

SAFETY DATA SHEET CQL

SECTION 1. IDENTIFICATION

Product Name Construction Quicklime (CQL)

Synonyms HiCal Quicklime, Hot Lime, Lime, Pebble Lime, Lime Fines, Rice Lime, Cal 85,

Hi Cal Quicklime - Small Pebble, Hi Cal Quicklime Fines, Hot Lime,

Quicklime Fines, CQL, Pulverized Quicklime, PQL

Recommended Uses Water treatment, caustic agent, pH adjustment, acid gas absorption,

construction

Distributor Mintek Resources

3725 Pentagon Blvd.

Suite 100

Beavercreek, OH 45431 Phone: 937-431-0218

Emergency Contact VelocityEHS: (800) 255-3924 (MIS8507735)

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Physical Hazards

None

Health Hazards

Skin IrritationCategory 2Eye DamageCategory 1CarcinogenicityCategory 1ASpecific Target Organ Toxicity – Single ExposureCategory 3Specific Target Organ Toxicity – Repeated ExposureCategory 1

GHS Label Elements Signal Word Danger

Hazard Statements Causes serious eye damage.

May cause respiratory irritation. May cause cancer

through inhalation.

Causes damage to lungs through prolonged or

repeated exposure by inhalation.

Reacts violently with water, releasing heat which can

ignite combustible materials.

Precautionary Obtain special instructions before use.

Statements Do not handle until all safety precautions have been

read and understood.

Keep container tightly closed Do not breathe dust.

Wash thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Use only outdoors or in well-ventilated area.

Wear protective gloves, clothing and eye protection

Do not use water on material spills.



Pictograms



SECTION 3. COMPOSITION

Chemical name	% by weight	CAS#
Calcium Oxide	>89	1305-788
Magnesium Oxide	< 4	1309-48-4
Silica-Crystalline Quartz	0.1 - 2	14808-60-7

SECTION 4. FIRST AID MEASURES

Eyes Immediately flush eyes with generous amounts of water for at least 15

minutes. Pull back the eyelid to ensure that all lime dust has been washed out.

Seek medical attention immediately. Do not rub eyes.

Skin Wash exposed area with large amounts of water. Seek medical attention

immediately.

Ingestion Do not induce vomiting. Seek medical attention immediately. Never give

anything by mouth unless instructed to do so by medical personnel.

Inhalation Move victim to fresh air. Seek medical attention if necessary. If breathing has

stopped, give artificial respiration

Most Important Symptoms Irritation of skin, eyes, gastrointestinal tract, or respiratory tract.

Immediate Medical Attention /Special Treatment?

See first aid information above. Note to Physicians: Provide general supportive

measures and treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Fire Extinguishing Media Use dry chemical fire extinguisher. Do not use water or halogenated compounds, except that large amounts of water may be used to deluge small

quantities of this product.

Specific Hazards Arising from the Product

Inhalation, skin, or eye contact can result in serious injury. This product is not combustible or flammable. However, this product reacts violently with water, and can release heat sufficient to ignite combustible materials. This product is not considered to be an explosion hazard, although reaction with water or other incompatible materials may rupture containers. When this product is wet, it can be very slippery and can result in a slip hazard. Hazardous Combustion

Products: None.

Special Protective Equipment and Precautions for Fire Fighters

Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory

protection (SCBA) to prevent inhalation, skin, or eye contact.



SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Procedures Avoid inhalation, eye, and skin contact. Avoid generating airborne dust. Wear appropriate protective clothing as described in section 8.

Methods and Materials for Containment and Clean Up

Utilize cleanup methods that minimize generating dust: vacuum. Avoid dry sweeping. Do not use water on large spills, as this product reacts violently with water and releases heat. Residue on surfaces may be removed with copious amount of water or vinegar.

SECTION 7. HANDLING & STORAGE

Safe Handling Avoid inhalation, skin and eye contact. Avoid generating airborne dust. An eye

wash station should be readily available when this product is handled.

Safe Storage Keep in tightly closed containers. Protect containers from physical damage.

Store in a cool, dry, and well-ventilated location. Do not store near incompatible materials (see Section 10 below). Keep away from moisture. Long-term storage in aluminum containers is not recommended, as calcium

oxide may corrode aluminum over long periods of time

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	OSHA PEL (mg/m³)	ACGIH TLV (mg/m³)	Ont. Reg. 833 TWAEV (mg/m³)
Calcium Oxide	5	2	2
Magnesium Oxide	15	10	10
Silica - Crystalline Quartz	30 / (% silica +2) (total) 10 / (% silica +2) (respirable)	0.025 (respirable)	0.1

Engineering Controls Use with adequate general or local exhaust ventilation and to maintain

exposure below occupational exposure limits.

Individual Protection Measures (Personal Protective Equipment):

Specific Eye / Face Protection Safety glasses with side shields. In windy conditions, or if work activity

generates elevated airborne dust levels, dust proof or chemical goggles are

recommended. Contact lenses should not be worn.

Specific Skin Protection When there is a risk of skin contact, wear appropriate clothing and gloves to

prevent contact.

Specific Respiratory Protection If exposure limits are exceeded, an approved particulate respirator, or supplied

air respirator, appropriate for the airborne concentrations, should be used. Selection and use of the respiratory protective equipment must be in accordance with applicable regulations and good industrial hygiene practices.

Other An emergency eye wash fountain and shower are recommended.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance White or grayish white material

Odor Odorless

Odor Threshold Not Applicable

pH at 25°C 12.45



Melting Point4658°F (2570°C)Boiling Point and Range5162°F (2850°C)Flash PointNot ApplicableEvaporation RateNot ApplicableFlammabilityNot ApplicableUpper/Lower Flammability orNot Applicable

Explosive Limits

Vapor Pressure/Density

Non-Volatile
Relative Density

3.2 – 3.4

Solubility Negligible in water but reacts with water to produce Ca(OH)2 and heat

Soluble in acids, glycerin, and sugar solutions

Partition Coefficient: N-Octanol/Water

Not Applicable

Auto-Ignition TemperatureNot AvailableDecomposition TemperatureNot AvailableViscosityNot Applicable

SECTION 10. STABILITY & REACTIVITY

Reactivity Reacts violently with water to form calcium hydroxide, releasing heat.

Reacts with acids to form calcium salts, releasing heat. Reacts with carbon dioxide in air to form calcium carbonate.

See also Incompatibility below.

Chemical Stability Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions See "reactivity" above.

Conditions to Avoid Vicinity of incompatible materials.

IncompatibilityThis product should not be mixed or stored with the following

materials, due to the potential for violent reaction and release

of heat:

• water (unless in a controlled process)

acids

• reactive fluoridated compounds

• reactive brominated compounds

reactive powdered metals

· reactive phosphorous compounds

aluminum powder

organic acid anhydrides

nitro-organic compounds

• interhalogenated compounds

Hazardous Decomposition Products None



SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure & Symptoms:

Eyes Contact can cause severe irritation or burning of eyes, including permanent

damage.

Skin Contact can cause severe irritation or burning of skin, especially in the

presence of moisture.

Ingestion This product can cause severe irritation or burning of gastrointestinal tract if

swallowed.

Inhalation This product can cause severe irritation of the respiratory system.

Chronic Health EffectsThis product contains trace amounts of crystalline silica. Prolonged or

repeated inhalation of respirable crystalline silica can cause silicosis, as

serious lung disease.

Respiratory or Skin

Sensitization

This material is not known to cause sensitization

Germ Cell Mutagenicity No data available.

Carcinogenicity This product is not listed as carcinogenic by OSHA, IARC, NTP, ACGIH, or

the EU Directives. This product may contain trace amounts of crystalline silica quartz which is listed by IARC as "Carcinogenic to Humans" (Group 1) and "Known to be a Human Carcinogen" by NTP (National Toxicology Program).

Reproductive Toxicity No Data Available

Numerical Measures Crystalline Silica: Oral (rat) $LD_{50} > 22,500$ mg/kg **of Toxicity** Calcium oxide: Oral (rat) $LD_{50} > 3059$ mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Because of the elevated pH of this product, it might be expected to produce some ecotoxicity upon exposure to certain aquatic organisms and aquatic systems in high concentrations.

This material shows no bioaccumulation effect or food chain concentration toxicity.

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of contents in accordance with federal, state, provincial and local regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number UN1910

UN Proper Shipping Name Calcium Oxide

Transport Hazard class(es) When transported by air only: Hazard Class 8-Corrosive

Packing Group When transported by air only: Packing Group III

Environmental Hazards This material is alkaline and if released into water or moist soil will cause an

increase in pH

Transport in Bulk (According to Annex II of MARPOL 73/79 and the IBC Code:

Special Precautions When being transported by air, quicklime is classified in the Department of Which a User Needs Transportation (DOT) regulations as a hazardous material. (49 CFR 172.101). For aircraft transport only, Calcium Oxide is classified as Hazard Class 8-Corrosive,



UN1910, Packing Group III. For passenger aircraft, the maximum net quantity allowed per container is 25 kg. For cargo aircraft, the maximum net quantity allowed per container is 100 kg. For quantities greater than 25 kg up to and including 100 kg, the container shall be labeled with CARGO AIRCRAFT ONLY. Because express carriers (i.e., Federal Express, Airborne Express, and United Parcel Service) ship by air, quicklime presented to these carriers for shipment must be packaged, marked, and labeled in accordance with IATA requirements, and must be accompanied by the appropriate shipping documentation. Only personnel trained and certified under applicable DOT Hazardous Materials Regulations (contained in Title 49 of the Code of Federal Regulations) may prepare any quicklime product for air transport. Quicklime is not classified as a hazardous material by DOT when transported by means other than by air.

SECTION 15. REGULATORY INFORMATION

CERCLA Hazardous Substances

SARA Toxic Chemical (40 CFR 372.65)

Not Listed

SARA Section 302 Extremely Hazardous

Not Listed

Substances (40 CFR 355)

SARA 311/312 Not Listed

SARA Section 313 Toxic Chemicals Reporting

Requirements

None

Threshold Planning Quantity (TPQ) Not Listed

RCRA Hazardous Waste Classification (40 CFR 261) Not Classified

EPA Toxic Substances Control Act (TSCA) Status

California Proposition 65

All of the components of this product are listed on the TSCA

Airborne crystalline silica particulates of respirable size are known to the State of California to cause cancer.

NFPA Ratings Health: 3 Fire: 0 Reactivity: 2 ₩

HMIS Ratings Health: 3 Fire: 0 Reactivity: 2 Personal protection: E

Not Listed

Listed

OSHA Specifically Regulated Substance

(29 CFR 1910)

OSHA Air Contaminant

(29 CFR 1910.1000, Table Z-1, Z-1-A)

MSHA Not Listed

Canada DSL Listed

Canadian WHMIS Classification D2A, Materials Causing of

effects.

E, Corrosive Material

D2A, Materials Causing other toxic

T E

Canada CPR

This product has been classified in accordance with the

hazard criteria of the Controlled Products Regulation of a Canada and this SDS contains all the required information.



SECTION 16. OTHER INFORMATION

List of GHS Hazard H315: Causes skin irritation.

Statements H318: Causes serious eye damage.

H335: May cause respiratory irritation. H350: May cause cancer through inhalation.

H372: Causes damage to lungs through prolonged or repeated exposure by inhalation.

List of GHS P201: Obtain special instructions before use.

Precautionary P202: Do not handle until all safety precautions have been read and understood.

Statements P233: Keep container tightly closed.

P260: Do not breathe dust.

P264: Wash thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product.

P271: Use only outdoors or in well-ventilated area.

P280: Wear protective gloves, clothing, and eye protection

Abbreviations

CERCLA Comprehensive Environmental Response, RCRA Resource Conservation and Recovery Act

Compensation and Liability Act

SARA Superfund Amendments and IARC International Agency for Research on Cancer

Reauthorization Act

NTP National Toxicology Program

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