

# Material Safety Data Sheet


**MPSI**

 Mineral and Pigment  
Solutions, Inc.

## Calcium Carbonate - Ground Limestone

C.A.S. Number: 1317-65-3 / MSDS C.A.S. Code: 0200

**(WHITING)**
**PRODUCT/MATERIAL: GROUND LIMESTONE**
**MANUFACTURER/DISTRIBUTOR:** MINERAL AND PIGMENT SOLUTIONS, INC.  
**ADDRESS:** 1000 COOLIDGE STREET  
 SOUTH PLAINFIELD, N.J. 07080

**EMERGENCY TELEPHONE NUMBER:** (908) 561-6100

**SECTION I - PRODUCT IDENTIFICATION:**
**CHEMICAL FAMILY:** METAL CARBONATE  
**FORMULA:** CaCO<sub>3</sub>  
**CAS NUMBER:** 1317-65-3  
**HMIS:** HEALTH 0\*  
 FLAMMABILITY 0  
 REACTIVITY 0

**\*CAUTION:** PROLONGED BREATHING OF EXCESSIVE DUST MAY AFFECT LUNG FUNCTION. USE NIOSH APPROVED DUST RESPIRATOR IN DUSTY AREAS.

**SECTION II - INGREDIENTS:**
**MATERIAL:** LIMESTONE **CAS NO:** 1317-65-3

LIMESTONE IS A NATURAL OCCURRING MINERAL SUBSTANCE CONSISTING PRIMARILY OF CALCIUM CARBONATE WITH LESSER AMOUNTS OF MAGNESIUM CARBONATE TOGETHER WITH MANY OTHER INGREDIENTS PRESENT IN SMALL BUT VARYING AMOUNTS. THE COMPOUNDS PRESENT AT CONCENTRATIONS OF 0.1.% OR GREATER ARE:

COMPOUND	CAS NUMBER	TYPICAL CONCENTRATION
<b>CALCIUM CARBONATE:</b>	471-34-1	MINIMUM 95%
<b>MAGNESIUM CARBONATE:</b>	546-93-0	MAXIMUM 2%
<b>CRYSTALLINE SILICA:</b>	14808-60-7	MAXIMUM 1%

IN ADDITION, SURFACE TREATED PRODUCTS CONTAIN 0.75 TO 1.5.% STEARIC ACID (CAS NO. 57-11-4) AND

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OTHER PRODUCTS MAY CONTAIN 0.75% OF SODIUM POLYACRYLATE AS A DISPERSANT (CAS NUMBER 9003-04-7).

NATURAL 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 SHOW THESE SUBSTANCES, IF PRESENT, ARE AT CONCENTRATIONS OF LESS THAN 5 PPM.

LIMESTONE CONTAINS CRYSTALLINE SILICA AT LEVELS ABOVE 0.1% BUT LESS THAN 1%. THESE LEVELS ARE "TYPICAL" AND MAY CHANGE SLIGHTLY WITH DIFFERENT LOTS. IARC HAS DETERMINED SILICA TO BE A CLASS 1 CARCINOGEN, AND NTP HAS CLASSIFIED CRYSTALLINE SILICA AS A SUBSTANCE REASONABLY ANTICIPATED TO BE A CARCINOGEN. IF SILICA LEVELS EXCEED 1%, THE TLV VALUE IS 0.1 MG OF RESPIRABLE SILICA PER CUBIC METER. USE DUST MASK APPROVED BY NIOSM FOR MINERAL DUST IF THIS RESPIRABLE SILICA LEVEL IS EXCEEDED.

### SECTION III - HEALTH HAZARD DATA:

ROUTE OF EXPOSURE	HAZARD DETERMINATION	BASIS FOR DETERMINATION
INHALATION:	LIMESTONE	ACGIH TLY: 10 MG/CU.M. (TOTAL DUST) OSHA PEL: 15 MG/CU.M. TWA (TOTAL DUST) 5 MG/CU.M. TWA (RESPIRABLE DUST)
	SILICA, QUARTZ	ACGIH TLY: 0.1 MG/CU.M. RESPIRABLE OSHA PEL: 0.1 MG/CU.M. RESPIRABLE TWA

**SOURCE:** OSHA 29CFR1910.1000 TABLE Z-1-A; ACGIH TLV'S THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES.

ACGIH CLASSIFIES LIMESTONE AS A NUISANCE DUST WHEN TOXIC IMPURITIES ARE NOT PRESENT (eg. QUARTZ LESS THAN 1%)

**SKIN CONTACT:** NON-HAZARDOUS (HISTORICAL).

**SKIN ABSORPTION:** NON-HAZARDOUS (HISTORICAL).

**EYE CONTACT:** NUISANCE DUST (HISTORICAL).

**INGESTION:** NON-HAZARDOUS (HISTORICAL).

**SOURCE:** TO THE BEST OF OUR KNOWLEDGE, NO STUDIES HAVE BEEN DONE ON EYE, SKIN, OR INGESTION HAZARDS.

**EFFECTS OF ACUTE OVEREXPOSURE:** NO ACUTE EFFECTS. BRIEF EXPOSURE TO NUISANCE DUST CONCENTRATIONS ABOVE THE EIGHT 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 AGGREGATED BY EXPOSURE:** UNKNOWN

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### EMERGENCY AND FIRST AID PROCEDURES:

**EYES AND SKIN:** NO SPECIAL PRECAUTIONS; FLUSH WITH WATER.  
**INHALATION AND INGESTION:** NO SPECIAL PRECAUTIONS.

### SECTION IV - PHYSICAL DATA:

**APPEARANCE AND ODOR:** WHITE POWDER WITH NEGLIGIBLE ODOR.  
**PERCENT VOLATILES BY VOLUME:** N/A  
**SPECIFIC GRAVITY:** 2.71  
**MELTING POINT:** DECOMPOSES AT 1799 °F  
**pH:** 8.5-9.5 AT 10% SOLIDS  
**BOILING POINT:** N/A  
**VAPOR PRESSURE:** N/A  
**EVAPORATION RATE:** N/A  
**VAPOR DENSITY:** N/A  
**SOLUBILITY IN WATER:** NEGLIGIBLE

### SECTION V - FIRE AND EXPLOSION HAZARD:

**FLASH POINT:** NONE                      **AUTOIGNITION TEMPERATURE:** NONE  
**FLAMMABILITY LIMITS IN AIR:** N/A

LIMESTONE IS NOT A FIRE HAZARD OR AN EXPLOSION HAZARD IN EITHER THE POWDER OR SLURRY FORM. SPECIAL FIRE FIGHTING PROCEDURES OR EXTINGUISHING MEDIA ARE NOT APPLICABLE.

### SECTION VI - REACTIVITY DATA:

**STABILITY:** REACTS WITH ACIDS TO LIBERATE CO<sub>2</sub>  
**HAZARDOUS POLYMERIZATION:** NONE  
**HAZARDOUS DECOMPOSITION PRODUCTS:** NONE

### SECTION VII - DISPOSAL, SPILL OR LEAK PROCEDURES:

**WASTE DISPOSAL METHOD:** LIMESTONE IS NOT CLASSIFIED AS A HAZARDOUS WASTE UNDER RCRA SECTION 3001. USE NORMAL WASTE DISPOSAL PROCEDURES WHICH ARE IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

**SPILL OR LEAK PROCEDURES:** LIMESTONE IS NOT CLASSIFIED AS A "TOXIC POLLUTANT" OR A "HAZARDOUS SUBSTANCE" UNDER SECTIONS 307 AND 311 OF THE CLEAN WATER ACT. ACCIDENTAL RELEASES CAN BE CLEANED UP BY SWEEPING, VACUUMING, OR FLUSHING WITH WATER.

**NEUTRALIZING CHEMICALS:** NONE REQUIRED.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION:**

**VENTILATION:** USE SUFFICIENT GENERAL AREA VENTILATION. LOCAL EXHAUST MAY BE NECESSARY WHERE THRESHOLD LIMIT VALUES ARE EXCEEDED OR DUSTY CONDITIONS EXIST.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE:** NON-ESSENTIAL, BUT DESIRABLE.

**GLOVES:** NON-ESSENTIAL.

**OTHER:** NONE

**RESPIRATORY PROTECTION:** FOR DUSTY CONDITIONS USE A DUST MASK APPROVED BY NIOSH.

**SECTION IX - SPECIAL PRECAUTIONS:**

CONTAINS SMALL AMOUNTS OF CRYSTALLINE SILICA. SILICA IS CLASSIFIED AS A CLASS 1 CARCINOGEN BY IARC. LIMESTONE IS NOT CONSIDERED TO BE A CARCINOGEN.

**SECTION X - REGULATORY:**

**TSCA STATUS:** THIS MATERIAL IS INCLUDED IN THE EPA'S TSCA INVENTORY.

**CANADIAN DSL:** THIS MATERIAL IS CONSIDERED TO BE A NATURALLY OCCURRING SUBSTANCE AS DEFINED IN THE CANADIAN ENVIRONMENTAL PROTECTION ACT AND IS THEREFORE CONSIDERED TO BE INCLUDED ON THE CANADIAN OSL.

**CERCLA, 40CFR117, 302:** NOTIFICATION OF SPILLS OF THIS MATERIAL IS NOT REQUIRED.

**RCRA, 40CFR261:** DOES NOT MEET THE CRITERIA FOR A HAZARDOUS WASTE AS DEFINED BY THE ACT.

**SARA: SECTION 302:** THIS MATERIAL DOES NOT CONTAIN INGREDIENTS CLASSIFIED AS EXTREMELY HAZARDOUS SUBSTANCES.

**SECTION 311 AND 312:** THIS MATERIAL DOES HAVE AN ACGIH TLV ASSIGNED.

**SECTION 313:** THIS MATERIAL DOES NOT CONTAIN TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF 40CFR372.

**CALIFORNIA PROPOSITION 65:** THIS MATERIAL CONTAINS TRACE AMOUNTS OF LEAD, CADMIUM, AND RESPIRABLE SILICA AS A RESULT OF THEIR NATURAL OCCURRENCE IN LIMESTONE.

**FDA:** THESE MATERIALS ARE SUITABLE FOR USE IN APPLICATIONS DESCRIBED IN TITLE 21 CFR 175.105, 175.300, 176.170, 176.180, 177.1210, AND 178.3297.

**SECTION XI - OTHER INFORMATION:**

"Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Mineral and Pigment Solutions, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their

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