

**Magnesium oxide****13138-1KG**

Version 1.2

Issuing date

Revision Date 10/02/2017

Print Date 08/07/2019

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information**

- Trade name : Magnesium oxide
- Number : 000000020697
- Recommended use of the chemical and restrictions on use : Laboratory chemicals
- Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH  
Wunstorfer Straße 40  
Seelze, 30926
- For further information, please contact: : 1-800-368-0050  
+1-231-726-3171  
(Monday-Friday, 9:00am-5:00pm)
- In case of emergency call** : **Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**  
: **In Japan: +(81)-345209637**  
: (24 hours/day, 7 days/week)

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

**GHS Label elements, including precautionary statements**

- Precautionary statements : **Prevention:**  
Use personal protective equipment as required.
- Other hazards which do not result in classification : Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

- Formula : MgO

**Magnesium oxide**
**13138-1KG**

Version 1.2

Issuing date

Revision Date 10/02/2017

Print Date 08/07/2019

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Magnesium oxide	1309-48-4	100.00 %
Magnesium oxide		

Note: none

**4. FIRST AID MEASURES**

- General advice : First aider needs to protect himself.  
Move out of dangerous area.  
Take off all contaminated clothing immediately.
- Inhalation : Consult a physician after significant exposure.
- Skin contact : After contact with skin, wash immediately with plenty of water.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids.  
Protect unharmed eye.  
If eye irritation persists, consult a physician.
- Ingestion : Immediately give large quantities of water to drink.  
If accidentally swallowed obtain immediate medical attention.

**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:  
Magnesium oxide
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, : Evacuate personnel to safe areas.

**Magnesium oxide**
**13138-1KG**

Version 1.2

Issuing date

Revision Date 10/02/2017

Print Date 08/07/2019

protective equipment and  
emergency procedures

Wear personal protective equipment. Unprotected persons must be kept away.  
Ensure adequate ventilation.  
Avoid dust formation.  
Avoid breathing dust.  
Avoid contact with skin, eyes and clothing.

Environmental precautions

: Do not flush into surface water or sanitary sewer system.

Methods and materials for  
containment and cleaning up

: Ventilate the area.  
Avoid dust formation.  
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**7. HANDLING AND STORAGE**
**Handling**

Precautions for safe handling

: Wear personal protective equipment.  
Use only in well-ventilated areas.  
Avoid breathing dust.  
Avoid contact with skin, eyes and clothing.

Advice on protection against  
fire and explosion

: Normal measures for preventive fire protection.

**Storage**

Conditions for safe storage,  
including any  
incompatibilities

: Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Appropriate engineering controls**

Use with local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

Respiratory protection

: In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection

: Protective gloves

**Magnesium oxide****13138-1KG**

Version 1.2

Issuing date

Revision Date 10/02/2017

Print Date 08/07/2019

	Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety glasses with side-shields
Skin and body protection	: Protective suit
Hygiene measures	: Separate rooms are required for washing, showering and changing clothes. Keep working clothes separately. Keep away from food and drink.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: powder
Colour	: white
Odour	: odourless
pH	: Note: alkaline
Melting point/range	: 2,852 °C
Boiling point/boiling range	: 3,600 °C at 1,013 hPa
Flash point	: Note: Not applicable
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapour pressure	: Note: no data available

**Magnesium oxide****13138-1KG**

Version 1.2

Issuing date

Revision Date 10/02/2017

Print Date 08/07/2019

Density	: ca. 3.58 g/cm <sup>3</sup> at 20 °C
Water solubility	: Note: practically insoluble
Partition coefficient: n-octanol/water	: Note: Not applicable
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: Note: not auto-flammable
Viscosity, dynamic	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 40.3 g/mol

**10. STABILITY AND REACTIVITY**

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Avoid dust formation.
Incompatible materials to avoid	: Acids
Hazardous decomposition products	: No hazardous decomposition products known.

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: Note: no data available
---------------------	---------------------------

**Magnesium oxide****13138-1KG**

Version 1.2

Issuing date

Revision Date 10/02/2017

Print Date 08/07/2019

Acute inhalation toxicity : Note: no data available

Skin irritation : Note: no data available

Eye irritation : Note: no data available

Sensitisation : Note: no data available

Genotoxicity in vitro : Note: no data available

Further information : Note: No toxicology information is available.

**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : Note: no data available

Toxicity to algae : Note: no data available

Toxicity to bacteria : Note: no data available

**Other adverse effects**

Additional ecological information : We have no quantitative data concerning the ecological effects of this product.

**13. DISPOSAL CONSIDERATIONS**

Disposal methods : In accordance with local and national regulations.

**Magnesium oxide****13138-1KG**

Version 1.2

Issuing date

Revision Date 10/02/2017

Print Date 08/07/2019

**14. TRANSPORT INFORMATION****ADR**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**RID**

Not dangerous goods

**15. REGULATORY INFORMATION****National regulatory information**

Fire Service Law : Not relevant

Poisonous and Deleterious  
Substances Control Law : Not relevant**Other international regulations****Notification status**US. Toxic Substances  
Control Act : On TSCA InventoryAustralia. Industrial Chemical  
(Notification and  
Assessment) Act : On the inventory, or in compliance with the inventoryCanada. Canadian  
Environmental Protection Act  
(CEPA). Domestic  
Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals  
Inventory (KECI) : On the inventory, or in compliance with the inventory

**Magnesium oxide**
**13138-1KG**

Version 1.2

Issuing date

Revision Date 10/02/2017

Print Date 08/07/2019

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

**16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 1	1
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 05/26/2017

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group