# MATERION

### PRODUCT INFORMATION SHEET

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

1.1. Product identifier

Name of the substance Magnesium oxide (MgO) **Identification number** 1309-48-4 (CAS number)

**Synonyms** None. **Document number** 58

**Issue date** 20-July-2015

Version number

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

**Identified uses** Not available. Uses advised against None known.

1.3. Details of the supplier of the product information sheet

**Supplier** 

Company name Materion Advanced Materials Group

**Address** 42 Mt. Fbo Road South Brewster, NY 10509

**United States** 

**Division** 

**Telephone** Supplier Phone 1+845.279.0900

Not available. e-mail **Contact person** Not available.

1.4. Emergency telephone Chemtrec 1+703.527.3887

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification according to Regulation (EC) No 1272/2008 as amended

**Hazard summary** 

**Physical hazards** Not classified for physical hazards. **Health hazards** Not classified for health hazards.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** Not available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Magnesium oxide

**Hazard pictograms** None. Signal word None.

**Hazard statements** The substance does not meet the criteria for classification.

**Precautionary statements** 

**Prevention** Not available. Response Not available. Not available. Storage Not available. **Disposal** 

Supplemental label

information

None.

2.3. Other hazards None known.

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

#### 3.1. Substances

Material name: Magnesium oxide (MgO) 1532 Version #: 01 Revision date: 20-July-2015 Print date: 20-July-2015 1/9 **General information** 

Chemical name % CAS-No. / EC REACH Registration No. INDEX No. Notes No.

Magnesium oxide 100 - 100 1309-48-4 - - -

215-171-9

Classification: DSD: -

CLP: -

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

**General information** Not available.

4.1. Description of first aid measures

InhalationNot available.Skin contactNot available.Eye contactNot available.IngestionNot available.4.2. Most importantNot available.

symptoms and effects, both

acute and delayed

4.3. Indication of any immediate medical attention

and special treatment needed

Not available.

**SECTION 5: Firefighting measures** 

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

media

Not available.

illeula

Unsuitable extinguishing media

Not available.

5.2. Special hazards arising

from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

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

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Not available.

For emergency responders

Not available.

6.2. Environmental

Not available.

precautions

6.3. Methods and material for

Not available.

containment and cleaning up

Not available.

sections

**SECTION 7: Handling and storage** 

7.1. Precautions for safe

6.4. Reference to other

Not available.

handling

7.2. Conditions for safe storage, including any

7.3. Specific end use(s)

Not available.

incompatibilities

Not available.

Material name: Magnesium oxide (MgO)

1532 Version #: 01 Revision date: 20-July-2015 Print date: 20-July-2015 2 / 9

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

# 8.1. Control parameters

# **Occupational exposure limits**

Material	ce (GwV), BGBI. II, no. 184/20 Type	Value	Form
Magnesium oxide (MgO)	MAK	5 mg/m3	Respirable fraction.
		5 mg/m3	Respirable fume.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		20 mg/m3	Respirable fume.
		10 mg/m3	Respirable fraction.
Components	Туре	Value	Form
Magnesium oxide (CAS 1309-48-4)	MAK	5 mg/m3	Respirable fume.
-505 .5 .,		5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Respirable fume.
		20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Belgium. Exposure Limit Value	s.	_	·
Material	Туре	Value	Form
Magnesium oxide (MgO)	TWA	10 mg/m3	Fume.
Components	Туре	Value	Form
Magnesium oxide (CAS 1309-48-4)	TWA	10 mg/m3	Fume.
Bulgaria. OELs. Regulation No Material	13 on protection of workers ag Type	ainst risks of exposure to Value	chemical agents at wo
Magnesium oxide (MgO)	TWA	10 mg/m3	
Components	Туре	Value	
Magnesium oxide (CAS 1309-48-4)	TWA	10 mg/m3	
	F		
	exposure Limit values in the w	orkplace (ELVs), Annexes	s 1 and 2, Narodne Nov
Croatia. Dangerous Substance 13/09 Material	Type	orkplace (ELVs), Annexes Value	s 1 and 2, Narodne Nov Form
13/09	-	Value 4 mg/m3	Form Respirable dust.
13/09 Material	Туре	Value	Form
Material  Magnesium oxide (MgO)	Туре	Value 4 mg/m3	Form Respirable dust.
13/09 Material	<b>Type</b> MAC	Value 4 mg/m3 10 mg/m3	Form  Respirable dust. Total dust.
Magnesium oxide (MgO)  Components  Magnesium oxide (CAS	Type MAC Type	Value 4 mg/m3 10 mg/m3 Value	Form  Respirable dust.  Total dust.  Form
Material Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor	Type MAC Type	Value 4 mg/m3 10 mg/m3 Value 4 mg/m3 10 mg/m3	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.
Material Magnesium oxide (MgO)  Components Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended.	Type  MAC  Type  MAC  MAC  y atmosphere and dangerous s	Value 4 mg/m3 10 mg/m3 Value 4 mg/m3 10 mg/m3	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.
13/09 Material Magnesium oxide (MgO)  Components Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended. Material	Type  MAC  Type  MAC  MAC  y atmosphere and dangerous s  Type	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  Total dust.  ulation, PI 311/73, as  Form
13/09 Material Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended.	Type  MAC  Type  MAC  y atmosphere and dangerous s  Type  TWA	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  Total dust.  ulation, PI 311/73, as
Material Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended.  Material  Magnesium oxide (MgO)  Components	Type  MAC  Type  MAC  y atmosphere and dangerous s  Type  TWA Type	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg Value  10 mg/m3 Value	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  ulation, PI 311/73, as  Form  Fume. Form
Material Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended. Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)	Type  MAC  Type  MAC  y atmosphere and dangerous s  Type  TWA  Type  TWA  Type	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg Value  10 mg/m3	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  Total dust.  ulation, PI 311/73, as  Form  Fume.
Material Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended.  Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Czech Republic. OELs. Governa	Type  MAC  Type  MAC  y atmosphere and dangerous s  Type  TWA  Type  TWA  Type	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg Value  10 mg/m3 Value	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  ulation, PI 311/73, as  Form  Fume. Form
Material Magnesium oxide (MgO)  Components Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended. Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS	Type  MAC  Type  MAC  y atmosphere and dangerous s  Type  TWA  Type  TWA  Type  TWA  Ceiling	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg Value  10 mg/m3 Value  10 mg/m3 Value  10 mg/m3	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  ulation, PI 311/73, as  Form  Fume. Form
Material Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended. Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Czech Republic. OELs. Governmenterial	Type  MAC  Type  MAC  y atmosphere and dangerous s  Type  TWA  Type  TWA  Type  TWA  Type  TWA  Type	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg Value  10 mg/m3 Value  10 mg/m3 Value  10 mg/m3 Value	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  ulation, PI 311/73, as  Form  Fume. Form
Material Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended. Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Czech Republic. OELs. Governmenterial	Type  MAC  Type  MAC  y atmosphere and dangerous s  Type  TWA  Type  TWA  Type  TWA  Ceiling	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg Value  10 mg/m3 Value  10 mg/m3 Value  10 mg/m3	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  ulation, PI 311/73, as  Form  Fume. Form
Material Magnesium oxide (MgO)  Components Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended. Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Czech Republic. OELs. Governmental  Magnesium oxide (MgO)  Components  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Czech Republic. OELs. Governmental  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS	Type  MAC  Type  MAC  y atmosphere and dangerous s  Type  TWA  Type  TWA  Type  TWA  Ceiling TWA	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg  Value  10 mg/m3 Value  10 mg/m3 Value  10 mg/m3  Value  10 mg/m3	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  ulation, PI 311/73, as  Form  Fume. Form
Material Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Cyprus. OELs. Control of factor amended.  Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Czech Republic. OELs. Governmental  Magnesium oxide (MgO)	Type  MAC  Type  MAC  y atmosphere and dangerous s  Type  TWA  Type  TWA  Type  TWA  Ceiling  TWA  Type	Value  4 mg/m3 10 mg/m3 Value  4 mg/m3 10 mg/m3 ubstances in factories reg Value  10 mg/m3 Value  10 mg/m3 Value  10 mg/m3 Value  10 mg/m3 Value	Form  Respirable dust. Total dust. Form  Respirable dust.  Total dust.  ulation, PI 311/73, as  Form  Fume. Form

Material name: Magnesium oxide (MgO)
PIS EU
Version #: 01 Revision date: 20-July-2015 Print date: 20-July-2015 3 / 9

Туре	Value	
TLV	6 mg/m3	
Туре	Value	
TLV	6 mg/m3	
lits Type	Value	Form
TWA	10 mg/m3	Dust.
Туре	Value	Form
TWA	10 mg/m3	Dust.
/LEP) for Occupational Expo Type	sure to Chemicals in France Value	e, INRS ED 984 Form
	10 ma/m3	Fume.
Type	Value	Form
VME	10 mg/m3	Fume.
	Investigation of Health Ha	zards of Chemical
Type	Value	Form
TWA	4 ma/m3	Inhalable fraction.
	1,5 mg/m3	Respirable fraction
Туре	Value	Form
TWA	4 mg/m3	Inhalable fraction.
	1,5 mg/m3	Respirable fraction
	=	Form
AGW	:	Inhalable fraction. Respirable fraction
Type		Form
		Inhalable fraction.
WDM	10 mg/ms	ווומומטוב וומכנוטוו.
	1,25 mg/m3	Respirable fraction
99, as amended)		
Туре	Value	Form
TWA	5 mg/m3	Respirable.
_	10 mg/m3	Inhalable
Typo	V-I	
Туре	Value	Form
TWA	5 mg/m3	Respirable.
	5 mg/m3	Respirable.
TWA	5 mg/m3 10 mg/m3	
	5 mg/m3 10 mg/m3	Respirable.
TWA  Chemical Safety of Workplace Type  STEL	5 mg/m3 10 mg/m3 ces Value 24 mg/m3	Respirable. Inhalable Form Respirable.
TWA  Chemical Safety of Workplac Type  STEL TWA	5 mg/m3 10 mg/m3  ces  Value  24 mg/m3 6 mg/m3	Respirable. Inhalable Form Respirable. Respirable.
TWA  Chemical Safety of Workplace Type  STEL	5 mg/m3 10 mg/m3 ces Value 24 mg/m3	Respirable. Inhalable Form Respirable.
TWA  Chemical Safety of Workplace Type  STEL TWA Type  STEL STEL	5 mg/m3 10 mg/m3  Value 24 mg/m3 6 mg/m3 Value 24 mg/m3	Respirable. Inhalable  Form  Respirable. Respirable. Form  Respirable.
TWA  Chemical Safety of Workplace Type  STEL TWA Type  STEL  TWA Type  STEL  TWA	5 mg/m3 10 mg/m3  value 24 mg/m3 6 mg/m3 Value 24 mg/m3 6 mg/m3	Respirable. Inhalable  Form  Respirable. Respirable. Form
TWA  Chemical Safety of Workplace Type  STEL TWA Type  STEL STEL	5 mg/m3 10 mg/m3  value 24 mg/m3 6 mg/m3 Value 24 mg/m3 6 mg/m3	Respirable. Inhalable  Form  Respirable. Respirable. Form  Respirable.
	TLV Type TLV  Tits Type TWA Type TWA  /LEP) for Occupational Expo Type VME Type VME Type VME Type TWA  Type AGW Type AGW  Type AGW  Type AGW  Type AGW  Type	TLV 6 mg/m3 Type Value  TLV 6 mg/m3  Tits  Type Value  TWA 10 mg/m3 Type Value  TWA 10 mg/m3  Type Value  TWA 10 mg/m3  T/LEP) for Occupational Exposure to Chemicals in France Type Value  VME 10 mg/m3  Type Value  VME 10 mg/m3  Type Value  TWA 4 mg/m3 1,5 mg/m3  Type Value  AGW 10 mg/m3 1,25 mg/m3  Type Value  TYPE Value

Material name: Magnesium oxide (MgO)
PIS EU
Version #: 01 Revision date: 20-July-2015 Print date: 20-July-2015 4 / 9

Components	999 on occupational exposu Type	Value	
Magnesium oxide (CAS 1309-48-4)	TWA	6 mg/m3	
Ireland. Occupational Exposure I		Value	Form
Material	Туре	Value	FOIIII
Magnesium oxide (MgO)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Components	Туре	Value	Form
Magnesium oxide (CAS 1309-48-4)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
taly. Occupational Exposure Lin	nits		
Material	Туре	Value	Form
Magnesium oxide (MgO)	TWA	10 mg/m3	Inhalable fraction.
Components	Туре	Value	Form
Magnesium oxide (CAS 1309-48-4)	TWA	10 mg/m3	Inhalable fraction.
Lithuania. OELs. Limit Values fo Material	r Chemical Substances, Gene Type	eral Requirements Value	
Magnesium oxide (MgO)	TWA	4 mg/m3	
Components	Туре	Value	
<u> </u>			
Magnesium oxide (CAS 1309-48-4)	TWA	4 mg/m3	
Norway. Administrative Norms fo Material	or Contaminants in the Worl Type	kplace Value	
Magnesium oxide (MgO)	TLV	10 mg/m3	
Components	Туре	Value	
Magnesium oxide (CAS 1309-48-4)	TLV	10 mg/m3	
Poland. MACs. Minister of Labou	r and Social Policy Regardin	g Maximum Allowable Cond	centrations and Intensi
n Working Environment Material	Туре	Value	Form
riateriai	Туре		1 01111
	TWA	10 mg/m3	Inhalable fraction.
	TWA <b>Type</b>	10 mg/m3 <b>Value</b>	Inhalable fraction. <b>Form</b>
Components Magnesium oxide (CAS			_
Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupat	<b>Type</b> TWA	Value 10 mg/m3	Form
Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupat Material  Magnesium oxide (MgO)	Type  TWA  cional exposure to chemical Type  TWA	Value  10 mg/m3  agents (NP 1796) Value  10 mg/m3	Form Inhalable fraction.  Form Inhalable fraction.
Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupat Material  Magnesium oxide (MgO)	Type  TWA  cional exposure to chemical  Type	Value  10 mg/m3  agents (NP 1796)  Value	Form  Inhalable fraction.  Form
Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupat Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS	Type  TWA  cional exposure to chemical Type  TWA	Value  10 mg/m3  agents (NP 1796) Value  10 mg/m3	Form Inhalable fraction.  Form Inhalable fraction.
Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupal Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Romania. OELs. Protection of wo	Type TWA  cional exposure to chemical Type TWA Type TWA Type	Value  10 mg/m3  agents (NP 1796)	Form Inhalable fraction.  Form Inhalable fraction. Form Inhalable fraction.
Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupat Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Romania. OELs. Protection of wo	Type  TWA  tional exposure to chemical Type  TWA Type  TWA  Type  TWA  Type  TWA  Type	Value  10 mg/m3  agents (NP 1796) Value  10 mg/m3 Value  10 mg/m3  mical agents at the workpla Value	Form Inhalable fraction.  Form Inhalable fraction. Form Inhalable fraction. Form Form Form Inhalable fraction.
Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupat Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Romania. OELs. Protection of wo	Type  TWA  cional exposure to chemical Type  TWA Type  TWA  Type  TWA  orkers from exposure to chemical Type  STEL	Value  10 mg/m3  agents (NP 1796) Value  10 mg/m3 Value  10 mg/m3  mical agents at the workplate Value  15 mg/m3	Form Inhalable fraction.  Form Inhalable fraction. Form Inhalable fraction. Form Form Form Inhalable fraction.
Magnesium oxide (MgO) Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupat Material  Magnesium oxide (MgO) Components  Magnesium oxide (CAS 1309-48-4)  Romania. OELs. Protection of wo Material  Magnesium oxide (MgO)	Type  TWA  cional exposure to chemical Type  TWA Type  TWA  Type  TWA  orkers from exposure to chemical Type  STEL TWA	Value  10 mg/m3  agents (NP 1796) Value  10 mg/m3 Value  10 mg/m3  mical agents at the workpla Value  15 mg/m3 5 mg/m3	Form Inhalable fraction.  Form Inhalable fraction. Form Inhalable fraction.  Form Form Form Form Form
Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupat Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Romania. OELs. Protection of wo Material  Magnesium oxide (MgO)	Type  TWA  cional exposure to chemical Type  TWA Type  TWA  Type  TWA  orkers from exposure to chemical Type  STEL TWA Type	Value  10 mg/m3  agents (NP 1796) Value  10 mg/m3 Value  10 mg/m3  value  15 mg/m3 5 mg/m3 5 mg/m3 Value	Form Inhalable fraction.  Form Inhalable fraction. Form Inhalable fraction.  Form Form Fume. Fume. Fume. Form
Components  Magnesium oxide (CAS 1309-48-4)  Portugal. VLEs. Norm on occupat Material  Magnesium oxide (MgO)  Components  Magnesium oxide (CAS 1309-48-4)  Romania. OELs. Protection of wo	Type  TWA  cional exposure to chemical Type  TWA Type  TWA  Type  TWA  orkers from exposure to chemical Type  STEL TWA	Value  10 mg/m3  agents (NP 1796) Value  10 mg/m3 Value  10 mg/m3  mical agents at the workpla Value  15 mg/m3 5 mg/m3	Form Inhalable fraction.  Form Inhalable fraction. Form Inhalable fraction.  Form Form Form Form Form

Material name: Magnesium oxide (MgO)

1532 Version #: 01 Revision date: 20-July-2015 Print date: 20-July-2015 5 / 9

Material	Туре	Value	Form
Magnesium oxide (MgO)	TWA	4 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Components	Туре	Value	Form
Magnesium oxide (CAS 1309-48-4)	TWA	4 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Spain. Occupational Expo		_	_
Material	Туре	Value	Form
Magnesium oxide (MgO)	TWA	10 mg/m3	Dust and fume.
Components	Туре	Value	Form
Magnesium oxide (CAS 1309-48-4)	TWA	10 mg/m3	Dust and fume.
Switzerland. SUVA Grenz	werte am Arbeitsplatz		
Material	Туре	Value	Form
Magnesium oxide (MgO)	TWA	3 mg/m3	Respirable dust.
3 (3)		3 mg/m3	Fume and respirable dus
Components	Туре	Value	Form
Magnesium oxide (CAS 1309-48-4)	TWA	3 mg/m3	Respirable dust.
2000 .0 .,		3 mg/m3	Fume and respirable dus
UK. EH40 Workplace Expe	osure Limits (WELs)		
Material	Туре	Value	Form
Magnesium oxide (MgO)	TWA	4 mg/m3	Respirable dust and/or fume.
		10 mg/m3	Inhalable dust.
Components	Туре	Value	Form
Magnesium oxide (CAS 1309-48-4)	TWA	4 mg/m3	Respirable dust and/or fume.
		10 mg/m3	Inhalable dust.
ogical limit values	No biological exposure limits noted	for the ingredient(s).	
ommended monitoring cedures	Not available.		
ived no-effect level EL)	Not available.		
dicted no effect centrations (PNECs)	Not available.		
Exposure controls			
ropriate engineering trols	Not available.		

Not available.

**Eye/face protection** Skin protection

- Hand protection Not available. Not available.

- Other **Respiratory protection** Not available. Thermal hazards Not available. Not available. **Hygiene measures Environmental exposure** Not available.

controls

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

**Physical state** Solid. **Form** Not available.

Material name: Magnesium oxide (MgO) 1532 Version #: 01 Revision date: 20-July-2015 Print date: 20-July-2015 6/9

Colour Not available. Odour Not applicable. **Odour threshold** Not available.

pН 10,3 Saturated solution in water

Melting point/freezing point 2800 °C (5072 °F) Initial boiling point and 3600 °C (6512 °F)

boiling range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit -Not available.

upper (%)

< 0,0000001 kPa at 25 °C Vapour pressure

Vapour density Not available. **Relative density** Not available.

Solubility(ies)

Solubility (water) 0,09 g/l at 86°F Solubility (other) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** Not available. **Explosive properties** Not available. **Oxidizing properties** 

9.2. Other information

Density 3,58 g/cm3 **Molecular formula** Mg-O Molecular weight 40,3 g/mol Specific gravity 3,58

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

10.1. Reactivity Not available. 10.2. Chemical stability Not available. 10.3. Possibility of hazardous Not available.

reactions

10.4. Conditions to avoid Not available. 10.5. Incompatible materials Not available. Not available. 10.6. Hazardous

decomposition products

## **SECTION 11: Toxicological information**

**General information** Not available. Information on likely routes of exposure **Inhalation** Not available. Skin contact Not available. Not available. **Eye contact** Ingestion Not available. **Symptoms** Not available.

11.1. Information on toxicological effects

**Acute toxicity** No data available. Not available. Skin corrosion/irritation

Material name: Magnesium oxide (MgO) PIS EU 7/9 1532 Version #: 01

Revision date: 20-July-2015 Print date: 20-July-2015 Serious eye damage/eye

irritation

Not available.

**Respiratory sensitisation** Not available. Skin sensitisation Not available. Germ cell mutagenicity Not available. Carcinogenicity Not available. Reproductive toxicity Not available. Specific target organ toxicity Not available.

- single exposure

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Not available. Mixture versus substance Not available.

information

Other information Not available.

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

12.1. Toxicity No toxicity data noted for the ingredient(s).

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

Not available.

potential

**Partition coefficient** 

Not available.

n-octanol/water (log Kow)

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil Not available.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects Not available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste Not available. Contaminated packaging Not available. **EU** waste code Not available.

## **SECTION 14: Transport information**

### **ADR**

Not regulated as dangerous goods.

**RID** 

Not regulated as dangerous goods.

**ADN** 

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

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

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Material name: Magnesium oxide (MgO) PIS EU 1532 Version #: 01 Revision date: 20-July-2015 Print date: 20-July-2015 8/9 Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

## Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Directive 94/33/EC on the protection of young people at work, as amended

Not listed.

Not available. National regulations 15.2. Chemical safety Not available.

assessment

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

List of abbreviations Not available. Not available. References Information on evaluation Not available.

method leading to the classification of mixture

**Training information** Not available. **Further information** Not available.

PIS EU 1532 Version #: 01 Revision date: 20-July-2015 Print date: 20-July-2015 9/9