MATERIAL SAFETY DATA SHEET
PRODUCT GROUP: GROUND LIMESTONE, "W" PRODUCTS
OPTIFIL PRODUCTS

I. PRODUCT IDENTIFICATION

MANUFACTURERS NAME:	J.M. HUBER CORPORATION HUBER ENGINEERED MINERALS DIVISION
ADDRESS:	3150 GARDNER EXPRESSWAY POST OFFICE BOX 4005 QUINCY, ILLINOIS 62305
TELEPHONE NUMBER:	(217) 224-1100
EMERGENCY TELEPHONE:	CHEMTREC - (800) 424-9300
TRADE NAME/LABEL NAME:	HUBERCARB W2, W2T, W3, W4, W5, W325, OPTIFIL, OPTIFIL T, W3NT, OPTIFIL 100
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	99.6
Magnesium Carbonate	546-93-0	0.3

In addition, surface treated products, designated by the letter "T", contain 0.75 to 1.5% stearic acid (CAS #57-11-4).

Natural minerals invariably contain trace quantities of materials cited in the California Safe Drinking and Toxic Enforcement Act. Limestones frequently contain trace quantities of Lead and Arsenic. Test results show these substances, if present, are at concentrations of less than 5PPM.

Revised Date: march 1, 1996

MARKETED BY

HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Seiberling Street · Akron, Ohio 44305

III. HEALTH HAZARD DATA

ROUTE OF EXPOSURE	HAZARD DETERMINATION	BASIS FOR DETERMINATION
Inhalation	Nuisance Dust*	OSHA PEL=15 mg/cubic meter(Total Dust) OSHA PEL=5mg/cubic meter (Respir.Dust) ACGIH TLV=10mg/cubic meter(Total Dust)

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 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 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 VOLUME:	N.A.	VAPOR PRESSURE:	N.A.
SPECIFIC GRAVITY:	(Water = 1.0): 2.71	EVAPORATION RATE:	
MELTING POINT:	Decomposes @ 1799 Degrees F	(BUTYL ACETATE = 1):	N.A.
		VAPOR DENSITY:	N.A.
pH:	8.5-9.5 at 10% solids	SOLUBILITY IN WATER:	Negligible

V. FIRE AND EXPLOSION DATA

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.

VI. REACTIVITY DATA

CONDITIONS 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.

IX. SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS/LABELING:

O.S.H.A./H.M.I.S. LABEL

HEALTH	=	0*	SLIGHT RISK
FLAMMABILITY	=	0	NONE
MAXIMUM PERSONAL PROTECTION	=	A	DUST MASK
REACTIVITY	=	0	NONE

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

Limestone has been designated a nuisance dust. Prolonged inhalation of excessive dust may present an inhalation hazard. Refer to Material Safety Data Sheet.

For additional information on the HMIS Rating System, contact:

The National Paint and Coatings Association
1500 Rhode Island Avenue, Northwest
Washington, D.C. 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? No

STATE:

Consult Local and State Hazard Communication Regulations.

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