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#37080

MATERIAL SAFETY DATA SHEET
PRODUCT GROUP: GROUND LIMESTONE, SEATTLE PRODUCTS

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I. PRODUCT IDENTIFICATION

MANUFACTURERS NAME: J. M. HUBER CORPORATION
ADDRESS: CALCIUM CARBONATE DIVISION
 5427 OHIO AVENUE SOUTH, PO BOX 80786
 SEATTLE, WA 98134
TELEPHONE NO.: 217/224-1100
EMERGENCY PHONE NO.: CHEMTREC - 1-800-424-9300
TRADE NAME/LABEL NAME: HUBERCARB S 3, S 4, S 6, S 200, S 325

CHEMICAL NAME/SYNONYMS: LIMESTONE; WHITING; CALCIUM CARBONATE
SHIPPING NAME: DOT - NOT RESTRICTED
IATA: NOT RESTRICTED

II. HAZARDOUS 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 NO.	TYPICAL CONCENTRATION, %
Calcium Carbonate	471-34-1	95-98
Magnesium Carbonate	546-93-0	1-2
Crystalline Silica	14808-60-7	0.7

Natural minerals invariably contain trace quantities of materials cited in the California Safe Drinking and Toxic Enforcement Act. In addition to crystalline silica, the earth's most common mineral, limestones frequently contain trace quantities of Lead and Arsenic. Test results show these substances, if present, are at concentrations of less than 5 PPM.

Respirable Silica (quartz) is not expected to be present in the dust from this product at levels exceeding 1%. If silica levels above 1% are present, the TLV value is 0.1 mg of respirable silica per cu. meter. Use dust mask approved by NIOSH for mineral dust if this respirable silica level is exceeded.



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III. HEALTH HAZARD DATA

ROUTE OF EXPOSURE	HAZARD DETERMINATION	BASIS FOR DETERMINATION
INHALATION	Limestone	ACGIH TLV: Total dust 10.0 mg/m ³ OSHA PEL: Total dust 15 mg/m ³ TWA Respirable dust 5 mb/m ³ TWA
	Silica, quartz	ACGIH TLV: 0.1 mg/m ³ respirable OSHA PEL: 0.1 mg/m ³ respirable TWA

SOURCE: OSHA 29 CFR 1910.1000 Table Z-1-A
 SOURCE: ACGIH TLV's Threshold Limit Values for Chemical Substances

*ACGIH classifies limestone as a nuisance dust when toxic impurities are not present (e.g. 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 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.

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: No special precautions; flush with water.
INHALATION AND INGESTION: No special precautions.

IV. PHYSICAL DATA

N.A. - NOT APPLICABLE

APPEARANCE AND ODOR:	White powder with negligible odor	BOILING POINT:	N.A.
% VOLATILES BY VOL:	N.A.	VAPOR PRESSURE:	N.A.
SPECIFIC GRAVITY:	(WATER = 1.0): 2.71	EVAPORATION RATE	N.A.
MELTING POINT:	Decomposes @ 1799 Degrees F	(BUTYL ACETATE = 1):	N.A.
pH:	8.5-9.5 at 10% solids	VAPOR DENSITY:	N.A.
		SOLUBILITY IN WATER:	NEGLEGIBLE

V. FIRE AND EXPLOSION DATA

FLASH POINT: NONE

AUTOIGNITION TEMP.: 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.

VI. REACTIVITY DATACONDITIONS CONTRIBUTING TO STABILITY: Reacts with acids to liberate CO₂.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None
HAZARDOUS DECOMPOSITION PRODUCTS: None

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

VIII. SPECIAL PROTECTION INFORMATION**VENTILATION**

Use sufficient general area ventilation. Local exhaust may be necessary where Threshold Limit Values (TLV's) 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.

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IX. SPECIAL PRECAUTIONS**PRECAUTIONARY STATEMENTS/LABELING:****O.S.H.A./H.M.I.S. LABEL**

HEALTH	= 1*	SLIGHT RISK
FLAMMABILITY	= 0	NONE
MAX. PERSONAL PROTECTION	= E	DUST MASK
REACTIVITY	= 0	NONE

*May affect lung function, avoid exposures to high levels of dust.

Contains small amounts of crystalline silica. Limited evidence suggests that pure silica is a human carcinogen. Limestone is not considered to be a carcinogen.

For additional information on the HMIS Rating System, contact:

The National Paint and Coatings Association
1500 Rhode Island Avenue, N.W.
Washington, DC 20005

ADDITIONAL REGULATORY CONCERNS:**FEDERAL:**

USDA: None CPSC: None OTHER: None SARA 313: None RCRA TCLP: 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? No.
2. Found to be a potential carcinogen by OSHA or IARC?

IARC found limited evidence for human carcinogenicity of the crystalline silica ingredient only. Limited evidence means a "causal" interpretation is credible, but alternative explanations such as chance, bias, or confounding effects could not be adequately excluded.

HUBERCARB S products typically contain less than 0.7% by weight of crystalline silica. At the present level of expertise of medical research, there is no direct evidence that crystalline silica at these levels in limestones constitutes a health risk.

STATE: Consult Local and State Hazard Communication Regulations.

FOR MORE INFORMATION CONTACT: J. M. Huber Corporation-Calcium Carbonate Division
PHONE: (217) 224-1100

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