

Material Safety Data Sheet

Printing date 09/22/2006

Reviewed on 09/22/2006

1 Identification of substance

- **Product details**
- **Trade name: CP Lime**
- **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		
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%
1305-62-0	Calcium Hydroxide	<5%
14808-60-7	Crystalline Silica, Quartz	<1%

- **Chemical characterization**
- **Description:**
Mixture: consisting of the following components.
Refer to product data sheet for more details.
- **Additional information:** Contains agricultural liming material industrial by-product.

3 Hazards identification

- **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:**
Dust exposure from the use of this product may cause eye and skin irritation.

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· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

4 First aid measures

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Seek medical treatment in case of complaints.

· **After skin contact:**

Wash with water and soap

Immediately rinse with water.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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.

· **Additional information**

The fire fighting measures given are for packaging and surrounding materials.

6 Accidental release measures

· **Person-related safety precautions:** Not required.

· **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of dust.

· **Information about protection against explosions and fires:**

Keep respiratory protective device available.

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- **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:**
 Keep receptacle tightly sealed.
 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.

· **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

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1309-48-4 magnesium oxide (<10%)	
PEL (USA)	15* mg/m ³ *total particulate
TLV (USA)	10 l 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
1305-62-0 Calcium Hydroxide (<5%)	
PEL (USA)	15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	5 mg/m ³
TLV (USA)	5 mg/m ³
EL (Canada)	5 mg/m ³
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

• **Additional information:**

The lists that were valid during the creation were used as basis.
Provide effective ventilation or local exhaust during heat-up or dust emitting operations (e.g. cutting).

• **Personal protective equipment:**

• **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

• **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.
Suitable respiratory protective device recommended.
Whenever dust is generated

• **Protection of hands:**



Protective gloves

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· **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.

· **Eye protection:**

Safety glasses



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Solid
Color:	Light grey
Odor:	Characteristic

· **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

11 Toxicological information

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

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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.

· **Additional Information:**

This product, as received, is not considered to be a hazardous waste under U.S. Federal Hazardous Waste Regulations 40 CFR 261. Since state and local waste disposal regulations may be more restrictive, please consult these regulations prior to disposal.

The customer is advised to analyze this product after use as processing, use or contamination may make this information inappropriate, inaccurate or incomplete.

This product contains lime which will hydrate in contact with water and generate heat. Care should therefore be taken in the event of co-disposal with combustible materials.

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. No specific precaution is required for the transport of refractory products.

15 Regulations

· **Sara**

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

None of the ingredients is listed.

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

All ingredients are listed.

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1344-95-2	Calcium Silicate
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· **Proposition 65**

· **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.

· **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 product is a mixture of calcium and magnesium oxide. It is also referred to as dead burned dolomite or doloma (CAS No. 37247-91-9) and calcinated dolomite (CAS No. 83897-84-1).

- **Recommended restriction of use** For professional use only
- **Department issuing MSDS:** Compliance Department

USA