

## PRODUCT IDENTIFICATION

<b>Product Name:</b>	Ground Limestone
<b>Trade Name:</b>	PureCal™ 3, 3T, 60, 300, 325, 6-20, 12-40, 16-200, 30-200, 50-200, CalRite, Cagecal
<b>Product Codes:</b>	Purecal
<b>Manufacturer's Name:</b>	Cerne Calcium Company
<b>Street Address:</b>	2123 200th Street
<b>City/State/Zip code:</b>	Fort Dodge, IA 50501 USA
<b>Telephone Company:</b>	(515) 955.8549

## COMPOSITION / INFORMATION ON INGREDIENTS

<b>Common Chemical Name:</b>	Limestone
<b>Synonyms:</b>	Calcium Carbonate; Whiting
<b>CAS Number:</b>	1317-65-3

Limestone is a natural occurring mineral substance consisting primarily of calcium carbonate with lesser amounts of dolomite together with many other ingredients in small but varying amounts.

Compound	CAS Number	Typical Concentration, %
Calcium Carbonate	471-34-1	94-98
Magnesium Carbonate	546-93-0	1.2-5.8
Crystalline Silica	14808-60-7	0.2-0.8

In addition, surface treated products, designated by the letter "T", contain 0.75 to 1/5% stearic acid (CAS #57-11-4.)

Additives or ingredients which may be present, and which might be of industrial hygiene interest:

**Silica:** Product contains greater than 0.1% total crystalline silica. Inhalable crystalline silica fraction unknown.

The International Agency for Research on Cancer (IARC) believes there is sufficient evidence that crystalline silica is carcinogenic to humans if it is inhaled in the form of quartz or cristobalite from occupational sources. IARC notes that carcinogenicity was not detected in all industrial circumstances studied and that the carcinogenicity of crystalline silica may be dependent on inherent characteristics of the silica, or on external factors affecting its biological activity, or on the distribution of its polymorphs (quartz, cristobalite.)

Naturally occurring minerals invariably contain trace quantities of materials cited in the California Safe Drinking and Toxic Enforcement Act. In addition to crystalline silica, limestones frequently contain trace quantities of lead and arsenic. Test results for these products show that lead and arsenic, if present, are at concentrations of less than 5 PPM each.

## HAZARDS IDENTIFICATION

Route of Exposure	Hazardous Determination	Basis for Determination
Skin Contact	Non-hazardous	Historical
Skin Absorption	Non-hazardous	Historical
Eye Contact	Nuisance Dust	Historical
Ingestion	Non-hazardous	Historical
Inhalation		
Limestone		ACGIH TLV: Total dust 10.0 mg/m <sup>3</sup> OSHA PEL: Total dust 15 mg/m <sup>3</sup> TWA Respirable dust 5 mg/m <sup>3</sup> TWA

**Source:** OSHA 29 CFR 19190.1000 Table Z-1-A

**Source:** ACGIH\* TLV'S Threshold Limit Values for Chemical Substances

**Source:** To the best of our knowledge, no studies have been done on eye, skin, or ingestion hazards.

*\*ACGIH classifies limestone as a nuisance dust when toxic impurities are not present (e.g. quartz less than 1%).*

## FIRST AID MEASURES

**Eye and Skin:** No special precautions; flush with water.

**Inhalation & Ingestion:** No special precautions.

## FIRE-FIGHTING MEASURES

**Flash Point:** None. Autoignition Temperature: None.

**Flammable Limits in air:** N.A.

Limestone is not a fire hazard or an explosive hazard in either the powder or slurry form. Special fire fighting procedures or extinguishing media are not applicable.

## ACCIDENTAL RELEASE MEASURES

Procedure when material is released or spilled: Accidental releases can be cleaned up by sweeping, vacuuming, or flushing with water.

Neutralizing Chemicals: None required.

## HANDLING & STORAGE

**No special precautions to be taken in handling and storing.**

**Ventilation:** Use sufficient general area ventilation. Local exhaust may be necessary where Threshold Limit Values (TLVs) are exceeded or dusty conditions exist.