

1. PRODUCT IDENTIFICATION

PRODUCT NAME: WRENS WATERWASH KAOLIN
TRADE NAME: POLYFIL® HG90
PRODUCT CODES: K02
MANUFACTURER'S NAME: Huber Engineered Materials
STREET ADDRESS: One Huber Road
CITY/STATE/POSTAL CODE/COUNTRY: Macon, Georgia 31298 USA
TELEPHONE NUMBER: 912.745.4751

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMMON CHEMICAL NAME: Hydrated Aluminum Silicate; Kaolin

SYNONYMS: (Kaolin Clay; China Clay)

<u>COMPOUND</u>	<u>CAS NUMBER</u>	<u>TYPICAL CONCENTRATION, %</u>	
KAOLIN	1332-58-7	97.5%	99.1%
TITANIUM DIOXIDE	13463-67-7	0.9%	2.5%

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

ADDITIVES OR INGREDIENTS WHICH BE MAY PRESENT, AND WHICH MIGHT BE OF INDUSTRIAL HYGIENE INTEREST:

SILICA: Product contains less than 0.1% total crystalline silica. Inhalable crystalline silica fraction, unknown.

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

AMA 490 (2-Bromo-2-nitro-1,3-propanediol): CAS # 52-51-7 For use only as an antimicrobial / preservative in fillers pigment slurries, starch sizing solutions, and latex coatings at levels not to exceed 0.01 percent by weight of those components.

Daracide 6202; AMA 415, et al (5-Chloro-2-methyl-4-isothiazolin-3-one): CAS # 2616-55-4-4 (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)

3. HAZARDS IDENTIFICATION

<u>ROUTE OF EXPOSURE</u>	<u>HAZARD DETERMINATION</u>	<u>BASIS FOR DETERMINATION</u>
SKIN CONTACT	Non-hazardous	Historical
SKIN ABSORPTION	Non-hazardous	Historical
EYE CONTACT	Nuisance Dust	Historical
INGESTION	Non-hazardous	Historical
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% Total 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: OSHA 29 CFR 1910.1000 TABLE Z-1-A

SOURCE: ACGIH TLV'S Threshold Limit Values for Chemical Substances

SOURCE: To the best of our knowledge, no studies have been done on eye, skin or ingestion hazards.

4. FIRST AID MEASURES

EYE AND SKIN: No special precautions; flush with water.

INHALATION AND INGESTION: No special precautions.

5. FIRE FIGHTING MEASURES

FLASH POINT: None.

AUTOIGNITION TEMPERATURE: None.

FLAMMABLE LIMITS IN AIR: N.A.

Kaolin is not a fire hazard or an explosive hazard in either the powder or slurry form. Special fire fighting procedures or extinguishing media are not applicable.

6. ACCIDENTAL RELEASE MEASURES

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.

NEUTRALIZING CHEMICALS: None required.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: No special precautions.

VENTILATION: Use sufficient general area ventilation. Local exhaust may be necessary where Threshold Limit Values (TLVs) are exceeded or dusty conditions exist.

9. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE: Non-essential, but desirable. **OTHER:** None. **GLOVES:** Non-essential.

RESPIRATORY PROTECTION: For dusty conditions use a dust mask approved by NIOSH.

PRECAUTIONARY STATEMENTS/LABELING: Accumulations on walking surfaces are very slippery when wet.

PRODUCT SAFETY LABEL / ETIQUETA DE SEGURIDAD		
Health / Salud =	0*	NO ACUTE EFFECTS / Ninguno efecto agudo
Flammability / Inflamable =	0	NONE / No
Reactivity / Reactiva =	0	NONE / No
Maximum Personal Protection / Maxima Proteccion Personal =	E*	DUST MASK / Mascarilla para polvo * H.M.L.S. Label / H.M.L.S. Etiqueta
KAOLIN CLAY / CAOLIN (CAS #1332-58-7) TITANIUM DIOXIDE / DIOXIDO de TITANIO (CAS #13463-67-7)		
* CAUTION: Prolonged breathing of excessive dust may affect lung function. Use dust mask in dusty areas.		* ADVERTENCIA: Respiracion de polvo excesivo puede afectar la función pulmonar. Use una mascarilla en areas con mucho polvo.
J.M. Huber Corporation – Engineered Materials Division Atlanta, Georgia 30327 USA		
		LSL#1

9. PHYSICAL CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White liquid or dry powder with negligible odor.

BOILING POINT: 100 DEGC for water in slurry.

SPECIFIC GRAVITY: 2.61

% VOLATILES BY VOL: Slurry: 30% (+/-2%) Water

pH: 6.0 - 7.5 at 28% solids

MELTING POINT: 1700 DEGC for solids in slurry.

VAPOR DENSITY: N.A.

SOLUBILITY IN WATER: Negligible

N.A. = NOT APPLICABLE

10. STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY: None.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None. (See Section 2 for bactericide.)

11. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE OVEREXPOSURE: No acute effects. Brief exposures above the 8-hr Threshold Limit Value (TLV) should pose no acute health risks.

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.

12. ECOLOGICAL INFORMATION

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).

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

DOT: Not Restricted

INTERNATIONAL REGULATIONS

UN number: None.

Inland waterways: None.

Air transport (IDAO/IATA): None.

Land transport: None.

Sea transport (IMDG code): None.

Harmonized Tariff Code: 2507.00.0000

15. REGULATORY INFORMATION

STATE

Consult Local and State Hazard Communication Regulations.

FEDERAL

CPSC: None.

USDA: None.

FDA: 21 CFR 175.105; 21 CFR 175.300; 21 CFR 175.320; 21 CFR 176.170; 21 CFR 176.180; 21 CFR 176.300; 21 CFR 177.1200; 21 CFR 177.2600; 21 CFR 178.3297; 21 CFR 186.1256; et al. Contact Tech Services.

TSCA: Is this product and all its ingredients certified for inclusion in the Toxic Substances Control Act 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.**

SARA304:	NO	SARA311:	YES **	SARA312:	POSSIBLY
SARA313:	NO	NJRTK:	YES	CAPROP65:	YES
CANDSL:	YES	ECOIN:	YES	ACOIN:	YES
RCRA:	NO				

ADDITIONAL INFORMATION: ** SARA311: LISTED. ACGIH TLV ASSIGNED.

WARNING: This product contains a chemical known to the State of California to cause cancer.
-- Trace amounts of lead, cadmium, respirable crystalline silica. --

16. OTHER INFORMATION

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 Federal or state regulations or existing patents covering any material or its use.

FOR MORE INFORMATION CONTACT: Huber Engineered Materials
Technical Services Department
PHONE: 912. 745.4751

*Opinion
4-15-99*