HUBER ENGINEERED MINERALS

J.M. Huber Corporation

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J. M. HUBER

MATERIAL SAFETY DATA SHEET

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Doc#: 930803-0243

SECTION I: IDENTIFICATION

Group Name : CTK08
: SULFUR-FUNCTIONAL TREATED WRENS WW
Trade Name : NUCAP 290®

Chemical Name (Synonyms) : CHEMICALLY TREATED HYDRATED ALUMINUM SILICATE (KAOLIN)
: (CHEMICALLY TREATED KAOLIN CLAY; CHEMICALLY TREATED CHINA CLAY)

Manufacturer : J. M. Huber Corporation
Clay Division
Address : One Huber Road
City, State, Zip: Macon, GA 31298
Telephone Number: 912-745-4751

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENTS:	CAS #	Min	Max
KAOLIN	1332-58-7	96.50 %	98.60 %
TITANIUM DIOXIDE	13463-67-7	0.90 %	2.50 %

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Kaolin is a naturally occurring mineral substance containing many ingredients in small but varying amounts.

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Additional Information:
Above ingredient percentages are representative of bulk samples.

Date MSDS Created: 20-NOV-91
Date Last Revised: 03-AUG-93
For Routine Inquiries Contact:
Technical Services Dept. ; Tech Service Coordinator ; 912-745-4751

Prepared by: JAY HUTTO, ENVIR.MGR ; Phone: 912-745-4751

7/3/93

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

SECTION II.A: OTHER INGREDIENTS

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

**CRYSTALLINE SILICA (QUARTZ)--Contains less than 0.1%.

**Sulfur-functional Silane: The exact chemical identity and concentration of this treatment additive are confidential. The pure additive is moderately toxic by ingestion and skin absorption. Eye or skin contact causes irritation.

SECTION III: PHYSICAL CHARACTERISTICS

PHYSICAL DATA:	Qty	Units	Text
Specific Gravity:	2.61		
Melting Point:	1700	DEGC	
pH Concentration:			5.0 - 6.5 at 28% solids.
Solubility Data:			Negligible.

Appearance and Odor:
White powder with negligible odor.

SECTION IV: HEALTH HAZARD DATA

Tolerance Limits:

Ingredients	Agency	Test	Concentration

*** No Tolerance Limits Specified ***

Skin Contact- Non-hazardous
Skin Absorpt- Non-hazardous
Eye- Nuisance Dust
Ingestion- Non-hazardous
Inhalation-
(For Total dust with UNDER 1.0% Total quartz):
Kaolin: TLV = 10.0 mg/cu meter of Total dust. (ACGIH)
PEL = See 29 CFR 1910.1000
Tables Z-1-A and Z-3. (OSHA)

(For Total dust with OVER 1.0% quartz):
Respirable quartz not to exceed TLV of 0.1 mg/cu meter in the respirable dust.
PEL = See 29 CFR 1910.1000
Tables Z-1-A and Z-3. (OSHA)

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SOURCE: ACGIH TLV's- Threshold Limit Values for Chem. Substances.

EFFECTS OF EXPOSURE:

Acute:
No acute effects. Brief exposures above the 8-hr Threshold Limit Value (TLV) should pose no acute health risks.

Chronic:
As is true with any kaolin clay, 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.

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NOTE: The above hazard determination is based on UNTREATED kaolin dust.

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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Unknown.

EMERGENCY AND FIRST AID PROCEDURES:
Skin- No special precautions; flush with water.
Eye- No special precautions; flush with water.
Ingestion- No special precautions.
Inhalation- No special precautions.

SECTION V: FIRE & EXPLOSION HAZARDS

(Flammability Classification)

Unusual Fire and Explosion Hazards:
Not a fire or explosive hazard in either the powder or slurry form.

Special Firefighting Procedures:
None.

SECTION VI: REACTIVITY DATA

Conditions to Avoid:
NONE

Hazardous Polymerization: N/A
Conditions to Avoid:
NONE

Hazardous Decomposition: N/A
Conditions to Avoid:
NONE

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Aquatic Toxicity:
(96 hour TLm)
Aluminum III Silicate (2:1) -- over 1,000 ppm (insignificant hazard).
Hydrated Aluminum Silicate (Kaolin) -- Not listed.
SOURCE: Registry of Toxic Effects of Chemicals (July, 1980).

Procedure when Material is Released or Spilled:
NOT a "toxic pollutant" or a "hazardous substance" under Sections 307 and 311 of the Clean Water Act. Clean spills by sweeping, vacuuming or flushing with water.

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.

Precautions to be Taken in Handling and Storing:
No special precautions.

Additional Information:
NEUTRALIZING CHEMICALS: None Required.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Ventilation:
For dusty conditions use sufficient area ventilation.
Use local exhaust if Threshold Limit Values (TLV's) are exceeded.

Personal Protective Equipment:
EYE: Non-essential, but desirable.
GLOVES: Non-essential.
OTHER: None.
RESPIRATORY PROTECTION: For dusty conditions wear a dust mask approved by NIOSH.

SECTION IX: SPECIAL PRECAUTIONS

Precautionary Statements/Labeling:
Accumulations on walking surfaces are very slippery when wet.

OSHA / HMIS LABEL

HEALTH	0	*	No Acute Effects.
FLAMMABILITY	0		None.
REACTIVITY	0		None.
MAX PERSONAL PROTECTION	E	*	Dust Mask.

KAOLIN	CAS# 1332-58-7	96.50 %	98.60 %
TITANIUM DIOXIDE	CAS# 13463-67-7	0.90 %	2.50 %

****
*CAUTION: PROLONGED BREATHING OF EXCESSIVE DUST MAY AFFECT LUNG FUNCTION. USE DUST MASK IN DUSTY AREAS.
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J.M. HUBER CORP. - CLAY DIVISION - MACON, GA 31298 (912) 745-4751

HMIS CODE: 0=Minimal ; 1=Slight ; 2=Moderate ; 3=Serious ; 4=Severe

Additional Regulatory Concerns:
CPSC: None.
USDA: None.
DOT : IATA: Not restricted.
FDA : No approvals known.

OSHA
Has this product or any of its ingredients in concentrations above 0.1% been reported as a carcinogen in:
NTP? NO IARC Mono? NO OSHA Reg? NO

TSCA
Is this product, or all of its ingredients certified for inclusion on the Toxic Substances Control Act Inventory of Chemical Substances? YES

SARA304: No.	SARA311: Yes.**	SARA312 : Possibly
SARA313: No.	NJRTK : Yes.	CAPROP65: No.
CANDSL : Yes.	ECOIN : Yes.	ACOIN : Yes.
RCRA : No.		

STATE : Consult Local and State Hazard Communication Regulations.
Additional Information:
** Sara311: Listed. ACGIH TLV assigned.