | : | Not applicable      |
| <b>Special precautions for user</b>                                             | : | none                |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | : | Not applicable      |

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**SECTION 15. REGULATORY INFORMATION****TSCA SNUR/Export notifications**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**

See above: SECTION 2. Hazard Identification-GHS Classification

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

**Clean Water Act**

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations****Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

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| Components             | CAS-No.    |
|------------------------|------------|
| 2-Hydroxyethyl agarose | 39346-81-1 |
| Water                  | 7732-18-5  |

### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### Canadian lists

No substances are subject to a Significant New Activity Notification.

### NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

### The product components have the following inventory status:

TSCA : This product is solely for research and development purposes only and may not be used, processed or distributed for a commercial purpose. This material may only be handled by technically qualified individuals.

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Date format : yyyy/mm/dd

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