

# MATERIAL SAFETY DATA SHEET

Revised: 15/05/08

MAGNESIUM OXIDE, REAGENT Replaces: 10/07/07

## 1. PRODUCT DESCRIPTION

Product Name: Magnesium Oxide

Chemical Name: Magnesium Oxide

CAS Number: 1309-48-4

Formula: MgO

Synonyms: Calcined Magnesite; Magnesia

Company: Wuxi Zehui Chemical CO., LTD.

TEL: 86-510-82231608 82231106

Fax: 86-510-88216987

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Magnesium Oxide 95-100%

TLV and PEL units: ACGIH-TLV 10 mg/m<sup>3</sup>

OSHA-PEL 10 mg/m<sup>3</sup>

## 3. HAZARD IDENTIFICATION

Emergency Overview: Harmful if inhaled. Do not breathe dust.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

## 4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing.

Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - Do not induce vomiting. If swallowed, if conscious, give plenty of water immediately and call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

## 5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): N/A

Extinguisher Media:

Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: None identified

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None identified

## 6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid

creating dust. Sweep or scoop up and containerize for disposal.

## **7. SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling or Storing: Keep container tightly closed. Suitable for any general chemical storage area.

## **8. SPECIAL PROTECTION INFORMATION**

Respiratory Protection (Specify Type):

None needed under normal conditions of use with adequate ventilation.

NIOSH approved equipment should be worn if PELs are exceeded.

Ventilation:

Local Exhaust: yes

Mechanical(General): yes

Special: no

Other: no

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

## **9. PHYSICAL DATA**

Molecular Weight: 40.30

Melting Point: 2852C (5165F)

Boiling Point: 3600C (5165F)

Vapor Pressure: N/A

Vapor Density (Air=1): N/A

Specific Gravity (H<sub>2</sub>O=1): 3.60

Percent Volatile by Volume: 3%

Evaporation Rate (H<sub>2</sub>O=1): N/A

Solubility in Water: Negligible

Appearance and Odor: White to gray powder. Odorless.

## **10. REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: air, dusting

Incompatibility(Materials to Avoid): strong acids, bromine trifluoride

and

trichloride, phosphorous pentachloride

Hazardous Decomposition Products: None identified

Hazardous Polymerization: Will not occur

## **11. TOXICITY DATA**

Toxicity Data: None identified

Effects of Overexposure:

Acute: See section 3

Chronic: No reproductive effects cited. Not listed as causing cancer

Conditions Aggravated by Overexposure: Respiratory system disease

Target Organs: Respiratory system, lungs, eyes

Primary Route(s) of Entry: Inhalation, ingestion, eye contact, skin contact

## **12. ECOLOGICAL DATA**

EPA Waste Numbers: non regulated

### 13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

### 14. TRANSPORT INFORMATION

Chemicals, N.O.S. (Non-regulated)

### 15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

	SARA Sec. 313				
	SARA EHS	Chemicals		CERCLA	RCRA
Product or	Sec. 302	Name	Chemical	Sec. 103	Sec.
Components	TPQ	List	Category	RQ lbs.	
261.33					

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Magnesium Oxide      no                      no      no                      no                      No

### 16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Wuxi Zehui Chemical CO., LTD. Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.