

ETERNAL NEW MATERIAL

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 5.0 Revision Date 28.07.2012

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

1.1 Product identifiers

Product name : PH+ ALKALINE CERAMIC BALLS
Chemical Formula : MgO
Brand : ETERNAL
CAS-No. : 1309-48-4

1.2 Details of the supplier of the safety data sheet

Company : Eternal New Material Industrial Co., LTD
NO548 Beiyuan Avenue Jinan China
Telephone : +86-531-85936887
Fax : +86-531-85926887
E-mail address : bioceramic@163.com

1.3 Emergency telephone number

Emergency Phone : +8613678826976

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin irritation 1-Slight

Eye irritation 1-Slight

Respiratory sensitization 2-Moderate

Storage Color Code BROWN(General Storage)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

May cause irritation to the nasal passages, respiratory tract. Inhalation can cause a flu-like illness (metal fume fever). This 24- to 48-hour illness is characterized by chills, fever, aching muscles, dryness in the mouth and throat and headache.

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

Hazard statement(s)

H315 May cause skin irritation.
H319 May causes eye irritation.
H334 May cause metal fume fever if inhaled.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust.
P280 Wear protective gloves.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

P342 + P311 contact lenses, if present and easy to do. Continue rinsing.
 If experiencing respiratory symptoms: Call a POISON ENTER or doctor/physician.

Supplemental Hazard Statements none
 According to European Directive 67/548/EEC as amended.

R-phrases(s)
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R42/43

S-phrases(s)
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36 Wear suitable protective clothing.

2.3 Other hazards – none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : MAGNESIUM OXIDE
 Formula : MgO

Component	Concentration
MgO	85%
SiO ₂	8.9%
CAO	2.9%
FE ₂ O ₃	1.7%
AL ₂ O ₃	1.5%

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

4.2 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

5.1 Fire

Not considered to be a fire hazard.

5.2 Special hazards arising from the substance or mixture

Magnesium oxide reacts violently or ignites with interhalogens such as chlorine trifluoride (ClF₃) or bromine pentafluoride (BrF₅), and incandescently with phosphorus pentachloride (PCl₅).

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

5.5 Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Vacuuming or wet sweeping may be used to avoid dust dispersal.

6.2 Methods and materials for containment and cleaning up

Sweep up and containerize for reclamation or disposal

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 10 - 30 °C

7.3 Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses 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.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.

For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.3 Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|--|-------------------------------------|
| a) Appearance | Form: sphere balls
Colour: white |
| b) Odour | Odorless. |
| c) Odour Threshold | |
| d) pH | 7.5-9.5 |
| e) Solubility: | insoluble in water |
| f) Initial boiling point and boiling range | 3600 |

9.2 Other safety information

no data available

10. STABILITY AND REACTIVITY

10.1 Stability

Stable under ordinary conditions of use and storage. Absorbs carbon dioxide and water from air.

10.2 Hazardous Decomposition Products:

None Known.

10.3 Incompatibilities:

Acids, interhalogens, phosphorus pentachloride, and chlorine trifluoride.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral – no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

May produce an allergic reaction.

May cause metal fume fever if inhaled.

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Inhalation

May cause respiratory irritation.

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes metal fume fever.

Ingestion May be harmful if swallowed.

Skin May causes skin irritation.

Eyes May causes eye irritation.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

None toxic

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative 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**

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: 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

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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**Further information**

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. Eternal new material industrial Co., Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.