



**ENGINEERED
MINERALS**

J.M. Huber Corporation

One Huber Road
Macon, GA 31298
912 745-4751
Fax 912 745-1116 - Marketing
Fax 912 741-1817 - R & D/Tech Services
Fax 912 742-8613 - All Others
Telex 544438

J. M. HUBER

Page 1 of 5

MATERIAL SAFETY DATA SHEET

Information contained in this form is proprietary and is furnished solely for the use of our customers. The information 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 existing patents covering any material or its use.

Doc#: 930804-0253

SECTION I: IDENTIFICATION

Group Name : CTK09
Trade Name : SULFUR-FUNCTIONAL TREATED WRENS WW
: NUCAP 100G

Chemical Name : CHEMICALLY TREATED HYDRATED ALUMINUM SILICATE (KAOLIN)
(Synonyms) : (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 %

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

Additional Information:

Above ingredient percentages are representative of bulk samples.

Date MSDS Created: 20-NOV-91 Prepared by: JAY HUTTO, ENVIR.MGR ; Phone: 912-745-4751
Date Last Revised: 04-AUG-93
For Routine Inquiries Contact: Technical Services Dept. ; Tech Service Coordinator ; 912-745-4751

Jay Hutto 8/4/93

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:			7.0 - 8.5 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)

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.

NOTE: The above hazard determination is based on UNTREATED kaolin dust having less than 1.0% respirable silica.

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.

O S H A / H M I S L A B E L	
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.	

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.