



**ENGINEERED
MINERALS**

J.M. Huber Corporation

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J. M. HUBER

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MATERIAL SAFETY DATA SHEET

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Doc#: 930630-0235

SECTION I: IDENTIFICATION

Group Name : KC01
 Trade Name : CALCINED WW KAOLIN
 : POLYPIL 90[®]
 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
KAOLIN	1332-58-7	97.50 %	99.50 %
TITANIUM DIOXIDE	13463-67-7	0.50 %	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: 13-JUL-92 Prepared by: JAY HUTTO, ENVIR.NGR ; Phone: 912-745-4751
 Date Last Revised: 30-AUG-93
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Jay Hutto 6/30/93

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) - 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
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*** 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.

 *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.

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)

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.

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 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

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.