



# MAGNESIUM OXIDE SAMPLE ADDITIVE, OEA

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Issue date: 10/06/2020 Revision date: 16/02/2024 Supersedes version of: 10/06/2020 Version: 2.0

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

### 1.1. Product identifier

|                |  |
|----------------|--|
| Product form   | : Substance                            |
| Substance name | : MAGNESIUM OXIDE SAMPLE ADDITIVE, OEA |
| Chemical name  | : Magnesium oxide                      |
| EC-No.         | : 215-171-9                            |
| CAS-No.        | : 1309-48-4                            |
| Product code   | : R51090                               |
| Product group  | : End product                          |

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

#### 1.2.1. Relevant identified uses

|                              |                        |
|------------------------------|------------------------|
| Main use category            | : Professional use     |
| Use of the substance/mixture | : Laboratory chemicals |
| Function or use category     | : Laboratory chemicals |

#### 1.2.2. Uses advised against

No additional information available

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

OEA Labs Ltd  
The Generator Quay House The Gallery  
Kings Wharf The Quay  
EX2 4AN Exeter – Devon  
United Kingdom  
T +44(0)1579 384174  
[technical@oealabs.com](mailto:technical@oealabs.com) - [oealabs.com](http://oealabs.com)

### 1.4. Emergency telephone number

No additional information available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII



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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name : MAGNESIUM OXIDE SAMPLE ADDITIVE, OEA  
CAS-No. : 1309-48-4  
EC-No. : 215-171-9

| Name            | Product identifier                      | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|---|-----|---|
| MAGNESIUM OXIDE | CAS-No.: 1309-48-4<br>EC-No.: 215-171-9 | 100 | Not classified  |

#### 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

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 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

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

##### 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".



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### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

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

Storage conditions : 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

#### 8.1.1 National occupational exposure and biological limit values

| MAGNESIUM OXIDE SAMPLE ADDITIVE, OEA (1309-48-4) |   |
|--|---|
| <b>Austria - Occupational Exposure Limits</b>    |   |
| Local name                                       | Magnesiumoxid   |
| MAK (OEL TWA)                                    | 10 mg/m <sup>3</sup> (E)<br>5 mg/m <sup>3</sup> (A)<br>5 mg/m <sup>3</sup> (Rauch, A)   |
| MAK (OEL STEL)                                   | 20 mg/m <sup>3</sup> (E, 2x 60(Miw) min)<br>10 mg/m <sup>3</sup> (A, 2x 60(Miw) min)<br>20 mg/m <sup>3</sup> (Rauch, A, 4x 15(Miw) min)   |
| Regulatory reference                             | BGBI. II Nr. 156/2021   |
| <b>Belgium - Occupational Exposure Limits</b>    |   |
| Local name                                       | Magnésium (oxyde de) (fumées) # Magnesiumoxide (rook)   |
| OEL TWA  | 10 mg/m <sup>3</sup>  |
| Regulatory reference                             | Koninklijk besluit/Arrêté royal 11/05/2021  |
| <b>Bulgaria - Occupational Exposure Limits</b>   |   |
| Local name                                       | Магнезиев оксид   |
| OEL TWA  | 10 mg/m <sup>3</sup>  |
| Regulatory reference                             | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.) |



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| MAGNESIUM OXIDE SAMPLE ADDITIVE, OEA (1309-48-4)     |   |
|--|---|
| <b>Croatia - Occupational Exposure Limits</b>        |   |
| Local name   | Magnezijev oksid, dim   |
| GVI (OEL TWA) [1]                                    | 10 mg/m <sup>3</sup> U (ukupna prašina)<br>4 mg/m <sup>3</sup> R (respirabilna prašina)   |
| Regulatory reference                                 | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)              |
| <b>Czech Republic - Occupational Exposure Limits</b> |   |
| Local name   | Oxid hořečnatý  |
| PEL (OEL TWA)  | 5 mg/m <sup>3</sup>   |
| NPK-P (OEL C)  | 10 mg/m <sup>3</sup>  |
| Regulatory reference                                 | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)   |
| <b>Denmark - Occupational Exposure Limits</b>        |   |
| Local name   | Magnesiumoxid   |
| OEL TWA [1]  | 6 mg/m <sup>3</sup> beregnet som Mg   |
| Regulatory reference                                 | BEK nr 202 af 21/02/2023  |
| <b>France - Occupational Exposure Limits</b>         |   |
| Local name   | Magnésium (oxyde de), fumées (Oxyde de magnésium)   |
| VME (OEL TWA)  | 10 mg/m <sup>3</sup>  |
| Remark   | Valeurs recommandées/admises  |
| Regulatory reference                                 | Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)  |
| <b>Greece - Occupational Exposure Limits</b>         |   |
| Local name   | Μαγνησίου, οξειδίου του   |
| OEL TWA  | 10 mg/m <sup>3</sup> εισπν.<br>5 mg/m <sup>3</sup> αναπν.   |
| Regulatory reference                                 | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους                                   |
| <b>Hungary - Occupational Exposure Limits</b>        |   |
| Local name   | MAGNÉZIUM-OXID (Mg-ra számítva)   |
| AK (OEL TWA)   | 6 mg/m <sup>3</sup> respirabilis frakció  |
| Remark   | i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik) |
| Regulatory reference                                 | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről  |
| <b>Ireland - Occupational Exposure Limits</b>        |   |
| Local name   | Magnesium oxide   |
| OEL TWA [1]  | 4 mg/m <sup>3</sup> respirable dust<br>5 mg/m <sup>3</sup> fume<br>10 mg/m <sup>3</sup> total inhalable dust  |
| OEL STEL   | 10 mg/m <sup>3</sup> fume   |



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| <b>MAGNESIUM OXIDE SAMPLE ADDITIVE, OEA (1309-48-4)</b> |  |
|---|--|
| Regulatory reference                                    | Chemical Agents Code of Practice 2021  |
| <b>Lithuania - Occupational Exposure Limits</b>         |  |
| Local name  | Magnio oksidas   |
| IPRV (OEL TWA)  | 4 mg/m <sup>3</sup>  |
| Regulatory reference                                    | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)  |
| <b>Poland - Occupational Exposure Limits</b>            |  |
| Local name  | Tlenek magnezu   |
| NDS (OEL TWA)   | 10 mg/m <sup>3</sup> frakcja wdychalna   |
| Remark  | Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. |
| Regulatory reference                                    | Dz. U. 2018 poz. 1286 wraz z późn. zm.   |
| <b>Portugal - Occupational Exposure Limits</b>          |  |
| Local name  | Óxido de magnésio  |
| OEL TWA   | 10 mg/m <sup>3</sup> I (Fração inalável)   |
| Remark  | A4 (Agente não classificável como carcinogénico no Homem)  |
| Regulatory reference                                    | Norma Portuguesa NP 1796:2014  |
| <b>Romania - Occupational Exposure Limits</b>           |  |
| Local name  | Oxid de magneziu   |
| OEL TWA   | 5 mg/m <sup>3</sup> (Fumuri)   |
| OEL STEL  | 15 mg/m <sup>3</sup> (Fumuri)  |
| Regulatory reference                                    | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)  |
| <b>Slovakia - Occupational Exposure Limits</b>          |  |
| Local name  | Oxid horečnatý   |
| NPHV (OEL TWA) [1]                                      | 4 mg/m <sup>3</sup> respirabilná frakcia<br>10 mg/m <sup>3</sup> inhalovateľná frakcia   |
| Regulatory reference                                    | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)  |
| <b>Spain - Occupational Exposure Limits</b>             |  |
| Local name  | Óxido de Magnesio  |
| VLA-ED (OEL TWA) [1]                                    | 10 mg/m <sup>3</sup> humos y polvo   |
| Regulatory reference                                    | Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT  |
| <b>United Kingdom - Occupational Exposure Limits</b>    |  |
| Local name  | Magnesium oxide  |
| WEL TWA (OEL TWA) [1]                                   | 4 mg/m <sup>3</sup> (as Mg) fume and respirable dust<br>10 mg/m <sup>3</sup> (as Mg) inhalable dust fume                                     |
| Regulatory reference                                    | EH40/2005 (Fourth edition, 2020). HSE  |
| <b>Iceland - Occupational Exposure Limits</b>           |  |
| Local name  | Magnesiumoxíð, sem Mg  |



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| <b>MAGNESIUM OXIDE SAMPLE ADDITIVE, OEA (1309-48-4)</b> |   |
|---|---|
| OEL TWA   | 6 mg/m <sup>3</sup>   |
| Regulatory reference                                    | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)   |
| <b>Norway - Occupational Exposure Limits</b>            |   |
| Local name  | Magnesiumoksid  |
| Greinseverdi (OEL TWA) [1]                              | 10 mg/m <sup>3</sup>  |
| Remark  | 1) Greinseverdien er fastsatt lík verðien for sjenerende støv.  |
| Regulatory reference                                    | FOR-2021-06-28-2248   |
| <b>USA - ACGIH - Occupational Exposure Limits</b>       |   |
| Local name  | Magnesium oxide   |
| ACGIH OEL TWA   | 10 mg/m <sup>3</sup> (I - Inhalable particulate matter)   |
| Remark (ACGIH)  | TLV® Basis: URT; metal fume fever. Notations: A4 (Not classifiable as a Human Carcinogen)   |
| Regulatory reference                                    | ACGIH 2024  |
| <b>MAGNESIUM OXIDE (1309-48-4)</b>                      |   |
| <b>Austria - Occupational Exposure Limits</b>           |   |
| Local name  | Magnesiumoxid   |
| MAK (OEL TWA)   | 10 mg/m <sup>3</sup> (E)<br>5 mg/m <sup>3</sup> (A)<br>5 mg/m <sup>3</sup> (Rauch, A)   |
| MAK (OEL STEL)  | 20 mg/m <sup>3</sup> (E, 2x 60(Miw) min)<br>10 mg/m <sup>3</sup> (A, 2x 60(Miw) min)<br>20 mg/m <sup>3</sup> (Rauch, A, 4x 15(Miw) min)   |
| Regulatory reference                                    | BGBl. II Nr. 156/2021   |
| <b>Belgium - Occupational Exposure Limits</b>           |   |
| Local name  | Magnésium (oxyde de) (fumées) # Magnesiumoxide (rook)   |
| OEL TWA   | 10 mg/m <sup>3</sup>  |
| Regulatory reference                                    | Koninklijk besluit/Arrêté royal 11/05/2021  |
| <b>Bulgaria - Occupational Exposure Limits</b>          |   |
| Local name  | Магнезиев оксид   |
| OEL TWA   | 10 mg/m <sup>3</sup>  |
| Regulatory reference                                    | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.) |
| <b>Croatia - Occupational Exposure Limits</b>           |   |
| Local name  | Magnezijev oksid, dim   |
| GVI (OEL TWA) [1]                                       | 10 mg/m <sup>3</sup> U (ukupna prašina)<br>4 mg/m <sup>3</sup> R (respirabilna prašina)   |
| Regulatory reference                                    | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)                      |



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| <b>MAGNESIUM OXIDE (1309-48-4)</b>                   |   |
|--|---|
| <b>Czech Republic - Occupational Exposure Limits</b> |   |
| Local name   | Oxid hořečnatý  |
| PEL (OEL TWA)  | 5 mg/m <sup>3</sup>   |
| NPK-P (OEL C)  | 10 mg/m <sup>3</sup>  |
| Regulatory reference                                 | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)   |
| <b>Denmark - Occupational Exposure Limits</b>        |   |
| Local name   | Magnesiumoxid   |
| OEL TWA [1]  | 6 mg/m <sup>3</sup> beregnet som Mg   |
| Regulatory reference                                 | BEK nr 202 af 21/02/2023  |
| <b>France - Occupational Exposure Limits</b>         |   |
| Local name   | Magnésium (oxyde de), fumées (Oxyde de magnésium)   |
| VME (OEL TWA)  | 10 mg/m <sup>3</sup>  |
| Remark   | Valeurs recommandées/admises  |
| Regulatory reference                                 | Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)  |
| <b>Greece - Occupational Exposure Limits</b>         |   |
| Local name   | Μαγνησίου, οξειδίο του  |
| OEL TWA  | 10 mg/m <sup>3</sup> εισπν.<br>5 mg/m <sup>3</sup> αναπν.   |
| Regulatory reference                                 | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους                                   |
| <b>Hungary - Occupational Exposure Limits</b>        |   |
| Local name   | MAGNÉZIUM-OXID (Mg-ra számítva)   |
| AK (OEL TWA)   | 6 mg/m <sup>3</sup> respirábilis frakció  |
| Remark   | i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik) |
| Regulatory reference                                 | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről  |
| <b>Ireland - Occupational Exposure Limits</b>        |   |
| Local name   | Magnesium oxide   |
| OEL TWA [1]  | 4 mg/m <sup>3</sup> respirable dust<br>5 mg/m <sup>3</sup> fume<br>10 mg/m <sup>3</sup> total inhalable dust  |
| OEL STEL   | 10 mg/m <sup>3</sup> fume   |
| Regulatory reference                                 | Chemical Agents Code of Practice 2021   |
| <b>Lithuania - Occupational Exposure Limits</b>      |   |
| Local name   | Magnio oksidas  |
| IPRV (OEL TWA)                                       | 4 mg/m <sup>3</sup>   |
| Regulatory reference                                 | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)   |





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| <b>MAGNESIUM OXIDE (1309-48-4)</b>                   |   |
|--|---|
| <b>Poland - Occupational Exposure Limits</b>         |   |
| Local name   | Tlenek magnezu  |
| NDS (OEL TWA)  | 10 mg/m <sup>3</sup> frakcja wdychalna  |
| Remark   | Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. |
| Regulatory reference                                 | Dz. U. 2018 poz. 1286 wraz z późn. zm.  |
| <b>Portugal - Occupational Exposure Limits</b>       |   |
| Local name   | Óxido de magnésio   |
| OEL TWA  | 10 mg/m <sup>3</sup> I (Fração inalável)  |
| Remark   | A4 (Agente não classificável como carcinogénico no Homem)   |
| Regulatory reference                                 | Norma Portuguesa NP 1796:2014   |
| <b>Romania - Occupational Exposure Limits</b>        |   |
| Local name   | Oxid de magneziu  |
| OEL TWA  | 5 mg/m <sup>3</sup> (Fumuri)  |
| OEL STEL   | 15 mg/m <sup>3</sup> (Fumuri)   |
| Regulatory reference                                 | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)   |
| <b>Slovakia - Occupational Exposure Limits</b>       |   |
| Local name   | Oxid horečnatý  |
| NPHV (OEL TWA) [1]                                   | 4 mg/m <sup>3</sup> respirabilná frakcia<br>10 mg/m <sup>3</sup> inhalovateľná frakcia  |
| Regulatory reference                                 | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)   |
| <b>Spain - Occupational Exposure Limits</b>          |   |
| Local name   | Óxido de Magnesio   |
| VLA-ED (OEL TWA) [1]                                 | 10 mg/m <sup>3</sup> humos y polvo  |
| Regulatory reference                                 | Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT   |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| Local name   | Magnesium oxide   |
| WEL TWA (OEL TWA) [1]                                | 4 mg/m <sup>3</sup> (as Mg) fume and respirable dust<br>10 mg/m <sup>3</sup> (as Mg) inhalable dust fume                                    |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE   |
| <b>Iceland - Occupational Exposure Limits</b>        |   |
| Local name   | Magnesiumoxíð, sem Mg   |
| OEL TWA  | 6 mg/m <sup>3</sup>   |
| Regulatory reference                                 | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)   |
| <b>Norway - Occupational Exposure Limits</b>         |   |
| Local name   | Magnesiumoksid  |
| Grenseverdi (OEL TWA) [1]                            | 10 mg/m <sup>3</sup>  |





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| MAGNESIUM OXIDE (1309-48-4)                |   |
|--|---|
| Remark                                     | 1) Grenseverdien er fastsatt lik verdien for sjenerende støv.                             |
| Regulatory reference                       | FOR-2021-06-28-2248   |
| USA - ACGIH - Occupational Exposure Limits |   |
| Local name                                 | Magnesium oxide   |
| ACGIH OEL TWA                              | 10 mg/m <sup>3</sup> (I - Inhalable particulate matter)                                   |
| Remark (ACGIH)                             | TLV® Basis: URT; metal fume fever. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference                       | ACGIH 2024  |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available



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### 8.2.3. Environmental exposure controls

#### 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                   |
| Colour  | : white.                  |
| Molecular mass                                  | : 40.3 g/mol Source: HSDB |
| Odour   | : odourless.              |
| Odour threshold                                 | : Not available           |
| Melting point                                   | : 2825 °C Source: HSDB    |
| Freezing point                                  | : Not applicable          |
| Boiling point                                   | : 3600 °C Source: HSDB    |
| Flammability                                    | : Non flammable.          |
| Explosive limits                                | : Not applicable          |
| Lower explosion limit                           | : Not applicable          |
| Upper explosion limit                           | : Not applicable          |
| Flash point                                     | : Not applicable          |
| Auto-ignition temperature                       | : Not applicable          |
| Decomposition temperature                       | : Not available           |
| pH  | : 10.3 Source: HSDB       |
| pH solution                                     | : Not available           |
| Viscosity, kinematic                            | : Not applicable          |
| Solubility                                      | : Not available           |
| Partition coefficient n-octanol/water (Log Kow) | : Not available           |
| Vapour pressure                                 | : 0 mm Hg Source: CAMEO   |
| Vapour pressure at 50°C                         | : Not available           |
| Density   | : Not available           |
| Relative density                                | : 3.6 Source: HSDB        |
| Relative vapour density at 20°C                 | : Not applicable          |
| Particle size                                   | : Not available           |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

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).



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### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
 Acute toxicity (dermal) : Not classified  
 Acute toxicity (inhalation) : Not classified

#### MAGNESIUM OXIDE SAMPLE ADDITIVE, OEA (1309-48-4)

|               |                         |
|---------------|-------------------------|
| LD50 oral rat | 3990 mg/kg Source: HSDB |
|---------------|-------------------------|

#### MAGNESIUM OXIDE (1309-48-4)

|               |                         |
|---------------|-------------------------|
| LD50 oral rat | 3990 mg/kg Source: HSDB |
|---------------|-------------------------|

Skin corrosion/irritation : Not classified  
 pH: 10.3 Source: HSDB

#### MAGNESIUM OXIDE (1309-48-4)

|    |                   |
|----|-------------------|
| pH | 10.3 Source: HSDB |
|----|-------------------|

Serious eye damage/irritation : Not classified  
 pH: 10.3 Source: HSDB

#### MAGNESIUM OXIDE (1309-48-4)

|    |                   |
|----|-------------------|
| pH | 10.3 Source: HSDB |
|----|-------------------|

Respiratory or skin sensitisation : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 STOT-single exposure : Not classified  
 STOT-repeated exposure : Not classified  
 Aspiration hazard : Not classified

#### MAGNESIUM OXIDE SAMPLE ADDITIVE, OEA (1309-48-4)

|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

### 11.2. Information on other hazards

No additional information available

## 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.  
 Hazardous to the aquatic environment, short-term (acute) : Not classified  
 Hazardous to the aquatic environment, long-term (chronic) : Not classified  
 Not rapidly degradable



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### 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. Endocrine disrupting properties

No additional information available

### 12.7. 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 / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|---|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated



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### Inland waterway transport

Not regulated

### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

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

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### Germany

Employment restrictions

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK)

: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 5208).

Storage class (LGK, TRGS 510)

: LGK 13 - Non-combustible solids.

Joint storage table

|          |         |          |          |           |
|----------|---------|----------|----------|-----------|
| LGK 1    | LGK 2A  | LGK 2B   | LGK 3    | LGK 4.1A  |
| LGK 4.1B | LGK 4.2 | LGK 4.3  | LGK 5.1A | LGK 5.1B  |
| LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C  |
| LGK 6.1D | LGK 6.2 | LGK 7    | LGK 8A   | LGK 8B    |
| LGK 10   | LGK 11  | LGK 12   | LGK 13   | LGK 10-13 |

Joint storage not permitted for

: LGK 1, LGK 6.2, LGK 7.

Joint storage with restrictions permitted for

: LGK 4.1A, LGK 5.1C.



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Joint storage permitted for : LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

ABM category : A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

### Switzerland

Storage class (LK) : NG - Non-hazardous

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |   |
|--------|---|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate   |
| BCF    | Bioconcentration factor   |
| BLV    | Biological limit value  |
| BOD    | Biochemical oxygen demand (BOD)   |
| COD    | Chemical oxygen demand (COD)  |
| DMEL   | Derived Minimal Effect level  |
| DNEL   | Derived-No Effect Level   |
| EC-No. | European Community number   |
| EC50   | Median effective concentration  |
| EN     | European Standard   |
| IARC   | International Agency for Research on Cancer   |
| IATA   | International Air Transport Association   |
| IMDG   | International Maritime Dangerous Goods  |
| LC50   | Median lethal concentration   |
| LD50   | Median lethal dose  |
| LOAEL  | Lowest Observed Adverse Effect Level  |
| NOAEC  | No-Observed Adverse Effect Concentration  |
| NOAEL  | No-Observed Adverse Effect Level  |
| NOEC   | No-Observed Effect Concentration  |



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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

The classification complies with : ATP 12

Safety Data Sheet (SDS)\_OEA, EU

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.