Magnesium oxide

13138-500G

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SECTION 1. IDENTIFICATION

Product name	:	Magnesium oxide
Number	:	000000020697
Product Use Description	:	Laboratory chemicals
Manufacturer or supplier's details	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926
For more information call	:	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**
	:	
	:	(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form	:	powder
Color	:	white
Odor	:	odourless

Classification of the substance or mixture

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

Precautionary statements : **Prevention:**
Use personal protective equipment as required.

Hazards not otherwise classified : Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : MgO

Chemical nature : Substance

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

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation : If inhaled, remove to fresh air. Consult a physician after significant exposure.

Skin contact : After contact with skin, wash immediately with plenty of water. Call a physician if irritation develops or persists.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If easy to do, remove contact lens, if worn. Protect unharmed eye. If eye irritation persists, consult a physician.

Ingestion : Rinse mouth with water. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

Notes to physician

Most important symptoms/effects, acute and delayed	:	No information available.
Indication of immediate medical attention and special treatment needed, if necessary	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. 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).

SECTION 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 container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.
Engineering measures	:	Use with local exhaust ventilation.
Eye protection	:	Safety glasses with side-shields
Hand protection	:	Protective gloves Gloves must be inspected prior to use. Replace when worn.
Skin and body protection	:	Protective suit
Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment.
Hygiene measures	:	Separate rooms are required for washing, showering and

changing clothes.
Keep working clothes separately.
Keep away from food and drink.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Magnesium oxide	1309-48-4	TWA : Time weighted average	10 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Form of exposure : Inhalable fraction.			

Magnesium oxide	1309-48-4	PEL : Permissible exposure limit	15 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Total particulate.			

Magnesium oxide	1309-48-4	TWA : Time weighted average	10 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Total particulate.			

Magnesium oxide	1309-48-4	TWA : Time weighted average	10 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Form of exposure : Inhalable fraction.			

Magnesium oxide	1309-48-4	PEL : Permissible exposure limit	15 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Total particulate.			

Magnesium oxide	1309-48-4	TWA : Time weighted average	10 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Total particulate.			

Magnesium oxide	1309-48-4	TWA : Time weighted average	15 millions of particles per cubic foot of air	03 2016	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Respirable fraction.			

Magnesium oxide	1309-48-4	TWA : Time weighted average	15 mg/m3	03 2016	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Total dust.			

Magnesium oxide	1309-48-4	TWA : Time weighted average	5 mg/m3	03 2016	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Respirable fraction.			

Magnesium oxide	1309-48-4	TWA : Time weighted average	50 millions of particles per cubic foot of air	03 2016	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Total dust.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	powder
Color	:	white
Odor	:	odourless
Odor threshold	:	Note: No data available
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
Vapor pressure	:	Note: No data available

Density	:	ca. 3.58 g/cm3 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

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Hazardous polymerisation does not occur.
Conditions to avoid	:	Avoid dust formation.
Incompatible materials	:	Acids
Hazardous decomposition products	:	No hazardous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	Note: No data available
Acute inhalation toxicity	:	Note: No data available
Acute dermal 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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

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

Elimination information (persistence and degradability)

Bioaccumulation : Note: No data available

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

Further information on ecology

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

Disposal methods : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances : On TSCA Inventory

Control Act

Australia. Industrial Chemical (Notification and Assessment) Act	:	On the inventory, or in compliance with the inventory
Canada. 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
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 (IECSC)	:	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

National regulatory information

SARA 302 Components	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	:	Acute Health Hazard

California Prop. 65	:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
Massachusetts RTK	:	Magnesium oxide	1309-48-4
New Jersey RTK	:	Magnesium oxide	1309-48-4
Pennsylvania RTK	:	Magnesium oxide	1309-48-4

SECTION 16. OTHER INFORMATION

		HMIS III	NFPA
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.
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