



## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/27/2017

Reviewed on 07/27/2017

### 1 Identification

- **Product Identifier**
- **Trade name:** MgO Gold
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description** No further relevant information
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Glenn Hunter & Associates  
1222 County Road #6  
Delta, Ohio  
Tel: 419.533.0925  
Fax: 419.533.0970  
Website: www.ghacorp.net
- **Emergency telephone number:** 419.533.0925 (8:00am – 5:00pm est)

### 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS08 Health hazard

Carc. 1A      H350 May cause cancer.



GHS07

Acute Tox. 4   H302 Harmful if swallowed.

- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07   GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
Magnesium Oxide  
Silica
- **Hazard statements:**  
H302 Harmful if swallowed.  
H350 May cause cancer.
- **Precautionary statements:**  
P201      Obtain special instructions before use.  
P202      Do not handle until all safety precautions have been read and understood.  
P264      Wash thoroughly after handling.  
P270      Do not eat, drink or smoke when using this product.

(Contd. on page 2)

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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/27/2017

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**Trade name: MgO Gold**

- P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P330 Rinse mouth.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.  
 7.2 % of the mixture consists of component(s) of unknown toxicity.

· **Hazard description:**

Magnesium compounds have variable toxicity. There is no evidence that magnesium produces true systemic poisoning. Particles of metallic magnesium or magnesium alloy which perforate the skin or gain entry through cuts and scratches may produce a severe local lesion characterized by the evolution of gas and acute inflammatory reaction, frequently with necrosis.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· **NFPA ratings (scale 0 - 4)**



Health = 1  
 Fire = 0  
 Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1  
 Fire = 0  
 Physical Hazard = 0

· **Hazard(s) not otherwise classified (HNO):** None known

## \* 3 Composition/Information on Ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 1309-48-4	Magnesium Oxide	⚠ Acute Tox. 4, H302	80-100%
CAS: 1317-95-9	Silica	⚠ Carc. 1A, H350; ⚠ STOT SE 3, H335	0-10%
CAS: 1344-28-1 RTECS: BD 1200000	Aluminium Oxide	⚠ STOT SE 3, H335	0-10%

· **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

## 4 First-Aid Measures

· **Description of first aid measures:**

· **General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.  
 In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately rinse with water.

(Contd. on page 3)

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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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If skin irritation occurs, consult a doctor.

• **After eye contact:**

If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

• **After swallowing:**

Do not induce vomiting without medical advice.

If swallowed and symptoms occur, consult a doctor.

• **Information for doctor:**

• **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### 5 Fire-Fighting Measures

• **Extinguishing media:**

• **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

• **Special hazards arising from the substance or mixture:**

Magnesium oxide takes up carbon dioxide and water from the air. Combines with water to form magnesium hydroxide. May have a violent reaction or ignition on contact with inter-halogens.

• **Advice for firefighters:**

• **Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

• **Personal precautions, protective equipment and emergency procedures:** Not required.

• **Environmental precautions:** Do not allow to enter sewers/surface or ground water.

• **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

• **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

• **Protective Action Criteria for Chemicals**

• **PAC-1:**

1309-48-4	Magnesium Oxide	30 mg/m3
1344-28-1	Aluminium Oxide	15 mg/m3

• **PAC-2:**

1309-48-4	Magnesium Oxide	120 mg/m3
1344-28-1	Aluminium Oxide	170 mg/m3

• **PAC-3:**

1309-48-4	Magnesium Oxide	730 mg/m3
1344-28-1	Aluminium Oxide	990 mg/m3

(Contd. on page 4)

# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/27/2017

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Trade name: MgO Gold

## 7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

## 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituent has no known exposure limits.

### 1309-48-4 Magnesium Oxide

PEL	Long-term value: 15* mg/m <sup>3</sup> fume; *total particulate
TLV	Long-term value: 10* mg/m <sup>3</sup> *as inhalable fraction

### 1317-95-9 Silica

PEL	see Quartz listing
REL	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV	TLV withdrawn

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.

(Contd. on page 5)

# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/27/2017

Reviewed on 07/27/2017

**Trade name: MgO Gold**

· **Eye protection:**



Safety glasses

## 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:**

Powder

**Color:**

Whitish

· **Odor:**

Odorless

· **Odor threshold:**

Not determined.

· **pH-value:**

Not applicable.

· **Change in condition**

**Melting point/Melting range:**

Not determined.

**Boiling point/Boiling range:**

60°C (140 °F)

· **Flash point:**

None

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

Not applicable

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not self-igniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:**

**Lower:**

Not determined.

**Upper:**

Not determined.

· **Vapor pressure:**

Not determined.

· **Density:**

**Relative density:**

Not determined.

**Vapor density:**

Not determined.

**Evaporation rate:**

Not determined.

· **Solubility in / Miscibility with:**

**Water:**

Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

**Dynamic:**

Not determined.

**Kinematic:**

Not determined.

· **Solvent content:**

**VOC content:**

0.00 %

**Solids content:**

99.2 %

· **Other information:**

No further relevant information available.

(Contd. on page 6)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/27/2017

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### 10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Heat, flame and ignition sources.
- **Incompatible materials:** Can react with strong oxidizers, inorganic acids, and halogens.
- **Hazardous decomposition products:** Magnesium hydroxide.

### 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

#### 1309-48-4 Magnesium Oxide

Oral	LD50	810 mg/kg (Mouse)
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#### 1344-28-1 Aluminium Oxide

Oral	LD50	>10,000 mg/kg (Rat)
Inhalative	LC50/4 h	>2.6 mg/l (Rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful

- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**  
Group 1 - Carcinogenic to humans  
Group 2A - Probably carcinogenic to humans  
Group 2B - Possibly carcinogenic to humans  
Group 3 - Not classifiable as to its carcinogenicity to humans  
Group 4 - Probably not carcinogenic to humans

1317-95-9	Silica	1
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- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

### 12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.

(Contd. on page 7)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/27/2017

Reviewed on 07/27/2017

**Trade name: MgO Gold**

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment:**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

- **Waste treatment methods:**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

- **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport Information

- **UN-Number:**

- **DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

- **UN proper shipping name:**

- **DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

- **Transport hazard class(es):**

- **DOT, ADR/ADN, ADN, IMDG, IATA**

- **Class:**

Non-Regulated Material

- **Packing group:**

- **DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

- **Environmental hazards:**

Not applicable.

- **Special precautions for user:**

Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

- **UN "Model Regulation":**

Non-Regulated Material

### 15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

- **SARA (Superfund Amendments and Reauthorization):**

- **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

- **Section 313 (Specific toxic chemical listings):**

1344-28-1 Aluminium Oxide

- **TSCA (Toxic Substances Control Act):**

1309-48-4 Magnesium Oxide

1344-28-1 Aluminium Oxide

- **California Proposition 65:**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

(Contd. on page 8)

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· <b>Chemicals known to cause reproductive toxicity for females:</b>		
None of the ingredients are listed.		
· <b>Chemicals known to cause reproductive toxicity for males:</b>		
None of the ingredients are listed.		
· <b>Chemicals known to cause developmental toxicity:</b>		
None of the ingredients are listed.		
· <b>New Jersey Right-to-Know List:</b>		
All ingredients are listed.		
· <b>New Jersey Special Hazardous Substance List:</b>		
1317-95-9	Silica	CA
· <b>Pennsylvania Right-to-Know List:</b>		
All ingredients are listed.		
· <b>Pennsylvania Special Hazardous Substance List:</b>		
1344-28-1	Aluminium Oxide	E
· <b>Carcinogenic categories:</b>		
· <b>EPA (Environmental Protection Agency):</b>		
None of the ingredients are listed.		
· <b>TLV (Threshold Limit Value established by ACGIH):</b>		
1309-48-4	Magnesium Oxide	A4
1317-95-9	Silica	A2
1344-28-1	Aluminium Oxide	A4
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>		
1317-95-9	Silica	

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS07 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Magnesium Oxide  
Silica

· **Hazard statements:**

H302 Harmful if swallowed.  
H350 May cause cancer.

· **Precautionary statements:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

(Contd. on page 9)



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P308+P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

None of the ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 07/27/2017 / 2

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Carc. 1A: Carcinogenicity – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **\* Data compared to the previous version altered.**

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