



**ENGINEERED
MINERALS**

J.M. Huber Corporation

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J. N. HUBER

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MATERIAL SAFETY DATA SHEET

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SECTION I: IDENTIFICATION

Group Name : K01
 Trade Name : HUBER WATERWASH KAOLIN
 : POLYFIL XB ®
 Chemical Name : HYDRATED ALUMINUM SILICATE; KAOLIN
 (Synonyms) : (KAOLIN CLAY; 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 %	99.10 %
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: 26-AUG-91 Prepared by: JAY HUTTO, ENVIR.MGR ; Phone: 912-745-4751
 Date Last Revised: 02-AUG-93
 For Routine Inquiries Contact: Technical Services Dept. ; Tech Service Coordinator ; 912-745-4751

Jay Hutto 8/2/93

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%.

**BACTERICIDE(S)-- One from list below in slurry shipments only. Toxic effects shown below are for concentrated (undiluted) bactericide. (MSDS available upon request.) Treatment levels in the slurry range from 15-500 ppm (active basis).

AMA 424, AMA 35 D-P

(3, 5, dimethyl - 1, 3, 5 2H tetrahydrothiadiazine-2-thione): Allergic sensitizer. May give off small quantities of ammonia, formaldehyde, dimethylamine, and other irritant gases. These gasses could accumulate in the top of slurry tank cars in very low concentrations. Avoid breathing fumes when opening tank car.

Daracide 6202; AMA 415, et al

(5-Chloro-2-methyl-4-isothiazolin-3-one) CAS # 2617-55-4-4

(2-Methyl-4-isothiazolin-3-one) CAS # 2682-20-4

Corrosive. Severe skin irritant. Possible permanent eye injury and/or allergic reaction to pure ingredient.

Proxel GXL, et al (1,2-benzisothiazolin-3-one): Skin irritant. Contact sensitizer at 500 ppm of the pure active ingredient.

VANCIDE TH, et al (Hexahydro-1,3,5-triethyl-s-triazine) :

Eye irritant. Acute oral LD50 = 0.316 ml/kg in rats (pure active ingredient). Decomposition products: ethylamine, and formaldehyde at pH less than 6.3.

UCARCIDE 750 (Glutaraldehyde) : Inhalation of vapor causes lachrymation, chest tightness and headache. (TLV = 0.2 ppm Ceiling)

SECTION III: PHYSICAL CHARACTERISTICS

PHYSICAL DATA:	Qty	Units	Text
Boiling Point:	100	DEGC	For water in slurry.
Specific Gravity:	2.61		
Melting Point:	1700	DEGC	For solids in slurry.
Volatile Percentage:			Slurry: 30%(+/-2%) Water
pH Concentration:			6.0 - 7.5 at 28% solids
Solubility Data:			Negligible
Appearance and Odor:			
White liquid or dry 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 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.

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

Reactivity Classification: NONE
Conditions to Avoid:
NONE
Hazardous Polymerization: Will Not Occur
Conditions to Avoid:
NONE
Hazardous Decomposition: N/A
Conditions to Avoid:
NONE (See Section II.A for Bactericide.)

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 97.50 % 99.10 %
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 : 21 CFR 176.170; 21 CFR 186.1256; et al. Contact Huber Tech Services.

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.