

MATERIAL SAFETY DATA SHEET

DOC. NO: 050989 K01

PRODUCT GROUP: Huber Waterwash

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I. PRODUCT IDENTIFICATION

MANUFACTURERS NAME: J.M. HUBER CORPORATION
ADDRESS: Route 4 Macon, Georgia 31298
TELEPHONE NO.: (912) 745-4751

TRADE NAME/LABEL NAME: POLYFIL® X

DOT/IATA: Not Restricted.

CHEMICAL NAME;(SYNONYMS): Kaolin; (China Clay); (Hydrated Aluminum Silicate).

II. HAZARDOUS INGREDIENTS

Kaolin: CAS NO. 1332-58-7

Kaolin is a naturally occurring mineral substance containing many ingredients in small but varying amounts. The possible health effects of kaolin dust as a whole have been the subject of several epidemiological studies. No study suggests that any particular ingredient contributes identifiably to the possible health effects of the mixture as a whole.

Titanium Dioxide: 0.9% - 2.5% (in bulk sample) CAS NO. 13463-67-7

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)--Slurry shipments only. MSDS available on request. Toxic effects shown below are for the concentrated (undiluted) bactericide. Treatment levels in the slurry range from 15-500 ppm (active basis).

1. 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 gases could accumulate in the top of slurry tank cars in very low concentrations. Avoid breathing fumes when opening tank car hatches.
2. Proxel GXL, et al (1,2-benzisothiazolin-3-one) : Skin irritant. Contact sensitizer at 500 ppm of the pure active ingredient.
3. 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.
4. Ucarcide 750 (Glutaraldehyde): Inhalation of vapor causes lachrymation, chest tightness and headache. (TLV = 0.2 ppm Ceiling: ACGIH 1985).

MARKETED BY

HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Seiberling Street • Akron, Ohio 44305

 III. HEALTH HAZARD DATA

INHALATION	Nuisance Dust*	OSHA PEL= See 29 CFR 1910.1000 Tables Z-1-A and Z-3. ACGIH TLV= 10 mg/cu.meter (Total Dust).
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SOURCE: ACGIH TLV's-Threshold Limit Values for Chem. Substances.

* ACGIH considers kaolin a nuisance dust when toxic impurities are not present (i.e., quartz less than 1.0% in the total airborne dust).

SKIN CONTACT	Non-hazardous	Historical
SKIN ABSORPTION	Non-hazardous	Historical
EYE CONTACT	Nuisance Dust	Historical
INGESTION	Non-hazardous	Historical

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

EFFECTS OF CHRONIC OVEREXPOSURE: 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/ FIRST AID PROCEDURES:

EYES AND SKIN: No special precautions; flush with water.
INHALATION AND INGESTION: No special precautions.

 IV. PHYSICAL DATA

N.A.= Not Applicable

APPEARANCE AND ODOR: White Powder with Negligible Odor.	BOILING POINT:N.A.
% VOLATILES BY VOL.: Powder: N.A. Slurry: 30%(+/-2%)	VAPOR PRESSURE:N.A.
SOLUBILITY IN WATER:Negligible.	EVAPORATION RATE:N.A.
MELTING POINT: Approx. 1700 Degrees C.	VAPOR DENSITY:N.A.
pH: 6.0 - 7.5 at 28% solids.	SPECIFIC GRAVITY 2.61

V. FIRE AND EXPLOSION DATA

FLASH POINT: None.

AUTOIGNITION TEMP.: None.

FLAMMABLE LIMITS IN AIR: N.A.

Kaolin 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.

VI. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: None.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None for kaolin.

VII. DISPOSAL, SPILL OR LEAK PROCEDURES

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)

WASTE DISPOSAL METHOD:

Kaolin is not classified as a hazardous waste under RCRA Section 3001. Use normal solid waste disposal procedures which are in compliance with Federal, State and Local Regulations.

SPILL OR LEAK PROCEDURES:

Kaolin is not classified as 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.

NEUTRALIZING CHEMICALS: None Required.

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.

IX. SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS/LABELING: Kaolin accumulations on walking surfaces will cause very slippery conditions when wet.

O.S.H.A./ H.M.I.S. LABEL

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

* CAUTION: Prolonged breathing of excessive dust may affect lung function. Use dust mask in dusty areas.

Labeled in accordance with OSHA's Hazard Communication Rule and the HMIS Rating System developed by the National Paint and Coatings Association, 1500 Rhode Island Ave., N.W. Washington, D.C. 20005.

ADDITIONAL REGULATORY CONCERNS:

FDA: Kaolin enjoys several sanctions under FDA Regulations. Please contact the Technical Services Department for more specific information.

SARA (Title III): Listed substance. USDA: None. CPSC: None.

TSCA: This product or each ingredient has been certified for inclusion on the TSCA Inventory of Chemical Substances? Yes.

OSHA: Have ingredients in concentrations above 0.1% been:

1. Listed in the NTP Annual Report on Carcinogens? No.
2. Found to be a potential carcinogen by OSHA or IARC? No.

STATE: Consult Local and State Hazard Communication Regulations.

The information contained in this Material Safety Data Sheet 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.

FOR MORE INFORMATION CONTACT: Tech. Services Dept. PHONE: (912) 745-4751.
J.M. HUBER CORPORATION- CLAY DIVISION DATE: May 9, 1989