

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

#### 1.1. Product identifier

Product form : Substance  
Substance name : Magnesium Citrate Tribasic Hydrate  
EC-No. : 222-093-9  
CAS-No. : 3344-18-1  
Formula :  $Mg_3(C_6H_5O_7)_2 \cdot xH_2O$

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Nutrient; Dietary Supplement; Pharmaceuticals

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

Jost Chemical Co.  
8150 Lackland Rd.  
63114 Saint Louis, Missouri  
T 314-428-4300 - F 314-428-4366  
[sds@jostchemical.com](mailto:sds@jostchemical.com) - [www.jostchemical.com](http://www.jostchemical.com)

##### Distributor

JOST CHEMICAL EUROPE SPRL  
rue du Bois Portal n° 30/1-3  
B - 5300 Andenne - BELGIQUE  
T +32 85-552655 - F +32 85-552654  
[info@jostchemical.com](mailto:info@jostchemical.com)

#### 1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
United States and Canada: 1-800-424-9300 / +1 703-527-3887  
Global: +1 703-741-5970

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 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

Substance type : Mono-constituent

| Name                               | Product identifier                        | %   |
|------------------------------------|-------------------------------------------|-----|
| Magnesium Citrate Tribasic Hydrate | (CAS-No.) 3344-18-1<br>(EC-No.) 222-093-9 | 100 |

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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

Symptoms/effects after inhalation : May cause respiratory irritation.  
Symptoms/effects after skin contact : Slight irritation.

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according to Regulation (EC) No. 453/2010

Symptoms/effects after eye contact : Slight irritation.

### 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 powder. Foam.

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

Fire hazard : Not flammable.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : Do not dispose of fire-fighting water in the environment. Cool down the containers exposed to heat with a water spray.

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

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Protective clothing. See "Material-Handling" to select protective clothing.

Emergency procedures : Ventilate spillage area.

#### 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".

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

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

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

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Store in a clean, dry warehouse in the original unopened containers. Store in a well-ventilated place. Keep cool.

Incompatible materials : Strong oxidisers.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Dust production: dust mask with filter type P1. Gloves. Safety glasses.

#### Hand protection:

protective gloves

#### Eye protection:

Safety glasses

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### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Dust production: dust mask with filter type P1

### Personal protective equipment symbol(s):



### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                                            |                                                |
|--------------------------------------------|------------------------------------------------|
| Physical state                             | : Solid                                        |
| Appearance                                 | : White/Off White Fine Granular. White powder. |
| Molecular mass                             | : 451.13 g/mol (anhydrous)                     |
| Colour                                     | : white.                                       |
| Odour                                      | : Odorless.                                    |
| Odour threshold                            | : No data available                            |
| pH                                         | : 3.5 - 4.5                                    |
| pH solution                                | : 50 g/l (20 °C; aqueous solution)             |
| Relative evaporation rate (butylacetate=1) | : No data available                            |
| Melting point                              | : 184 °C                                       |
| 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                            |
| Relative density                           | : Not applicable                               |
| Solubility                                 | : Poorly soluble in water.                     |
| Log Pow                                    | : No data available                            |
| Viscosity, kinematic                       | : No data available                            |
| Viscosity, dynamic                         | : No data available                            |
| Explosive properties                       | : No data available                            |
| Oxidising properties                       | : No data available                            |
| Explosive limits                           | : Not applicable                               |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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).

### 10.5. Incompatible materials

Strong oxidisers.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide. Magnesium oxide fumes.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                                   |                                                                                                      |
|-----------------------------------|------------------------------------------------------------------------------------------------------|
| Acute toxicity (oral)             | : Not classified (Lack of data)                                                                      |
| Acute toxicity (dermal)           | : Not classified (Lack of data)                                                                      |
| Acute toxicity (inhalation)       | : Not classified (Lack of data)                                                                      |
| Causes serious eye damage.        | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 3.5 - 4.5 |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 3.5 - 4.5 |
| Respiratory or skin sensitisation | : Not classified (Lack of data)                                                                      |
| Germ cell mutagenicity            | : Not classified (Lack of data)                                                                      |
| Carcinogenicity                   | : Not classified (Lack of data)                                                                      |
| Reproductive toxicity             | : Not classified (Lack of data)                                                                      |
| STOT-single exposure              | : Not classified (Lack of data)                                                                      |
| STOT-repeated exposure            | : Not classified (Lack of data)                                                                      |
| Aspiration hazard                 | : Not classified (Lack of data)                                                                      |

### 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. |
| Dangerous for the environment | : Not classified                                                                                                        |
| Chronic aquatic toxicity      | : 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

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.                     |

### SECTION 14: Transport information

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

#### 14.1. UN number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

#### 14.2. UN proper shipping name

|                             |                               |
|-----------------------------|-------------------------------|
| Proper Shipping Name (ADR)  | : Not applicable              |
| Proper Shipping Name (IMDG) | : Not regulated for transport |
| Proper Shipping Name (IATA) | : Not regulated for transport |
| Proper Shipping Name (ADN)  | : Not applicable              |
| Proper Shipping Name (RID)  | : Not applicable              |

#### 14.3. Transport hazard class(es)

##### ADR

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not applicable |
|----------------------------------|------------------|

##### IMDG

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IMDG) | : Not applicable |
|-----------------------------------|------------------|

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### IATA

Transport hazard class(es) (IATA) : Not applicable

### ADN

Transport hazard class(es) (ADN) : Not applicable

### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

#### Rail transport

No data available

### 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

Magnesium Citrate Tribasic Hydrate is not on the REACH Candidate List

Magnesium Citrate Tribasic Hydrate is not on the REACH Annex XIV List

Directive 2012/18/EU (SEVESO III)

#### 15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Indication of changes:

This sheet has been revised completely (changes were not marked).

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*