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

1.1. Product identifier
Product form: Substance
Substance name: Magnesium Gluconate
EC-No.: 222-848-2
CAS-No.: 3632-91-5
Formula: C_{12}H_{22}MgO_{14}$$\cdot$$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 - 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

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
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
PBT: not yet assessed
vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances
Substance type: Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Gluconate</td>
<td>(CAS-No.) 3632-91-5</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 222-848-2</td>
<td></td>
</tr>
</tbody>
</table>

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 skin contact: Irritation.
### Magnesium Gluconate

**Safety Data Sheet**

according to Regulation (EC) No. 453/2010

<table>
<thead>
<tr>
<th>Symptoms/effects after eye contact</th>
<th>Eye irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptoms/effects after ingestion</td>
<td>Nausea, vomiting.</td>
</tr>
</tbody>
</table>

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

Treat symptomatically.

#### SECTION 5: Firefighting measures

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5.2. Special hazards arising from the substance or mixture</td>
<td>Combustible. at high temperature.</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>Dust cloud can be ignited by a spark.</td>
</tr>
<tr>
<td>Explosion hazard</td>
<td>Toxic fumes may be released.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.3. Advice for firefighters</th>
<th>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</th>
</tr>
</thead>
</table>

#### SECTION 6: Accidental release measures

<table>
<thead>
<tr>
<th>6.1. Personal precautions, protective equipment and emergency procedures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1.1. For non-emergency personnel</td>
<td>Ventilate spillage area.</td>
</tr>
<tr>
<td>6.1.2. For emergency responders</td>
<td>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.</td>
</tr>
</tbody>
</table>

| 6.2. Environmental precautions | Avoid release to the environment. |
| 6.3. Methods and material for containment and 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 | 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 | Store in a clean, dry warehouse in the original unopened containers. Store in a well-ventilated place. Keep cool. |

| 7.3. Specific end use(s) | No additional information available |

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

<table>
<thead>
<tr>
<th>8.1. Control parameters</th>
<th>No additional information available</th>
</tr>
</thead>
</table>

| 8.2. Exposure controls | Appropriate engineering controls: Ensure good ventilation of the work station. |

**Personal protective equipment:**


<table>
<thead>
<tr>
<th>Materials for protective clothing:</th>
<th>Wear suitable protective clothing, gloves and eye/face protection</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hand protection:</th>
<th>Impermeable protective gloves</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Eye protection:</th>
<th>Safety glasses</th>
</tr>
</thead>
</table>
Magnesium Gluconate
Safety Data Sheet
according to Regulation (EC) No. 453/2010

6/11/2018 (Version: 1.0) EN (English) 3/5

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Granules, Powder</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>414.6 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>White to off-white</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

9.2. Other information

Minimum ignition energy : ≈

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
No additional information available

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 (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 (Lack of data)
Serious eye damage/irritation : Not classified (Lack of data)
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
Magnesium Gluconate (3632-91-5)
PBT: not yet assessed
vPvB: not yet assessed

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 ADN / IATA / ADR / IMDG
14.1. UN number
UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable

14.2. UN proper shipping name
Proper Shipping Name (ADR) : Not regulated for transport
Proper Shipping Name (IMDG) : Not regulated for transport
Proper Shipping Name (IATA) : Not regulated for transport
Proper Shipping Name (ADN) : Not regulated for transport

14.3. Transport hazard class(es)
ADR Transport hazard class(es) (ADR) : Not applicable
IMDG Transport hazard class(es) (IMDG) : Not applicable
IATA Transport hazard class(es) (IATA) : Not applicable
Magnesium Gluconate
Safety Data Sheet
according to Regulation (EC) No. 453/2010

ADN
Transport hazard class(es) (ADN) : 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

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

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 Gluconate is not on the REACH Candidate List
Magnesium Gluconate is not on the REACH Annex XIV List
Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information
Indication of changes:
This sheet was updated (refer to the date at the top of this page).

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.