



MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

PRODUCT NAME: Surface Modified Aluminum Trihydroxide
(A(OH)₃)
TRADE NAME: MICRAL™ 9402
PRODUCT CODES: CTATHF
MANUFACTURER'S NAME: Huber Engineered Materials
STREET ADDRESS: 187 Gordon Street
CITY/STATE/POSTAL CODE/COUNTRY: Fairmount, Georgia 30139-2907
TELEPHONE NUMBER: 770.337.5322

2. COMPOSITION INFORMATION ON INGREDIENTS

COMMON CHEMICAL NAME: Alumina Trihydrate (non-fibrous) Al₂O₃ · 3H₂O

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	98-99
TRADE SECRET		1-2

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.

CHEMICAL ADDITIVE: The exact chemical identity and concentration of this treatment additive are protected as trade secrets. The pure additive is toxic by ingestion, and causes transient skin reddening on contact.

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	

Note: This hazard determination is based on the **untreated** ATH dust. Historical experience suggests that the hazards of the **chemically-treated** ATH dust may be similar.

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.

AUTOIGNITION TEMPERATURE: None.

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.

SMALL SPILLS: Use scoop or shovel to transfer material into a sealable container.

LARGE SPILLS: Control area of spill and collect material in sealable container or covered transport vehicles for removal to use site or disposal facility.

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.

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. Re-use material whenever possible. Waste material must be disposed of in accordance with local, state and federal agencies, at approved municipal landfill.

14. TRANSPORT INFORMATION

DOT: NOT RESTRICTED

INTERNATIONAL REGULATIONS

UN number: None.

Land transport: None.

Inland waterways: None.

Sea transport (IMDG code): None.

Air transport (IATA/IATA): None.

15. REGULATORY INFORMATION

STATE

Consult Local and State Hazard Communication Regulations.

FEDERAL

CPSC: None.

USDA: None.

FDA: None 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:	YES
SARA313:	NO	NJRTK:	YES	CAPROP65:	YES
CANDSL:	NO	ECCIN:	NO	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.

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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