ENGINEERED MINERALS

J.M. Huber Corporation

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J. M. HUBER

MATERIAL SAFETY DATA SHEET

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Doc#: 940829-0296

SECTION I: IDENTIFICATION

Group Name : KC01
: CALCINED WW KAOLIN
Trade Name : POLYFIL 40®

Chemical Name : ANHYDROUS ALUMINUM SILICATE
(Synonyms) : (CALCINED KAOLIN; CALCINED 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
CALCINED KAOLIN	66402-68-4	97.50 %	99.50 %
TITANIUM DIOXIDE	13463-67-7	0.50 %	2.50 %

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Amorphous calcined kaolin (anhydrous aluminum silicate) is produced by heating naturally-ocurring crystalline kaolin (hydrated aluminum silicate) to very high temperatures.

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

Date MSDS Created: 13-AUG-91 Prepared by: JAY HUTTO, ENVIR.MGR ; Phone: 912-745-4751
Date Last Revised: 29-AUG-94
For Routine Inquiries Contact:
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Jay Hutto 8/29/94

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) - Less than 0.1% respirable.

SECTION III: PHYSICAL CHARACTERISTICS

PHYSICAL DATA:	Qty	Units	Text
Specific Gravity:			2.5 - 2.7
Melting Point:	1700	DEGC	Approximately
pH Concentration:			5.0 - 7.0 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	Historical
Skin Absorpt-	Non-hazardous	Historical
Eye-	Nuisance Dust	Historical
Ingestion-	Non-hazardous	Historical
Inhalation-		

* Dust OSHA PEL = See 29 CFR 1910.1000 Tables Z-1-A and Z-3.
ACGIH TLV =10 mg/cu.meter (Total Dust).

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

EFFECTS OF EXPOSURE:

Acute:

* No acute effects. Brief exposures to nuisance dust concentrations above the 8-hour recommended Threshold Limit Value (TLV) should pose no acute health problems.

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 NON-CALCINED kaolin dust. Kaolin dust has been the subject of several epidemiological studies. Historical experience suggests that the hazards of calcined kaolin are similar.

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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 AND EXPLOSION HAZARDS

(Flammability Classification)

Additional Information:

This product is NOT a fire hazard or an explosive hazard in either the powder or slurry form. No special fire fighting procedures or extinguishing media are required. Flammable Limits in Air: 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 for Calcined Kaolin.

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. Accidental releases can be cleaned up 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.

Additional Information:
NEUTRALIZING CHEMICALS: None Required.

SECTION 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 wear a dust mask approved by NIOSH.

SECTION IX: SPECIAL PRECAUTIONS

Precautionary Statements/Labeling:
Accumulations on walking surfaces will cause very slippery conditions when wet.

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

CALCINED KAOLIN	CAS# 66402-68-4	97.50 %	99.50 %
TITANIUM DIOXIDE	CAS# 13463-67-7	0.50 %	2.50 %

****
*CAUTION: PROLONGED BREATHING OF EXCESSIVE DUST MAY AFFECT LUNG FUNCTION. USE DUST MASK IN DUSTY AREAS.
****
J.M. HUBER CORPORATION - CLAY DIVISION - MACON, GA (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 : 21 CFR 186.1256; 21 CFR 176.170; et al.

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

SECTION IX: SPECIAL PRECAUTIONS

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:
** Sara 311: Listed. ACGIH TLV assigned.