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CHEMICALS, INC.

Revision: 20.07.2021

| <u>SECTION</u>                                   | 1: Identification of the substance/mixture and of the company/undertaking                                     |
|--|---|
| 1.1 Product                                      | dentifier   |
| Trade name.                                      | <u>Magnesium oxide, -325 mesh (99.5%-Mg)</u>  |
| Item number<br>CAS Numbe<br>1309-48-4            |   |
| <b>EC number:</b><br>215-171-9                   |   |
| Index numb                                       | 2 <b>r:</b>   |
| 025-199-09-                                      |   |
|  | <i>identified uses of the substance or mixture and uses advised against</i><br>elevant information available. |
| <b>Manufactur</b><br>Strem Chemi<br>7 Mulliken W | icals, Inc.<br>Vay<br>ORT, MA 01950   |
| v  | rmation obtainable from: Technical Department   |
|  | cy telephone number:  |
|  | <i>Y: CHEMTREC:</i> + 1 (800) 424-9300  |
| During norm                                      | al opening times: +1 (978) 499-1600   |
| SECTION  | 2: Hazards identification   |
|  | ation of the substance or mixture   |
|  | n according to Regulation (EC) No 1272/2008   |
|  |   |
| Gi   | 4807  |
| Acute Tox. 4                                     | H332 Harmful if inhaled.  |
| Skin Irrit. 2                                    | H315 Causes skin irritation.  |
| Eye Irrit. 2                                     | H319 Causes serious eye irritation.   |
|  | H335 May cause respiratory irritation.  |

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Hazard pictograms



· Signal word Warning

• Hazard-determining components of labelling: magnesium oxide

• Hazard statements H332 Harmful if inhaled. H315 Causes skin irritation.

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## INC.

#### Safety data sheet according to 1907/2006/EC, Article 31

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|                      | (Contd. of page 1)   |
|----------------------|--|
| H319 Causes serie    | bus eye irritation.  |
| H335 May cause r     | espiratory irritation.   |
| · Precautionary stat | tements  |
| P101                 | If medical advice is needed, have product container or label at hand.                    |
| P102                 | Keep out of reach of children.   |
| P103                 | Read label before use.   |
| P262                 | Do not get in eyes, on skin, or on clothing.   |
| P280                 | Wear protective gloves/protective clothing/eye protection/face protection.               |
| P305+P351+P338       | 8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if |
|                      | present and easy to do. Continue rinsing.  |
| P304+P340            | IF INHALED: Remove person to fresh air and keep comfortable for breathing.               |
| P403+P233            | Store in a well-ventilated place. Keep container tightly closed.                         |
| P501                 | Dispose of contents/container in accordance with local/regional/national/international   |
|                      | regulations.   |
| · 2.3 Other hazards  | -  |

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

#### SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- CAS No. Description 1309-48-4 magnesium oxide
- · Identification number(s)
- *EC number:* 215-171-9
- Index number: 025-199-09-0

#### **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- · 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. · Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

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

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

- WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>
- (as Mg) \*inhalable dust \*\*fume and respirable dust
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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<sup>1309-48-4</sup> magnesium oxide

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  *Material of gloves* 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

| General Information                  |   |  |
|--------------------------------------|---|--|
| Appearance:<br>Form:                 | Powder  |  |
| Form:<br>Colour:                     | White   |  |
| Odour:                               | <i>Odourless</i>                              |  |
| Odour threshold:                     | Not determined.                               |  |
| pH-value:                            | Not applicable.                               |  |
| Change in condition                  |   |  |
| Melting point/freezing point:        | 2.800 °C                                      |  |
| Initial boiling point and boiling ra | nge: 3.600 °C                                 |  |
| Flash point:                         | Not applicable.                               |  |
| Flammability (solid, gas):           | Not determined.                               |  |
| Ignition temperature:                |   |  |
| Decomposition temperature:           | Not determined.                               |  |
| Auto-ignition temperature:           | Not determined.                               |  |
| Explosive properties:                | Product does not present an explosion hazard. |  |
| Explosion limits:                    |   |  |
| Lower:                               | Not determined.                               |  |
| Upper:                               | Not determined.                               |  |
| Vapour pressure:                     | Not applicable.                               |  |
| Density at 20 °C:                    | 3.58 g/cm <sup>3</sup>                        |  |
| Relative density                     | Not determined.                               |  |
| Vapour density                       | Not applicable.                               |  |
| Evaporation rate                     | Not applicable.                               |  |
| Solubility in / Miscibility with     |   |  |
| water:                               | Insoluble.                                    |  |

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|   |  | (Contd. of page 4 |
|---|--|-------------------|
| · Partition coefficient: n-octanol/water: | Not determined.                            |                   |
| · Viscosity:                              |  |                   |
| Dynamic:                                  | Not applicable.                            |                   |
| Kinematic:                                | Not applicable.                            |                   |
| · Solvent content:                        |  |                   |
| Organic solvents:                         | 0.0 %                                      |                   |
| VOC(EC)                                   | 0.00 %                                     |                   |
| Solids content:                           | 100.0 %                                    |                   |
| · 9.2 Other information                   | No further relevant information available. |                   |

#### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if inhaled.
- Primary irritant effect:
- Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

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· Additional ecological information:

- General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- $\cdot$  12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

#### SECTION 14: Transport information

| · 14.1 UN-Number<br>· ADR, ADN, IMDG, IATA   | not regulated   |  |
|--|-----------------|--|
| · 14.2 UN proper shipping name<br>· ADR, ADN, IMDG, IATA                                     | not regulated   |  |
| · 14.3 Transport hazard class(es)  |                 |  |
| · ADR, ADN, IMDG, IATA<br>· Class  | not regulated   |  |
| · 14.4 Packing group<br>· ADR, IMDG, IATA  | not regulated   |  |
| · 14.5 Environmental hazards:<br>· Marine pollutant:   | No              |  |
| · 14.6 Special precautions for user  | Not applicable. |  |
| • 14.7 Transport in bulk according to Annex II of<br>Marpol and the IBC Code Not applicable. |                 |  |
| · UN "Model Regulation":   | not regulated   |  |

#### **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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|--|---|
| Department issuing SDS: Technical Department.  |   |
| Contact: Technical Director  |   |
| Abbreviations and acronyms:  |   |
| ADR: Accord européen sur le transport des marchandises dangereuses j<br>Carriage of Dangerous Goods by Road) | par Route (European Agreement concerning the Internationa |
| IMDG: International Maritime Code for Dangerous Goods  |   |
| IATA: International Air Transport Association  |   |
| GHS: Globally Harmonised System of Classification and Labelling of Chemic                                    | cals  |
| EINECS: European Inventory of Existing Commercial Chemical Substances  |   |
| CAS: Chemical Abstracts Service (division of the American Chemical Society                                   |   |
| VOC: Volatile Organic Compounds (USA, EU)  |   |
| PBT: Persistent, Bioaccumulative and Toxic   |   |
| vPvB: very Persistent and very Bioaccumulative   |   |
| Acute Tox. 4: Acute toxicity – Category 4  |   |
| Skin Irrit. 2: Skin corrosion/irritation – Category 2  |   |
| Eye Irrit. 2: Serious eye damage/eye irritation – Category 2   |   |
| STOT SE 3: Specific target organ toxicity (single exposure) – Category 3                                     |   |

