



**HI-VALLEY CHEMICAL**  
LABORATORY PRODUCTS

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**SAFETY DATA SHEET**

Hi Valley Chemical

**Magnesium Oxide**

**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** Magnesium Oxide  
**SDS Number:** R-122  
**Revision Date:** 9/25/2017  
**CAS Number:** 1309-48-4  
**Chemical Formula:** MgO  
**Supplier Details:** High Valley Products, Inc.  
 1134 West 850 North  
 Centerville, Utah 84014  
**Emergency:** PERS: 800-633-8253  
**Phone:** 801-295-9591  
**Email:** sales@hvchemical.com  
**Web:** www.hvchemical.com

**2 HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture**

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**  
 No GHS Classifications Indicated

**GHS Label Elements, Including Precautionary Statements**

**GHS Signal Word:** **NONE**

No GHS pictograms indicated for this product

**GHS Hazard Statements:**

No GHS hazards statements indicated

**GHS Precautionary Statements:**

No GHS precautionary statements indicated

**3 COMPOSITION/INFORMATION OF INGREDIENTS**

**Ingredients:**

Cas#	%	Chemical Name
1309-48-4	100%	Magnesium oxide (MgO)

**4 FIRST AID MEASURES**

**Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.  
**Skin Contact:** Wash with soap and water.  
**Eye Contact:** Flush eyes with water as a precaution.  
**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5 FIRE FIGHTING MEASURES**

Extinguishing media  
 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture  
No data available

Advice for firefighters  
Wear self-contained breathing apparatus for firefighting if necessary.

Further information  
No data

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## ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions:

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## HANDLING AND STORAGE

### Handling Precautions:

Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

### Storage Requirements:

Keep container tightly closed. Store in cool/dry area.

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## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment:

Magnesium oxide (MgO) cas#:(1309-48-4) [100%]

Personal protective equipment

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).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves 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. Immersion protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested: Dermatrill (Aldrich Z677272, Size M)

Splash protection: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 30 min Material tested: Dermatrill (Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and 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.

Hygiene measures: General industrial hygiene practice.

Magnesium oxide (MgO) cas#:(1309-48-4) [100%]

Components with workplace control parameters

TWA 10 mg/m3 USA. ACGIH Threshold Limit Values (TLV)  
Not classifiable as a human carcinogen

TWA 15 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z- 1  
Limits for Air Contaminants

TWA 10 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants -  
1910.1000

See Appendix D - Substances with No Established RELs

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### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White Powder.
<b>Odor:</b>	No data available
<b>Odor Threshold:</b>	No data available
<b>Solubility:</b>	No data available
<b>Spec Grav./Density:</b>	3.58
<b>Viscosity:</b>	No data available
<b>Boiling Point:</b>	3,600 °C (6,512 °F) at 1,013 hPa
<b>Freezing/Melting Pt.:</b>	2,852 °C (5,166 °F)
<b>Flash Point:</b>	No data available
<b>Partition Coefficient:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>pH:</b>	No data available
<b>Evap. Rate:</b>	No data available
<b>Auto-Ignition Temp:</b>	No data available
<b>Decomp Temp:</b>	No data available
<b>UFL/LFL:</b>	No data available

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### STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	Air sensitive
<b>Materials to Avoid:</b>	Strong Oxidizing Agents. Violent reaction may occur with phosphorus pentachloride, as well as strong acids.

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### TOXICOLOGICAL INFORMATION

Magnesium oxide (MgO) cas#:(1309-48-4) [100%]

Information on toxicological effects

Acute toxicity:

Oral LD50 no data available

Inhalation LC50

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

Carcinogenicity - Hamster - Intratracheal:

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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):  
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):  
no data available

Aspiration hazard: no data available

Potential health effects: 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.

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

Synergistic effects: no data available

Additional Information:

RTECS: OM3850000

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## ECOLOGICAL INFORMATION

Magnesium oxide (MgO) cas#:(1309-48-4) [100%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

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## DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

**14** **TRANSPORT INFORMATION**

Non DOT regulated

**15** **REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

Magnesium oxide (MgO) (1309-48-4) [100%] MASS, OSHAWAC, PA, TSCA, TXAIR

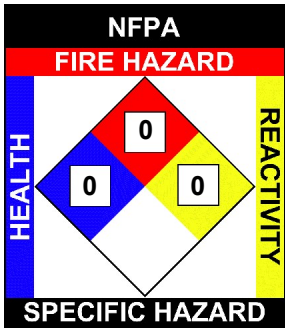
Regulatory CODE Descriptions

- MASS = MA Massachusetts Hazardous Substances List
- OSHA = OSHA Workplace Air Contaminants
- PA = PA Right-To-Know List of Hazardous Substances
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air Contaminants with Health Effects Screening Level

**16** **OTHER INFORMATION**

NFPA: Health = 0, Fire = 0, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 0, Fire = 0, Physical Hazard = 0



HMIS	
HEALTH	<input type="checkbox"/> 0
FLAMMABILITY	<input type="checkbox"/> 0
PHYSICAL HAZARD	<input type="checkbox"/> 0
PERSONAL PROTECTION	<input type="checkbox"/>

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