

J. M. Huber Corporation

Alumina Trihydrate

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME J.M. HUBER CORPORATION/Engineered Minerals Division	EMERGENCY TELEPHONE NO. (770) 441-1301 (706) 337-5322
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SECTION I - MATERIAL DESCRIPTION

CHEMICAL NAME AND FORMULA Alumina Trihydrate, Al(OH) ₃	
CHEMICAL FAMILY Alumina Oxide (non-fibrous) Al ₂ O ₃ ·3H ₂ O	TRADE NAME/SYNONYMS Gibbsite; Alumina Trihydroxide; Alumina Hydroxide; Aluminum Oxide Trihydrate; Hydrated Alumina
CAS NUMBER: 21645-51-2 (Hydrated Alumina)	

SECTION II - INGREDIENTS AND IDENTIFICATION

CAS No.	Ingredient	Typical % By Weight	Occupational OSHA PEL	Exposure Limits ACGTH TLV
1344-28-1	Al ₂ O ₃	65.4	10	10
7732-18-5	H ₂ O	34.6		

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	NA	VAPOR PRESSURE (mmHg)	NA
VOLATILITY	NA	VAPOR DENSITY (air=1)	NA
EVAPORATION RATE	NA	pH (20% solution)	8.5 - 10.2
SOLUBILITY IN WATER	Insoluble	MELTING POINT	NA Decomposes at 200°C
SOLUBILITY (OTHER)	Strong Acids and Strong Alkalis	SPECIFIC GRAVITY	2.4

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	NA	EXTINGUISHING MEDIA	NA
FLAMMABLE LIMITS IN AIR	NA	SPECIAL FIRE PROCEDURES	NA
UNUSUAL FIRE AND EXPLOSION HAZARDS	NA		
ADDITIONAL INFORMATION: Evolves water vapor on heating to above 200° C			

SECTION V - REACTIVITY DATA

STABILITY	Stable in air, water and heat (up to 200° C)
INCOMPATIBILITY	Dissolves in strong acids and strong alkalis
HAZARDOUS DECOMPOSITIONS OR BYPRODUCTS	None
HAZARDOUS POLYMERIZATION	Will not occur
CORROSIVITY	Not corrosive

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY:							
INHALATION	YES	SKIN	NO	INGESTION	YES	EYES	YES
HEALTH HAZARDS:							
Acute				(Short Term) Over Exposure			
Skin Absorption				None reported			
Eye Contact				May cause abrasion and irritation			
Inhalation				Airborne nuisance dust may cause coughing, shortness of breath, wheezing or general irritation of breathing passages			
Skin Contact				May cause dryness and irritation			
Ingestion				None reported			
Chronic				(Long-Term) Over Exposure			
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.							
Carcinogenicity							
None reported for eye contact, skin absorption on contact, ingestion or inhalation							

SECTION VI - HEALTH HAZARD DATA (Continued)

SIGNS AND SYMPTOMS OF EXPOSURE:

Acute	(Short Term) Over Exposure
Skin Absorption	None Reported
Eye Contact	Tearing, redness
Inhalation	May cause coughing, mucus production, shortness of breath, wheezing and/or irritation of breathing passages
Skin Contact	Irritation, rash
Ingestion	None reported
Chronic	(Long Term) Over Exposure
Airborne nuisance dust can cause aggravated symptoms described above, and could lead to chest pains and/or choking if uninterrupted and untreated.	
Emergency First Aid Procedures:	
Inhalation	Remove from exposure area to fresh air immediately
Eye Contact	Flush eyes with clean water for at least 15 minutes until no evidence of material remains
Skin Contact	Rinse exposed areas with fresh water, then wash thoroughly with mild soap and warm H ₂ O. Avoid vigorous scrubbing which could aggravate abrasion irritation.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled

Small Spills	Use scoop or shovel to transfer material into a sealable container
Large Spills	Notify environmental personnel. Prevent runoff to watershed. Control area of spill and collect material in sealable container or covered transport vehicles for removal to use site or disposal facility.
Disposal	Re-use material whenever possible. Waste material must be disposed of in accordance with local, state and federal agencies, at approved secure landfill.

SECTION VIII - CONTROL MEASURES

Respiratory Protection	Use NIOSH/MSHA dust mask
Ventilation	Provide sufficient ventilation to maintain dust concentration below ACGIH TLV
Skin Protection	Wear gloves to prevent skin abrasions
Eye Protection	Wear eye protection whenever airborne nuisance dust is generated. Goggles are recommended.

SECTION IX - SPECIAL PRECAUTIONS & COMMENTS

Chemical substance components have been reported to the EPA Office of Toxic Substances in accordance with the requirements of the Toxic Substance Control Act (Title 40 CFR Part 710).

All statements, technical information and recommendations contained herein are based on tests and data which this company believes to be currently reliable, but accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto.

SECTION X - ADDITIONAL INFORMATION

HMIS Ratings:

Health	1	Reactivity	0
Flammability	0	Personal Protection	Dust Respirator

SECTION XI - TOXICOLOGICAL INFORMATION

Product is generally considered non-toxic.

cyt - rat - ipr:	20 mg/kg
ori - chd TDLo:	122 g/kg/4D
ipr - rat LDLo:	150 mg/kg

SECTION XII - ECOLOGICAL INFORMATION

Aquatic Toxicity:	None
Waterfowl Toxicity:	None
Biochemical Oxygen Demand:	None
Food Chain Concentration Potential:	None

SECTION XIII - DISPOSAL CONSIDERATIONS

Used or unused products should be tested to determine hazard status and disposal requirements under federal, state and local laws and regulations.

SECTION XIV - TRANSPORT INFORMATION

Product is **not** a hazardous material for regulation by DOT.

SECTION XV - REGULATORY INFORMATION**OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200**

Aluminum Oxide is considered a hazardous chemical.

TOXIC SUBSTANCE CONTROL ACT

This material is listed in the TSCA Inventory under its primary ingredients, aluminum oxide (CAS #1344-28-1) and water (7732-18-5).

EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT(SARA, TITLE III)

Section 302 Extremely Hazardous Substance: None

Section 311/312 Hazardous Categories: Immediate (acute) health hazards

Section 313 Toxic Chemical: None

* May cause mechanical irritation to eye if exposed to large amounts of dust.

CERCLA/SUPERFUND, 40 CFR 117, 302:

This product contains no Reportable Quantity (RQ) substances.

WHMIS: One Percent (1%)

CALIFORNIA PROPOSITION 65:

Reproductive: No

Carcinogen: No

OSHA PROCESS SAFETY MANAGEMENT, 29 CFR 1910.119:

This product is **not** subject to the Process Safety Management requirements of 29 CFR 1910.119.

EPA CHEMICAL ACCIDENT RELEASE PREVENTION, 40 CFR PART 68:

This product is not subject to the Risk Management Plan requirements of 40 CFR Part 68.

INTERNATIONAL REGULATIONS

CANADIAN DOMESTIC SUBSTANCES LIST: Components of this product are listed on the Canadian DSL.

EUROPEAN COMMUNITY: Components of this product are listed on ECOLIN, the European core inventory (EC) market.

FOR MORE INFORMATION CONTACT

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PHONE

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DATE

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Prepared by: Paris Chen