



MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

PRODUCT NAME: KAOLIN
TRADE NAME: NULOK® 390
PRODUCT CODES: CTK07 - AMINO CHEM TREATED WRENS WW
MANUFACTURER'S NAME: J.M. Huber Corporation
 Engineered Materials Division
STREET ADDRESS: 3160 Moon Station Road
CITY/STATE/POSTAL CODE/COUNTRY: Kennesaw, Georgia 30144 USA
TELEPHONE NUMBER: 770.423.1497

COMPOSITION INFORMATION ON INGREDIENTS

COMMON CHEMICAL NAME: Chemically Treated Hydrated Aluminum Silicate; Kaolin

SYNONYMS: (Chemically Treated Kaolin Clay; Chemically Treated China Clay)

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

<u>COMPOUND</u>	<u>CAS NUMBER</u>	<u>TYPICAL CONCENTRATION, %</u>	
KAOLIN	1332-58-7	96.5%	98.6%
TITANIUM DIOXIDE	13463-67-7	0.9%	2.5%

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

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

Amino Silane: The exact chemical identity and concentration of this treatment additive are confidential. The pure additive is slightly toxic by ingestion, and causes transient skin reddening on contact.

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)

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(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.

NOTE: This hazard determination is based on UNTREATED kaolin dust. Historical experience suggests that the hazards of chemically-treated kaolin may be similar to kaolin dust alone.

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.

8 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.I.S. Label / H.M.I.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

BOILING POINT: N.A.	SPECIFIC GRAVITY: 2.61
% VOLATILES BY VOL: 1-2% water.	pH: 8.0-9.5 at 28% solids.
MELTING POINT: 1700 DEGC for solids in slurry.	VAPOR DENSITY: N.A.
SOLUBILITY IN WATER: Negligible.	
APPEARANCE AND ODOR: White powder with negligible odor.	

N.A. = NOT APPLICABLE

11. STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY: None.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None.
HAZARDOUS DECOMPOSITION PRODUCTS: None.

12. TOXICOLOGICAL INFORMATION

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 mineral product, 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.

NOTE: This hazard determination is based on UNTREATED kaolin dust. Historical experience suggests that the hazards of chemically-treated kaolin may be similar to kaolin dust alone.

13. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: (96 hour TLm) Aluminum I/I Silicate (2:1) – over 1,000 ppm (Insignificant hazard).
 Hydrated Aluminum Silicate (Kaolin) – Not listed.

SOURCE: Registry of Toxic Effects of Chemicals (July, 1980).

14. 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.

15. 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: No approvals known.

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:	NO	EINECS:	NO	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
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