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

1. Product identifier

Product form: Substance
Substance name: MAGNESIUM PHOSPHATE DIBASIC and TRIBASIC
Chemical name: Magnesium hydrogenorthophosphate
EC no: 231-823-5
CAS No: 7757-86-0 & 7757-87-1
Formula: MgHPO4, 3H2O & Mg3(PO4)2.5H2O
Synonyms: Magnesium phosphate dibasic and tribasic

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-stuff industry

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
Saint Louis
MO 63114
USA
T: +1 314-428-4300 / F: +1 314-428-4366

Distributor:
JOST CHEMICAL EUROPE SPRL
Rue du Bois Portal 30/3
B - 5300 Andenne
BELGIQUE
T: +32 85 552 655 / F: +32 85 552 654
info@josteurope.com

1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNITED KINGDOM</td>
<td>National Poisons Information Service</td>
<td>Dudley Road 818 7CH Birmingham</td>
<td>0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)</td>
</tr>
<tr>
<td></td>
<td>(Birmingham Centre)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>City Hospital</td>
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<td></td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
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. Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with. Not expected to be a fire/explosion hazard under normal conditions of use. According to EC criteria, this product is not classified as a hazardous substance.

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
### 2.3. Other hazards

Other hazards not contributing to the classification: None to our knowledge.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Directive 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAGNESIUM PHOSPHATE DIBASIC and TRIBASIC</td>
<td>(CAS No) 7757-86-0 &amp; 7757-87-1 (EC no) 231-823-5</td>
<td>100</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### 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. Rinse with plenty of water.
- First-aid measures after eye contact: Rinse immediately with plenty of water. If irritation persists, consult an eye specialist.
- First-aid measures after ingestion: Give water to drink. If necessary seek medical advice.

#### 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

Suitable extinguishing media: Water fog, Carbon dioxide (CO2), Foam, Powder.

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

- Fire hazard: Not combustible.

#### 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.

### SECTION 6: Accidental release measures

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

- **For non-emergency personnel**
  - Emergency procedures: Avoid contact with skin and eyes.

- **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

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**
  - Sweep up or vacuum up the product. Gather the product and place it in a spare container that has been suitably labelled.

- **Methods for cleaning up**
  - Wash contaminated area with large amounts of water. Dispose of contaminated materials in accordance with current regulations.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: 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.

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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

MAGNESIUM PHOSPHATE DIBASIC and TRIBASIC (7757-86-0 & 7757-87-1)

DNEL/DMEL (Workers)
Long-term - systemic effects, inhalation: 4.07 mg/m³

DNEL/DMEL (General population)
Long-term - systemic effects, inhalation: 3.04 mg/m³

PNEC (STP)
PNEC sewage treatment plant: 50 mg/l

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station. Extraction to remove dust at its source.

Hand protection: Nitrile-rubber protective gloves. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. Breakthrough time: refer to the recommendations of the supplier

Eye protection: Safety goggles

Respiratory protection: If dust are formed: Gas mask with filter type P1/FFP1

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid

Appearance: Crystalline powder.

Colour: White.

Odour: None.

Odour threshold: No data available

pH: Not applicable

Relative evaporation rate (butyl acetate=1): No data available

Melting point: 205 °C (after evaporation of the water)

Freezing point: No data available

Boiling point: 550 - 650 °C (Decomposes)

Flash point: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): No data available

Vapour pressure: No data available

Relative vapour density at 20 °C: No data available

Relative density: No data available

Solubility: Water: Insoluble

Log Pow: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: Not explosive.

Oxidising properties: Non oxidizing material according to EC criteria.
Explosive limits : No data available

9.2. Other information
Other properties : Bulk density : 213 kg/m³.

SECTION 10: Stability and reactivity

10.1. Reactivity
To our knowledge, the product does not present any particular risk.

10.2. Chemical stability
Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions
None to our knowledge.

10.4. Conditions to avoid
None to our knowledge.

10.5. Incompatible materials
None to our knowledge.

10.6. Hazardous decomposition products
On thermal decomposition (pyrolysis), releases: Phosphorus oxides, Magnesium oxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

<table>
<thead>
<tr>
<th>MAGNESIUM PHOSPHATE DIBASIC and TRIBASIC (7757-86-0 &amp; 7757-87-1)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg (OECD 420 method) (Published data)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
Equivalent or similar to OECD Guideline 404
(Published data)
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
(OECD 405 method)
(Published data)
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Lack of data)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
(OECD 471 method)
(OECD 473 method)
(OECD 476 method)
(Published 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)
Dust from this product may cause irritation to the respiratory tract

Specific target organ toxicity (repeated exposure) : Not classified (Lack of data)

Aspiration hazard : Not classified (Not applicable)

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
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 in accordance with relevant local regulations.
Waste disposal recommendations : Destroy at an authorised site.
Additional information : The user’s attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.

SECTION 14: Transport information

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

14.1. UN number
Not regulated for transport

14.2. UN proper shipping name
Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

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

14.4. Packing group
Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : Not applicable.

14.6. Special precautions for user
14.6.1. Overland transport
14.6.2. Transport by sea
14.6.3. Air transport
14.6.4. Inland waterway transport
14.6.5. Rail transport
14.6.7. 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 PHOSPHATE DIBASIC and TRIBASIC
Safety Data Sheet
according to Regulation (EC) No. 453/2010

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). SDS changed section(s) : 1.

Data sources
Joint Research Center (JRC). IUCLID (International Uniform Chemical Information Data Base).
ECHA - European Chemical Agency.

Other information
Safety data sheet established by : LISAM SERVICES - TELEGIS
17, Rue de la Couture F-60400 PASSEL
Safety Made Easy with www.lisam.com. This product must not be used for other applications that mentionned in §1.

SDS EU (REACH Annex II)
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.