

# Safety Data Sheet

According to Hazardous Products Regulation (SOR/2015-17)

Revision date: 04.12.2023 Version: 6.4 Print date: 04.12.2023

# **SECTION 1: Identification**

#### **Product identifier**

Trade name/designation: Magnesium chloride, 1M solution BIOTECHNOLOGY GRADE

E525 Product No.: Synonyms: none 7786-30-3 CAS No.:

Other means of identification:

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

Recommended use: For Further Manufacturing Use Only Uses advised against: Not for Human or Animal Drug Use

# Details of the supplier of the safety data sheet

# **Supplier**

### **VWR** International

Street 2360 Argentia Road Postal code/City Mississauga, Ontario Canada L5N 5Z7

Telephone +1-800-932-5000 toll-free within US/Canada

Telefax +1-610-728-2103

### **Emergency phone number**

Telephone +1-613-996-6666 (Canutec, 24 hrs/day, 7 days/week, Canada)

### **Preparation Information**

VWR International - Product Information Compliance

SDS@avantorsciences.com

# **SECTION 2: Hazard identification**

# 2.1 Classification of the substance or mixture

# Classification according to Hazardous Products Regulation (SOR/2015-17)

This mixture is classified as not hazardous according to Hazardous Products Regulation (SOR/2015-17)





### 2.2 Label elements

### Labelling in accordance with (SOR/2015-17)

According to Hazardous Products Regulation (SOR/2015-17) the product does not have to be labelled.

### Hazard(s) not otherwise classified (HNOC)

none

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

not applicable

#### 3.2 Mixtures

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of Hazardous Products Regulation (SOR/2015-17)

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

### **General information**

When in doubt or if symptoms are observed, get medical advice. Change contaminated, saturated clothing. Wash contaminated clothing before reuse. Do not leave affected person unattended.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. Obtain medical attention if symptoms appear.

### In case of skin contact

Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. Obtain medical attention if symptoms appear.

### In case of ingestion

Rinse mouth thoroughly with water. Call a doctor if you feel unwell.

# Self-protection of the first aider

First aider: Pay attention to self-protection!

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

No known symptoms to date.

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

No special information on medical attention and special treatment available.





# **SECTION 5: Fire fighting measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

The product itself does not burn.

May intensify fire; oxidiser.

Co-ordinate fire-fighting measures to the fire surroundings.

### Extinguishing media which must not be used for safety reasons

Full water jet.

### 5.2 Specific hazards arising from the chemical

In case of fire may be liberated:

Hydrogen chloride (HCI)

### 5.3 Advice for firefighters

Do not breathe gas/fume/vapor/spray.

Oxidising properties

DO NOT fight fire when fire reaches explosives.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Wear a self-contained breathing apparatus and chemical protective clothing.

# **SECTION 6: Accidental release measures**

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

For non-emergency personnel: Remove victim out of the danger area. First Aid, decontamination, treatment of symptoms.

#### 6.2 Environmental precautions

No special environmental measures are necessary.

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

Take up mechanically, placing in appropriate containers for disposal. Dispose according to legislation.

### 6.4 Reference to other sections

Personal protection equipment (PPE): see section 8 Disposal information: see section 13

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advices on safe handling

No special measures are necessary.

Measures to prevent fire, aerosol and dust generation

No special measures are necessary.

Measures required to protect the environment

No special measures are necessary.

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.





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

Recommended storage temperature: Store between 15 °C and 30 °C. (Storage conditions determined by quality aspects.) Storage: Store in a dry place. Store in a closed container. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep away from heat. Packaging materials: Polyethylene Unsuitable materials and coatings of containers/equipment: No information available.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Engineering controls

### **Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

Eye/face protection

Eye glasses with side protection

Skin protection

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

### By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,12 mm

Breakthrough time > 480 min

By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,38 mm

Breakthrough time > 480 min

#### Respiratory protection

Usually no personal respirative protection necessary.

### Additional information

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Environmental exposure controls

no data available





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

# 9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Color: colorless

Odor: no data available

### Safety relevant basic data

pH: no data available
Melting point/freezing point: no data available
Initial boiling point and boiling range: no data available
Flash point: no data available
Flammability: not applicable

Lower and upper explosion limit

Lower explosion limit: no data available
Upper explosion limit: no data available
Vapor pressure: no data available
Relative vapour density: no data available

Density and/or relative density

Density: 1.073 g/cm³ (20 °C)

Solubility(ies)

Water solubility: no data available
Partition coefficient: n-octanol/water: no data available
Auto-ignition temperature: no data available
Decomposition temperature: not applicable

Viscosity

Kinematic viscosity: no data available

Dynamic viscosity: no data available

Particle characteristics: does not apply to liquids

# 9.2 Other information

no data available Evaporation rate: no data available Explosive properties: Oxidising properties: not applicable Bulk density: no data available Refraction index: no data available Dissociation constant: no data available no data available Surface tension: no data available Henry's Law Constant:

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

This material is non-reactive under normal conditions.





### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.3 Possibility of hazardous reactions

No further relevant information available.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials:

No further relevant information available.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products. Decomposition products in case of fire: see section 5.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

### **Acute effects**

Acute oral toxicity: no data available

Acute dermal toxicity: no data available

Acute inhalation toxicity: no data available

#### Irritant and corrosive effects:

Primary irritation to the skin: not applicable

Irritation to eyes: not applicable

Irritation to respiratory tract: not applicable

### Respiratory or skin sensitization

In case of skin contact: not sensitizing In case of inhalation: not sensitizing

### STOT-single exposure

not applicable

# STOT-repeated exposure

not applicable





### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

No indication of human carcinogenicity.

### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

#### Reproductive toxicity

No indications of human reproductive toxicity exist.

## **Aspiration hazard**

not applicable

### Other adverse effects

no data available

#### Additional information

no data available

# **SECTION 12: Ecological information**

### 12.1 Toxicity

### Fish toxicity:

no data available

#### Daphnia toxicity:

no data available

### Algae toxicity:

no data available

### Bacteria toxicity:

no data available

# 12.2 Persistence and degradability

no data available

# 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

### 12.4 Mobility in soil:

no data available

# 12.5 Results of PBT/vPvB assessment

not applicable

# 12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to the environment.





### 12.7 Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

### **Appropriate disposal / Product**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. Waste requires monitoring.

Waste code product: no data available

### Appropriate disposal / Package

Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

#### **Additional information**

none

No further relevant information available.

# **SECTION 14: Transport information**

### Land transport (TDG)

14.1	UN number or ID number:	No dangerous good in sense of this transport regulation.
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14.2 UN proper shipping name: not assigned

14.3 Transport hazard class(es): none

14.4 Packing group: not assigned

14.5 Environmental hazards: none14.6 Special precautions for user: none

# Sea transport (IMDG)

14.1 UN number or ID number: No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name: not assigned

14.3 Transport hazard class(es): none

14.4 Packing group: not assigned14.5 Environmental hazards: none

14.6 Special precautions for user: none

14.7 Maritime transport in bulk according to IMO not relevant

instruments





# Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number: No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name: not assigned

14.3 Transport hazard class(es): none

14.4 Packing group: not assigned

14.5 Special precautions for user: none

# SECTION 15: Regulatory information

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

Domestic Substance List:





# **SECTION 16: Other information**

#### Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygiensts

**DOT - Department of Transportation** 

IARC - International Agency for Research on Cancer

IATA-DGR - International Air Transport Association-Dangerous Goods Regulations

ICAO-TI - International Civil Aviation Organization-Technical Instructions

IMDG - International Maritime Code for Dangerous Goods

LTV - Long Term Value

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety & Health Administration

PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

STV - Short Term Value

SVHC - Substances of Very High Concern

TDG - Transport of Dangerous Goods

TLV - Threshold Limit Value

vPvB - very Persistent, very Bioaccumulative

#### Key literature references and sources for data

This Safety Data Sheet has been prepared based on information available for public as TOXNET information, European Chemicals Agency (ECHA) substance dossier, papers from international cancer research institutes (IARC Monographs), U.S. National Toxicology Program data, U.S. Agency for Toxic Substances and Disease Control (ATSDR), PubChem websites and SDS from our raw material manufacturers.

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04.12.2023	6.4	04.12.2023

### **Additional information**

Indication of changes Review and revision of Sections 4, 5, 6, 7 and 10.

If you need an explanation of the change, contact the supplier (SDS@avantorsciences.com).

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safty precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.

