



# TwinsBridge Int'l

## Material Safety Data Sheet

### MAGNESIUM OXIDE

#### SECTION 1 Product Identification

**Synonyms:** Magnesium Oxide, MgO

**CAS No.:**1309-42-8

**Molecular Weight:**40.31

**Chemical Formula:**MgO

#### SECTION 2 Hazards Identification

**Emergency Overview**---CAUTION MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT.

**SAFETY DATA (tm)Ratings** (Provided here for your convenience)

Health Rating: 1 - Slight

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT

Storage Color Code: BROWN (General Storage)

**Inhalation:**

Nuisance dust. 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.

**Ingestion:**

Magnesium oxide is slowly absorbed. Ingestion may cause rapid bowel evacuation.

**Skin Contact:**

No adverse effects expected.

**Eye Contact:**

May cause irritation.

#### SECTION 3 First Aid Measures

**Inhalation:**

Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion:**

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

**Skin Contact:** Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:**

Wash thoroughly with running water. Get medical advice if irritation develops.

## SECTION 4 Fire Fighting Measures

**Fire:**

Not considered to be a fire hazard.

**Explosion:**

Magnesium oxide reacts violently or ignites with interhalogens such as chlorine trifluoride (ClF<sub>3</sub>) or bromine pentafluoride (BrF<sub>5</sub>), and incandescently with phosphorus pentachloride (PCl<sub>5</sub>).

**Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire.

**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.

## SECTION 5 Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

## SECTION 6 Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## SECTION 7 Exposure Controls/Personal Protection

Airborne Exposure Limits:

MAGNESIUM OXIDE

- OSHA Permissible Exposure Limit (PEL) - 15 mg/m<sup>3</sup> (TWA).

- ACGIH Threshold Limit Value (TLV) -

10 mg/m<sup>3</sup> (TWA), Inhalable fraction, A4 Not classifiable as a human carcinogen.

**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.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded, a full facepiece respirator with dust/mist filter may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:**

Wear protective gloves and clean body-covering clothing.

**Eye Protection:**

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

## SECTION 8 Physical and Chemical Properties

**Appearance:** BROWN

**Odor:** Odorless.

**Solubility:** Insoluble in water.

## SECTION 9 Stability and Reactivity

**Stability :**

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

**Hazardous Decomposition Products:**

None known.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:**

Acids, interhalogens, phosphorus pentachloride, and chlorine trifluoride.

**Conditions to Avoid:**

Air, moisture, and incompatibles.

## SECTION 10 Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen. -----\Cancer Lists\-----NTP Carcinogen--- Ingredient Known Anticipated IARC Category ----- CAUSTIC CALCINED MAGNESITE(1309-42-8) No None

## SECTION 11 Ecological Information

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

## SECTION 12 Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## SECTION 13 Transport Information

Not regulated.

## SECTION 14 Regulatory Information

Chemical Weapons Convention: No

TSCA 12(b): No

CDTA: No SARA 311/312:

Acute: Yes

Chronic: No

Fire: No

Pressure: No

Reactivity: No (Pure / Solid)

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## SECTION 15 Other Information

**NFPA Ratings:** Health: 1 Flammability: 0 Reactivity: 0

**Label Hazard Warning:**

CAUTION! MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT.

**Label Precautions:**

Avoid contact with eyes, skin and clothing. Avoid breathing dust.

Use with adequate ventilation. Wash thoroughly after handling. Keep container closed.

Label First Aid: If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Product Use:** Laboratory Reagent.

**Revision Information:**

MSDS Section(s) changed since last revision of document include: 8.

## **SECTION 16 Law Information**

**Environmental Protection Agency TSCA condition :** Qualified TSCA Reserve: YES

- SARA 311th/312th Report: Acute risk Category Security Products ▪ SARA Second.313
- SARA EHS Chemical CERCLA RCRA
- Product or Two-stage Process .302 is named chemical second, 103 seconds ▪  
Component TPQ List Of Categories RQ1BS261.332

**References:**Any employers must carefully assess contain any information on the special purpose of feeding the applicability of the employer

**Date :** 5th , March, 2017