

## Safety Data Sheet MAGNESIUM SILICATE

Revision date :  
Version : 3.0

Page: 1/6

NUMBER

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers

|               |                    |
|---------------|--------------------|
| Chemical Name | MAGNESIUM SILICATE |
| CAS NO.       | 1343-88-0          |

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

1. magnesium hydrosilicate was used as column packing material in column chromatography.
2. Magnesium silicate is used in oral pharmaceutical formulations and food products as a glidant and an anticaking agent.

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

##### COMPANY

POLYMER ADD (THAILAND) CO., LTD.  
106, Chalaremprakiat, Lor 9, Soi 22, Yak  
5, Nongbon, Prawet, Bangkok  
Bangkok - 10250  
Thailand  
Telephone : 0804531391  
Email - contact@polymeradd.co.th

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

|                               |   |
|-------------------------------|---|
| Physical and Chemical Hazards | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |
|-------------------------------|---|

#### 2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

|                |   |
|----------------|---|
| Label elements | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |
|----------------|---|

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

##### Component

|                   |                     |
|-------------------|---------------------|
| Chemical Name     | magnesium silicate  |
| CAS NO            | 1343-88-0           |
| EC Number         | 215-681-1           |
| Molecular Formula | MgO <sub>3</sub> Si |
| Molecular Weight  | 100.39              |

## Safety Data Sheet MAGNESIUM SILICATE

Revision date :  
Version : 3.0

Page: 2/6

NUMBER

### Concentration

#### 4 FIRST AID MEASURES

##### 4.1 Description of first aid measures

|                                |   |
|--------------------------------|---|
| <b>If inhaled</b>              | fresh air.  |
| <b>In case of skin contact</b> | Take off immediately all contaminated clothing.<br>Rinse skin with water/ shower.   |
| <b>In case of eye contact</b>  | rinse out with plenty of water. Remove contact lenses                               |
| <b>If swallowed</b>            | make victim drink water (two glasses at most).<br>Consult doctor if feeling unwell. |

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

#### 5 FIREFIGHTING MEASURES

##### 5.1 Extinguishing media

|                                     |   |
|-------------------------------------|---|
| <b>Suitable extinguishing media</b> | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|-------------------------------------|---|

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

Magnesium oxide silicon oxides Not combustible. Ambient fire may liberate hazardous vapours.

##### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus

##### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet.

#### 6 ACCIDENTAL RELEASE MEASURES

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

##### 6.2 Environmental precautions

No special precautionary measures necessary.

##### 6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**Safety Data Sheet**  
**MAGNESIUM SILICATE**

Revision date :  
Version : 3.0

Page: 3/6

NUMBER

**6.4 Reference to other sections**

For disposal see section 13.

**7 HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

For precautions see section 2.2.

**7.2 Information about protection against explosions and fires**

No data available

**7.3 Conditions for safe storage including any incompatibilities**

Tightly closed. Dry.

**7.4 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

**Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves

**Respiratory protection**

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Control of environmental exposure**

No special precautionary measures necessary.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

- |                    |                   |
|--------------------|-------------------|
| a) Appearance      | white powder      |
| b) Odour           | odorless          |
| c) Odour Threshold | No data available |

## Safety Data Sheet MAGNESIUM SILICATE

Revision date :  
Version : 3.0

Page: 4/6

NUMBER

|  |   |
|--|---|
| d)pH (% solution in water)                     | No data available                                 |
| e)Melting point/freezing point                 | 1500 °C - OECD Test Guideline 102                 |
| f)Initial boiling point and boiling range      | No data available                                 |
| g)Flash point                                  | Not applicable                                    |
| h)Evaporation rate                             | No data available                                 |
| i)Flammability (solid or gas)                  | The product is not flammable.                     |
| j)Upper/lower flammability or explosive limits | No data available                                 |
| k)Vapour pressure                              | No data available                                 |
| l)Vapour density                               | No data available                                 |
| m)Relative density                             | 2.06 - 2.10 at 26,6 °C                            |
| n)Water solubility                             | 0.127 g/l at 30 °C - soluble                      |
| o)Partition coefficient: n-octanol/water       | No data available                                 |
| p)Autoignition temperature                     | No data available                                 |
| q)Decomposition temperature                    | No data available                                 |
| r)Viscosity                                    | No data available                                 |
| s)Explosive properties                         | No data available                                 |
| t)Oxidizing properties                         | The product has been shown not to be oxidizing in |

### 9.2 Other safety information

## 10 STABILITY AND REACTIVITY

|   |                                     |
|---|-------------------------------------|
| 10.1 Reactivity                         | No data available                   |
| 10.2 Chemical stability                 |                                     |
| 10.3 Possibility of hazardous reactions | No data available                   |
| 10.4 Conditions to avoid                | No data available                   |
| 10.5 Incompatible materials             | Strong acids                        |
| 10.6 Hazardous decomposition products   | In the event of fire: see section 5 |

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

|                                  |   |
|----------------------------------|---|
| <b>Acute oral toxicity</b>       | LD50 Oral - Rat - male and female - > 5.000 mg/kg         |
| <b>Acute Inhalation toxicity</b> | LC50 Inhalation - Rat - male and female - 1 h - > 20 mg/l |

## Safety Data Sheet MAGNESIUM SILICATE

Revision date :  
Version : 3.0

Page: 5/6

NUMBER

|   |   |
|---|---|
| <b>Acute dermal toxicity</b>                              | LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg                                |
| <b>Skin corrosion/irritation</b>                          | Skin - Rabbit Result: No skin irritation - 24 h (Directive 67/548/EEC, Annex V, B.4.) |
| <b>Serious eye damage/eye irritation</b>                  | Eyes - Rabbit Result: No eye irritation - 72 h (OECD Test Guideline 405)              |
| <b>Respiratory or skin sensitization</b>                  | No data available   |
| <b>Germ cell mutagenicity</b>                             | No data available   |
| <b>Carcinogenicity</b>                                    | No data available   |
| <b>Reproductive toxicity</b>                              | No data available   |
| <b>Specific target organ toxicity - single exposure</b>   | No data available   |
| <b>Specific target organ toxicity - repeated exposure</b> | No data available   |
| <b>Aspiration hazard</b>                                  | No data available   |

### 12 ECOLOGICAL INFORMATION

|      |                                      |   |
|------|--------------------------------------|---|
| 12.1 | Toxicity                             | No data available   |
| 12.2 | <b>Persistence and degradability</b> |   |
|      | <b>Biodegradation</b>                | No data available   |
| 12.3 | Bio accumulative potential           | No data available   |
| 12.4 | Mobility in soil                     | No data available   |
| 12.5 | Results of PBT and vPvB assessment   | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher |
| 12.6 | Other adverse effects                | No data available   |

### 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

##### Product

processes regarding the return of chemicals and containers, or contact us there if you have further questions.

### 14 TRANSPORT INFORMATION

**Safety Data Sheet**  
**MAGNESIUM SILICATE**

Revision date :  
Version : 3.0

Page: 6/6

NUMBER

14.1 **UN number**

| ADR/RID | IMDG | IATA |
|---------|------|------|
| -       | -    | -    |

14.2 **UN proper shipping name**

| ADR/RID             | IMDG                | IATA                |
|---------------------|---------------------|---------------------|
| Not dangerous goods | Not dangerous goods | Not dangerous goods |

14.3 **Transport hazard class(es)**

| ADR/RID | IMDG | IATA |
|---------|------|------|
| -       | -    | -    |

14.4 **Packaging group**

| ADR/RID | IMDG | IATA |
|---------|------|------|
| -       | -    | -    |

14.5 **Environmental hazards**

| ADR/RID | IMDG Marine pollutant | IATA |
|---------|-----------------------|------|
| no      | no                    | no   |

14.6 Special precautions for user No data available

15 **REGULATORY INFORMATION**

15.1 **Safety health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 **Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

16 **OTHER INFORMATION**

Month of Creation March 2023

Month of Revision March 2027