

1 Identification of substance

- **Product details**
- **Trade name: Cal Mag Plus**
- **Manufacturer/Supplier:**
LWB Refractories
232 East Market Street
P.O. Box 1189
York, PA 17405
- **Information department:**
Compliance Department
LWB Refractories: 717-793-5463
- **Emergency information:**
Chemtrec: 800-424-9300
LWB Refractories: 717-793-5463

2 Composition/Data on components

- **Chemical Characterization**

- **CAS No. Description**

CAS No.	Description	Percentage
16389-88-1	dolomite	25-50%
1344-95-2	Calcium Silicate	10-25%
1302-76-7	Aluminum Silicate	10-25%
7778-18-9	calcium sulphate, natural	10-25%
1309-37-1	Iron Oxide	<10%
1305-78-8	calcium oxide	<10%
1309-48-4	magnesium oxide	<10%
14808-60-7	Crystalline Silica, Quartz	<1%

- **Chemical characterization**

- **Description:**

Mixture: consisting of the following components.
Refer to product data sheet for more details.

3 Hazards identification

- **Hazard description:** Not applicable.
- **Carcinogenicity:**
The International Agency for Research on Cancer (IARC) has classified crystalline silica as a Group 1 Carcinogen "sufficient evidence of carcinogenicity in humans".
- **Information pertaining to particular dangers for man and environment:** Not applicable.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash with water and soap
- **After eye contact:** Rinse opened eye for several minutes under running water.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **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:**
Store in dry conditions.
Store in a cool place.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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· Components with limit values that require monitoring at the workplace:

1344-95-2 Calcium Silicate (10-25%)

PEL (USA)	15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	10 mg/m ³ (e)
EL (Canada)	10 mg/m ³

7778-18-9 calcium sulphate, natural (10-25%)

PEL (USA)	15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	10 I mg/m ³
EL (Canada)	10 mg/m ³

1309-37-1 Iron Oxide (<10%)

PEL (USA)	10 mg/m ³ Fume
REL (USA)	5 mg/m ³ Dust & fume, as Fe
TLV (USA)	5 R mg/m ³
EL (Canada)	Short-term value: 10** mg/m ³ Long-term value: 5* mg/m ³ *dust and fume; **fume

1305-78-8 calcium oxide (<10%)

PEL (USA)	5 mg/m ³
REL (USA)	2 mg/m ³
TLV (USA)	2 mg/m ³
EL (Canada)	2 mg/m ³

1309-48-4 magnesium oxide (<10%)

PEL (USA)	15* mg/m ³ *total particulate
TLV (USA)	10 I mg/m ³
EL (Canada)	Short-term value: 10** mg/m ³ Long-term value: 10* 3** mg/m ³ *inhalable fume; **respirable dust and fume

14808-60-7 Crystalline Silica, Quartz (<1%)

PEL (USA)	see Quartz listing
REL (USA)	0.05* mg/m ³ *respirable dust
TLV (USA)	0.025 R mg/m ³
EL (Canada)	0.025 mg/m ³ ACGIH A2; IARC 1

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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

9 Physical and chemical properties

· General Information	
Form:	Solid
Color:	Light grey
Odor:	Characteristic
· Change in condition	
Melting point/Melting range: Undetermined.	
Boiling point/Boiling range: Undetermined.	
· Flash point:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined.
· Solubility in / Miscibility with	
Water:	Slightly soluble.

10 Stability and reactivity

- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.
- **Additional information:** None

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11 Toxicological information

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

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

14 Transport information

- **Remarks:**
This product is not a hazardous material as defined in 49 U.S. CFR Part 172. It is not defined as hazardous in the IATA Regulations, Section 4.2.

15 Regulations

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

16389-88-1	dolomite
1344-95-2	Calcium Silicate
7778-18-9	calcium sulphate, natural
1309-37-1	Iron Oxide
1305-78-8	calcium oxide
1309-48-4	magnesium oxide
14808-60-7	Crystalline Silica, Quartz

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **IARC (International Agency for Research on Cancer)**

1309-37-1	Iron Oxide	3	<10%
14808-60-7	Crystalline Silica, Quartz	1	<1%

· **NTP (National Toxicology Program)**

14808-60-7	Crystalline Silica, Quartz	K	<1%
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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Recommended restriction of use** For professional use only