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

1.1. Product identifier
Product form: Substance
Substance name: Calcium Citrate Malate
EC-No.: 604-299-4
CAS-No.: 142606-53-9
Formula: Ca₆(C₆H₅O₇)₂(C₄H₄O₅)₃ * 6H₂O

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

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
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
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
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>Calcium Citrate Malate</td>
<td>(CAS-No.) 142606-53-9 (EC-No.) 604-299-4</td>
<td>100</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 inhalation | Irritation of the respiratory tract. |
| Symptoms/effects after skin contact | May cause moderate irritation. |
| Symptoms/effects after eye contact | Direct contact with the eyes is likely to be irritating. |

### 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

| 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

**General measures:** Wear personal protective equipment.

**6.1.1. For non-emergency personnel**


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 spillage. 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.

**Packaging materials:** Plastics.

#### 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 P2. Gloves. Safety glasses.
Calcium Citrate Malate
Safety Data Sheet
according to Regulation (EC) No. 453/2010

Materials for protective clothing:
Wear suitable protective clothing, gloves and eye/face protection

Hand protection:
Impermeable protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
Dust production: dust mask with filter type P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: White granule, White powder.
Molecular mass: 1123.1 g/mol
Colour: White.
Odour: Odorless.
Odour threshold: No data available
pH: 3% 4 - 8
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 ºC: No data available
Relative density: Not applicable
Solubility: No data available
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
Carbon dioxide. Carbon monoxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>Causes serious eye damage.</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>pH: 3% - 8</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>pH: 3% - 8</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified (Lack of data)</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified (Lack of data)</td>
</tr>
</tbody>
</table>

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

### 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>PBT</th>
<th>vPvB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Citrate Malate (142606-53-9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBT: not yet assessed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>vPvB: not yet assessed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 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.

### SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

<table>
<thead>
<tr>
<th>Category</th>
<th>UN-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR (ADR)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>IMDG (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>IATA (IATA)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ADN (UN-No.) (ADR)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>(UN-No. (RID)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
Calcium Citrate Malate
Safety Data Sheet
according to Regulation (EC) No. 453/2010

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
Proper Shipping Name (RID) : 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
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
Calcium Citrate Malate is not on the REACH Candidate List
Calcium Citrate Malate is not on the REACH Annex XIV List
Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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