



MATERIAL SAFETY DATA SHEET



PRODUCT NAME: Ground Limestone
PRODUCT CODES: HUBERCARB® S 3, S 4, S 6, S200, S 325
MANUFACTURER'S NAME: J.M. Huber Corporation
Engineered Materials Division
STREET ADDRESS: 5427 Ohio Avenue South, P. O. Box 80786
CITY/STATE/POSTAL CODE/COUNTRY: Seattle, Washington 98134 USA
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COMMON CHEMICAL NAME: Limestone

SYNONYMS: Calcium Carbonate; Whiting

CAS NUMBER: 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.

<u>COMPOUND</u>	<u>CAS NUMBER</u>	<u>TYPICAL CONCENTRATION, %</u>
Calcium Carbonate	471-34-1	95-98
Magnesium Carbonate	546-93-0	1-2
Crystalline Silica	14808-80-7	0.7

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.

HAZARD IDENTIFICATION

<u>ROUTE OF EXPOSURE</u>	<u>HAZARD DETERMINATION</u>	<u>BASIS FOR DETERMINATION</u>
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/m³
OSHA PEL: Total dust 15 mg/m³ TWA
Respirable dust 5 mg/m³ TWA

SOURCE: OSHA 29 CFR 1910.1000 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 AND INGESTION: No special precautions.

FIRE FIGHTING AND MEASURES

FLASH POINT: None.

AUTO IGNITION 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 AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: No special precautions.

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

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CONDITIONS CONTRIBUTING TO INSTABILITY: Reacts with acids to liberate CO₂.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

EFFECTS OF ACUTE OVEREXPOSURE: No acute effects. Brief exposures to nuisance dust concentrations above the 8-hour recommended Threshold Limit Value (TLV) should pose no acute health problems.

EFFECTS OF CHRONIC OVEREXPOSURE: As is true with any mineral product, long term overexposure to high concentrations of this dust without the use of a dust mask may produce X-Ray evidence of dust in the lungs. Continued long term overexposure may affect respiratory function in some individuals.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Unknown.

Limestone is not classified as a "toxic pollutant" or a "hazardous substance" under Sections 307 and 311 of the Clean Water Act.

WASTE DISPOSAL METHOD: NOT a hazardous waste under RCRA Section 3001. Use normal solid waste disposal procedures which are in compliance with Federal, State, and Local Regulations.

DOT: NOT RESTRICTED

INTERNATIONAL REGULATIONS

UN number: None.

Inland waterways: None.

Air transport (IDAO/IATA): None.

EINECS: 215-279-6

Land transport: None.

Sea transport (IMDG code): None.

Harmonized Tariff Code: 2836.50.00

STATE

Consult Local and State Hazard Communication Regulations.

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FEDERAL

FDA: 21 CFR 175.105; 21 CFR 175.300; 21 CFR 176.170; 21 CFR 176.180; 21 CFR 177.1210;
21 CFR 178.3297; 40 CFR 180.1001:(c) and (e).

USDA: None.

CPSC: None.

TSCA: Is this product and all its ingredients certified for inclusion in the Toxic Substances Control Act Inventory of Chemical Substances? **Yes.**

OSHA: Have ingredients in concentrations above 0.1% been:

1. Listed in the NTP Annual Report on Carcinogens? **Yes, silica.**
2. Found to be a potential carcinogen by OSHA or IARC? **Yes, silica.**

SARA 304:	NO	SARA 311:	YES**	SARA 312:	POSSIBLY
SARA 313:	NO	NJRTK:	YES	CAPROP65:	YES
DSL:	YES	EINECS:	YES	RCRA:	NO

ADDITIONAL INFORMATION: **SARA311: LISTED. ACGIH TLV ASSIGNED.

WARNING: This product contains a chemical known to the State of California to cause cancer.
-- Trace amounts of lead, cadmium, respirable crystalline silica. --



The information contained in this Material Safety Data Sheet is believed to be reliable. No guarantee is implied or expressed regarding the accuracy of this information or the use of the product since the conditions for use are beyond our control. Nothing contained herein should be construed as a recommendation to use this product in conflict with Federal or state regulations or existing patents covering any material or its use.

FOR MORE INFORMATION CONTACT:	Huber Engineered Materials
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