

1. PRODUCT IDENTIFICATION

PRODUCT NAME: Aluminum Trihydroxide
(Alumina Trihydrate, $Al(OH)_3$)
TRADE NAME: SB-336
PRODUCT CODES: ATHFD
MANUFACTURER'S NAME: Huber Engineered Materials
STREET ADDRESS: 187 Gordon Street
CITY/STATE/POSTAL CODE/COUNTRY: Fairmount, Georgia 30139-2907
TELEPHONE NUMBER: 706. 337.5322

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMMON CHEMICAL NAME: Alumina Trihydrate (non-fibrous) $Al_2O_3 \cdot H_2O$

SYNONYMS: Gibbsite, Alumina Trihydroxide, Alumina Hydroxide, Aluminum Oxide Trihydrate, Hydrated Alumina, ATH

<u>COMPOUND</u>	<u>CAS NUMBER</u>	<u>TYPICAL CONCENTRATION, %</u>
ALUMINA TRIHYDRATE	21645-51-2	> 99

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.

3. HAZARDS IDENTIFICATION

<u>ROUTE OF EXPOSURE</u>	<u>HAZARD DETERMINATION</u>	<u>BASIS FOR DETERMINATION</u>
SKIN CONTACT	May cause slight mechanical irritation.	
SKIN ABSORPTION	Non-hazardous	Historical
EYE CONTACT	May cause slight mechanical irritation.	
INGESTION	None reported.	Historical
INHALATION	Nuisance Dust TLV=10 mg/m ³	

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4. FIRST AID MEASURES

EYE: Flush eyes with clean water for at least 15 minutes until no evidence of material remains.

SKIN: Rinse exposed areas with fresh water, then wash thoroughly with mild soap and warm water. Avoid vigorous scrubbing which could aggravate abrasion irritation.

INHALATION: Remove from exposure area to fresh air immediately.

SKIN ABSORPTION: None.

5. FIRE-FIGHTING MEASURES

FLASH POINT: N.A.
TEMPERATURE: None.

AUTOIGNITION

FLAMMABLE LIMITS IN AIR: N.A.

ADDITIONAL INFORMATION: Evolves water vapor on heating to above 200° C. 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: Avoid dusting and contact with eyes and skin. Do not inhale dust.

STORAGE: Keep material dry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE: Wear eye protection whenever airborne nuisance dust is generated. Goggles are recommended.

VENTILATION: Provide sufficient ventilation to maintain dust concentration below ACGIH Threshold Limit Values (TLVs).

GLOVES: Wear gloves to prevent skin abrasions.

RESPIRATORY PROTECTION: 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 / Máscara de polvo * H.M.L.S. Label / H.M.L.S. Etiqueta
ALUMINUM TRIHYDROXIDE / TRIHIDRATO DE ALUMINIO (CAS #21645-51-2)		
* CAUTION: Prolonged breathing of excessive dust may affect lung function. Use dust mask in dusty areas.		*ADVERTENCIA: Respiración de polvo excesivo puede afectar la función pulmonar. Use una mascarilla en áreas con mucho polvo.
J.M. Huber Corporation – Engineered Materials Division Atlanta, Georgia 30327 USA		
LSL#4		

9. PHYSICAL CHEMICAL PROPERTIES

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

BOILING POINT: N.A.

SPECIFIC GRAVITY: 2.4

VOLATILITY: Slurry: 30-40% water.

pH: 8.5 - 10.2 at 20% solution.

MELTING POINT: N.A. Decomposes at 200° C.

VAPOR DENSITY (air =1): N.A.

SOLUBILITY IN WATER: Negligible.

N.A. = NOT APPLICABLE

10. STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY: Stable in air, water, and heat (up to 200° C.).

INCOMPATIBILITY: Dissolves in strong acids and strong alkalis.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

11. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE OVEREXPOSURE: Eye contact may cause abrasion and irritation. Inhalation of airborne nuisance dust may cause coughing, shortness of breath, wheezing or general irritation of breathing passages. Contact with skin may cause dryness and irritation.

EFFECTS OF CHRONIC OVEREXPOSURE: Airborne nuisance dust may cause chronic effects in eye contact irritation, including permanent abrasion damage to cornea. Breathing airborne nuisance dust can cause chronic breathing difficulty.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Unknown.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: None.

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 (IATA/IDAO): None.

Land transport: None.

Sea transport (IMDG code): None.

15. REGULATORY INFORMATION

STATE

Consult Local and State Hazard Communication Regulations.

FEDERAL

CPSC: None.

USDA: None.

FDA: 21 CFR 182.90: Substances migrating to food from paper and paperboard products.

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:	YES
SARA313:	NO	NJRTK:	YES	CAPROP65:	YES
CANDSL:	YES	ECOIN:	YES	RCRA:	NO

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
 Customer Service
PHONE: 877.949.5400

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