

### Safety Data Sheet MAGNESIUM OXIDE

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### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers

Chemical Name MAGNESIUM OXIDE

CAS NO. 1309-48-4

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

- 1.MgO is used as a refractory material for crucibles. It is also used as an insulator in heat-resistant electrical cable.
- 2. MgO is one of the components in Portland cement in dry process plants.
- 3. It is a principal fireproofing ingredient in construction materials.

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

**COMPANY** POLYMER ADD (THAILAND) CO., LTD.

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Thailand

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### 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Physical and Chemical Hazards Not a hazardous substance or mixture according

to Regulation (EC) No. 1272/2008.

### 2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Label elements The product does not need to be labelled in

accordance with EC directives or respective

national laws.

2.3 Other hazards none

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Component

Chemical Name MAGNESIUM OXIDE

**CAS NO** 1309-48-4

**EC Number** 215-171-9

Molecular Formula MgO

Molecular Weight 40.31

Concentration



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#### 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

If breathed in, move person into fresh air. If not

breathing, give artificial respiration.

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

Ingestion or inhalation of a large quantity may cause a feverish reaction and leukocytosis., Diarrhoea

#### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

#### 5 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

chemical or carbon dioxide.

5.2 Special hazards arising from the substance or

mixture

Magnesium oxide

5.3 Advice for firefighters Wear self contained breathing apparatus for fire

fighting if necessary.

5.4 **Further information** no data available

#### 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

### 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling



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Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### 7.2 Information about protection against explosions and fires

No data available

### 7.3 Conditions for safe storage including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. hygroscopic Air sensitive. Air and moisture sensitive.

### 7.4 Specific end use(s)

no data available

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

### Appropriate engineering controls

General industrial hygiene practice.

### 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.

### **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.

### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 9 PHYSICAL AND CHEMICAL PROPERTIES

a)Appearance WHITE POWDER
b)Odour no data available
c)Odour Threshold no data available
d)pH (% solution in water) no data available



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	e)Melting point/freezing point	2852 °C - lit.
	f)Initial boiling point and boiling range	3600 °C at 1.013 hPa
	g)Flash point	not applicable
	h)Evaporation rate	no data available
	i)Flammability (solid or gas)	no data available
	j)Upper/lower flammability or explosive limits	no data available
	k)Vapour pressure	no data available
	I)Vapour density	no data available
	m)Relative density	3580 g/cm3
	n)Water solubility	insoluble
	o)Partition coefficient: n-octanol/water	no data available
	p)Autoignition temperature	no data available
	q)Decomposition temperature	no data available
	r)Viscosity	no data available
	s)Explosive properties	no data available
	t)Oxidizing properties	no data available
9.2	Other safety information	
10	STABILITY AND REACTIVITY	
10.1	Reactivity	no data available
10.2	Chemical stability	no data available
10.3	Possibility of hazardous reactions	no data available
10.4	Conditions to avoid	Air sensitive
10.5	Incompatible materials	Strong oxidizing agents, May react violently with:, phosphorous pentachloride, Strong acids
10.6	Hazardous decomposition products	Other decomposition products - no data available
11	TOXICOLOGICAL INFORMATION	
11.1	Information on toxicological effects	
	Acute toxicity	no data available
	Skin corrosion/irritation	no data available
	Serious eye damage/eye irritation	no data available
	Respiratory or skin sensitization	no data available



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Germ cell mutagenicity no data available

Carcinogenicity Tumorigenic: Equivocal tumorigenic agent by

RTECS criteria. Sense Organs and Special

Senses (Nose, Eye, Ear, and

Taste):Olfaction:Tumors. Lungs, Thorax, or

Respiration:Tumors.

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

Specific target organ toxicity - single

exposure

no data available

Specific target organ toxicity - repeated

exposure

no data available

Aspiration hazard no data available

**Inhalation** May be harmful if inhaled. May cause respiratory

tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May

cause skin irritation.

**Eyes** May cause eye irritation.

RTECS OM3850000

### 12 **ECOLOGICAL INFORMATION**

12.1 Toxicity no data available

### 12.2 Persistence and degradability

### **Biodegradation**

no data available

12.3 Bio accumulative potential no data available

12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB assessment no data available

12.6 Other adverse effects no data available

### 13 **DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

Product



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Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID IMDG IATA

-

14.2 UN proper shipping name

ADR/RID IMDG IATA

Not dangerous goods Not dangerous goods 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 IMDG Marine pollutant IATA

NO NO NO

14.6 Special precautions for user

15 **REGULATORY INFORMATION** 

15.1 Safety health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

16 **OTHER INFORMATION** 

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