MAGNESIUM OXIDE

MATERIAL SAFETY DATA SHEET

According to regulation (EU) no.1907/2006



Revision	•	01
1101011	•	<u><u></u></u>

Date : August 10, 2022

MSDS Number :116

Section 1 - Chemical Product and Company Identification

1.1 Product Name	: MAGNESIUM OXIDE
Synonyms	: Magnesia usta; Calcined Brucite, Heavy Powder
CAS No.	: 1309-48-4
HS Code	2519 90 40
Chemical Formula	: MgO
Molecular Weight	: 40.30 g/mol
Product Code	: A-2137
Brand	: SMART-LAB
1.2 Manufacturer	:PT.Smart-Lab Indonesia
Address	: Ruko Boulevard Taman Tekno Blok E No. 9-11, BSD Serpong,
	Tangerang - Indonesia
Website	:www.smartlabid.com
Email	: sales@smartlabid.com
For information	: Telp: +62 21- 7588 0205(Hunting), fax: +62-21-7588 0198
1.3 Application	: General Chemical reagent
Emergency Telephor	ne: +62-21-7588 0205(Hunting)

Section 2 - Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3 - Composition, Information on Ingredients

3.1 Substances

Synonyms	: Magnesia, Magnesium Oxide
Formula	: MgO
Molecular weight	: 40.30 g/mol
CAS-No.	: 1309-48-4
EC-No.	: 215-171-9
Index-No.	:-

3.2 Mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

Section 4 - First Aid Measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

According to regulation (EU) no.1907/2006



MAGNESIUM OXIDE

Revision : 01

Date : August 10, 2022

MSDS Number :116

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Magnesium oxide, Not combustible. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

Section 7 - Handling and Storage

According to regulation (EU) no.1907/2006

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MAGNESIUM OXIDE

Revision : 01 Date : August 10, 2022 MSDS Number :1

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Air and moisture sensitive.

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8 - Exposure Controls, Personal Protection

8.1 Control parameters

8.2 Exposure controls

Appropriat engineering controls General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 Size M)

Splash contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 Size M)

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

According to regulation (EU) no.1907/2006

MAGNESIUM OXIDE			ARTY
Revision : 01	۵	Date : August 10, 2022	MSDS Number :116
masks. Use res standards such Control of env	otection is not pirators and c as NIOSH (U vironmental o	required. Where protection from nuisar omponents tested and approved under a JS) or CEN (EU). exposure ecautions required.	
	Section 9	- Physical and Chemical Properties	
9.1 Information on basic ph	ysical and ch	nemical properties	
Appearance	•	Form: powder	
		Colour: white	
Odour		No data available	
Odour Threshold		No data available	
рН		No data available	
Melting point/freezingpoi	nt	Melting point/range: 2,852 °C - lit.	
Initial boiling point and b	oiling range	3,600 °C at 1013 hPa	
Flash point		Not applicable	
Evaporation rate		No data available	
Flammability (solid, gas)		The product is not flammable.	
Upper/lower flammability explosive limits	/ or	No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		3.580 g/cm^3	
Water solubility		insoluble	
Partition coefficient: noct	anol/water	No data available	
Auto-ignition temperature	e	No data available	
Decomposition temperatu		No data available	
Viscosity		No data available	
Explosive properties		Not explosive	
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9.2 Other safety information

Oxidizing properties

No data available

Section 10 - Stability and Reactivity

No data available

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Exothermic reaction with: halogen-halogen compounds, acids, phosphorus pentachloride Risk of explosion with: powdered aluminium, perchlorates, powdered magnesium, sulfur

According to regulation (EU) no.1907/2006



MSDS Number :116

MAGNESIUM OXIDE Revision : 01 Date : August 10, 2022 10.4 Conditions to avoid
Air sensitive. 10.5 Incompatible materials
No data available 10.6 Hazardous decomposition products

In the event of fire: see section 5

Section 11 - Toxicological Information
11.1 Information on toxicological effects
Acute toxicity
No data available (Magnesium oxide)
Skin corrosion/irritation
No data available (Magnesium oxide)
Serious eye damage/eye irritation
No data available (Magnesium oxide)
Respiratory or skin sensitisation
No data available (Magnesium oxide)
Germ cell mutagenicity
No data available (Magnesium oxide)
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
No data available (Magnesium oxide)
Specific target organ toxicity - single exposure
No data available (Magnesium oxide)
Specific target organ toxicity - repeated exposure
No data available (Magnesium oxide)
Aspiration hazard
No data available (Magnesium oxide)
Additional Information RTECS: OM3850000
Ingestion or inhalation of a large quantity may cause a feverish reaction and leukocytosis., Diarrhea To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly
investigated.
mvesugated.

Section 12 - Ecological Information

According to regulation (EU) no.1907/2006

MAGNESIUM OXIDE

Revision : 01

Date : August 10, 2022

MSDS Number :116

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available (Magnesium oxide)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. **Contaminated packaging** Dispose of as unused product.

Section 14 - Transport Information			
14.1 UN number			
ADR/RID: -	IMDG: -	IATA: -	
14.2 UN proper shipping name			
ADR/RID: Not dangerous goods			
IMDG: Not dangerous goods			
IATA: Not dangerous goods			
14.3 Transport hazard class(es)			
ADR/RID: -	IMDG: -	IATA: -	
14.4 Packaging group			
ADR/RID: -	IMDG: -	IATA: -	
14.5 Environmental hazards			
ADR/RID: no	IMDG Marine pollutant: no	IATA: no	
14.6 Special precautions for user	-		
No data available			

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

According to regulation (EU) no.1907/2006

MAGNESIUM OXIDE

Revision : 01

Date : August 10, 2022

MSDS Number :116

Section 16 - Additional Information

National Fire Protection Association (U.S.A.): Health: 1 Flammability: 0 Reactivity: 0

Revision history :

Date	Rev	Description
Dec 14, 2016	00	-
August 10, 2022	01	thorough revision

Further information

The information above is believed to be accurate and represents the best information currently available to us. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PT. Smartlab Indonesia shall not be held liable for any damage resulting from handling or from contact with the above product.