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

1.1. Product identifier

Product form: Substance
Substance name: Magnesium Aspartate Monobasic Dihydrate
EC no: 242-703-7
CAS No: 18962-61-3
Product code: 2518
Formula: Mg(C₄H₆NO₄)₂ · 2H₂O

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: Food Additives in Nutrients
Food industry: supplement

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier: 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@josteurope.com

Manufacturer: Jost Chemical Co.
8150 Lackland Rd.
63114 Saint Louis, Missouri
T 314-428-4300 - F 314-428-4366
justin.kuehnel@jostchemical.com - www.jostchemical.com

1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service</td>
<td>Dudley Road B18 7QH</td>
<td>0844 892 0111</td>
<td>UK only, Monday to Friday,</td>
</tr>
<tr>
<td></td>
<td>(Birmingham Centre)</td>
<td>Birmingham</td>
<td></td>
<td>08.00 to 18.00 hours</td>
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</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP): None
Hazard statements (CLP): None
Precautionary statements (CLP): None
Child-resistant fastening: No
Tactile warning: No

2.3. Other hazards

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. Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with. Not classified as flammable according to EC criteria, but may present a risk in the event of a fire. Divided solid. Dust explosion possible when mixed with air. According to EC criteria, this product is not classified as a hazardous substance.

Other hazards not contributing to the classification
PBT: not yet assessed
vPvB: not yet assessed

None to our knowledge.
SECTION 3: Composition/information on ingredients

3.1. Substance

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
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<tr>
<td>Magnesium Aspartate Monobasic Dihydrate</td>
<td>(CAS No) 18962-61-3</td>
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Full text of H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Move the affected person away from the contaminated area and into the fresh air.
First-aid measures after skin contact: Remove all contaminated clothing and footwear. Wash with soapy water. Wash skin with plenty of water.
First-aid measures after eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If irritation persists, consult an eye specialist.
First-aid measures after ingestion: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture

Explosion hazard: Potential dust explosion hazard.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow product to spread into the environment. Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

For containment: Gather the product and place it in a spare container that has been suitably labelled.
Methods for cleaning up: Recover mechanically the product. Wash contaminated area with large amounts of water. Dispose of contaminated materials in accordance with current regulations.
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. 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. Ensure good ventilation of the work station. Dust extraction (suction). Avoid contact with skin and eyes. Avoid the formation or spread of dust in the atmosphere.

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: Keep container tightly closed and dry. Store in a cool, well-ventilated place. Store in a well-ventilated place. Keep cool.

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. Extraction to remove dust at its source. Ensure good ventilation of the work station.


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

Hand protection: Protective gloves made of rubber

Eye protection: Safety glasses. Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: Dust production: dust mask with filter type P1

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: Powder.

Colour: White to off-white.

Odour: None.

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

Melting point: No data available

Freezing point: Not applicable

Boiling point: Not applicable

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: Water: Soluble

Log Pow: No data available

Viscosity, kinematic: Not applicable
Viscosity, dynamic: No data available
Explosive properties: Not explosive.
Oxidising properties: Non oxidizing material according to EC criteria.
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 at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials
None to our knowledge.

10.6. Hazardous decomposition products
On combustion or on thermal decomposition (pyrolysis) releases: Carbon oxides (CO, CO2), Nitrogen oxides, Magnesium oxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: 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)
Specific target organ toxicity (single exposure): Not classified (Lack of data)
Specific target organ toxicity (repeated exposure): Not classified (Lack of data)
Aspiration hazard: Not classified (Lack of data)

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: No information available, however this product is not considered to present any particular risk for the aquatic environment.

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

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</tbody>
</table>

12.6. Other adverse effects
No additional information available
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste 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

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<tr>
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</table>

14.6. Special precautions for user

- Overland transport
  No data available

- Transport by sea
  No data available

- Air transport
  No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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 Aspartate Monobasic Dihydrate is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Magnesium Aspartate Monobasic Dihydrate is not on the REACH Annex XIV List
Contains no REACH Annex XIV substances

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 NZIoC (New Zealand Inventory of Chemicals)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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.