

Franklin Industrial Minerals

Material Safety Data Sheet

I - IDENTIFICATION				
CHEMICAL NAME	CHEMICAL FORMULA		MOLECULAR WEIGHT	
Alumina Tri-hydrate	Al(OH) ₃ *3H ₂ O		Not Applicable	
TRADE NAME/SYNONYMS			DOT IDENTIFICATION NO.	
Hydrated Alumina, Gibbsite, Hydrate, Alumina Trihydroxide, Alumina Hydroxide			Not Restricted	
II - PRODUCT AND COMPONENT DATA				
COMPONENT(S) CHEMICAL NAME			CAS REGISTRY NO.	
Hydrated Alumina			21645-51-2	
CAS #	Ingredient	Typical weight %	OSHA PEL	Exp. Limit ACGTH TLV
1344-28-1	Al ₂ O ₃	65.4	10	10
7732-18-5	H ₂ O	34.6		
III - PHYSICAL DATA		IV - REACTIVE DATA		
APPEARANCE & ODOR	SPECIFIC GRAVITY	STABILITY	CONDITIONS TO AVOID	
White, Odorless Grains	2.42	Stable	None Known	
BOILING POINT	VAPOR DENSITY (AIR=1)		INCOMPATIBILITY (Materials to Avoid)	
N/A	N/A		Strong Acids and Bases	
VAPOR PRESSURE	% VOLATILE, By Volume	HAZARDOUS DECOMPOSITION PRODUCTS		
N/A	N/A	Respirable Dust May Be Generated by Handling and May Contain a Small Amount of Silica		
EVAPORATION RATE	SOLUBILITY IN WATER	HAZARDOUS POLYMERIZATION		
N/A	Insoluble	Will Not Occur		
V - FIRE AND EXPLOSION DATA				
FLASHPOINT (Method Used)		FLAMMABLE LIMITS IN AIR		
Not Flammable		Not Flammable		
EXTINGUISHING AGENTS		UNUSUAL FIRE & EXPLOSION HAZARDS		
None Required		None Known		
VI - TOXICITY AND FIRST AID				
EXPOSURE LIMITS <small>(When exposure to this and other chemicals is concurrent, the exposure limit must be defined in the workplace.)</small>				
Unless Specified Otherwise, Limits Are Expressed as Milligrams of Substance per Cubic Meter of Air.				
<small>ACGIH-TLV</small> 10.0 For Total Dust / 5.0 For Respirable Dust		<small>OSHA CFR 1910.1000 TWA</small> 15.0 For Total Dust / 5.0 For Respirable Dust		<small>TLV=Threshold Limit Value TWA=Time Weighted Average</small>
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE				
NUISANCE DUSTS HAVE LITTLE ADVERSE EFFECT ON LUNGS AND DO NOT PRODUCE SIGNIFICANT ORGANIC DISEASE OR TOXIC EFFECTS WHEN EXPOSURES ARE KEPT BELOW OCCUPATIONAL EXPOSURE LIMITS.				
PRIMARY ROUTES OF EXPOSURE: INHALATION <input checked="" type="checkbox"/> SKIN <input type="checkbox"/>				
ACUTE TOXICITY EXPOSURE TO DUST MAY IRRITATE RESPIRATORY SYSTEM, EYES AND SKIN				
Contact.....No Adverse Effects Skin Absorption.....No Adverse Effects				
Eye Contact.....May Cause Irritation If Exposed to Large Amounts of Dust				
Ingestion.....Non-Hazardous				
FIRST AID				
Dust In Eyes- Flush with water. Contact a Physician if irritation persists or later develops.				
Dust On Previously Irritated Skin- Wash with soap and water. Contact a Physician if irritation is aggravated.				
Dust Inhalation- Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a Physician if irritation persists or later develops.				

CHRONIC TOXICITY

This product is not considered toxic under SARA TITLE III, section 313, On February 14, 1990, the US Environmental Protection Agency deleted non-fibrous forms of aluminum oxide from the list of toxic chemicals to be registered under section 313 of the Emergency Planning and Community Right-To-Know Act (SARA TITLE III). Products covered by this MSDS contain only non-fibrous forms of Aluminum Oxide.

VII - PERSONAL PROTECTION AND CONTROLS

RESPIRATORY PROTECTION

Under normal manufacturing conditions, no respiratory protections are required when using this product. However, if the area of concentration approaches "nuisance dust" levels, a NIOSH/MSHA respirator should be used.

HMIS RATING SYSTEM

C.A.S No. 1344-28-1

HEALTH HAZARD

1

FLAMMABILITY
HAZARD

0

REACTIVITY
HAZARD

0

MAXIMUM PERSONAL
PROTECTION

A

VENTILATION

Local exhaust or general ventilation adequate to maintain exposure below appropriate exposure levels

SKIN PROTECTION

See HYGIENE section below

EYE PROTECTION

Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or anticipated.

HYGIENE

Wash dust-exposed skin with soap and water. Wash work clothes after each use. Sweep up spills and keep work area clean

OTHER CONTROL MEASURES

Respirable dust levels should be monitored regularly when appropriate exposure limits are likely to be exceeded.

VIII - STORAGE AND HANDLING PRECAUTIONS

Store material in dry location because of tendency to absorb moisture.

IX - SPILL, LEAK AND DISPOSAL PRACTICES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Shovel or sweep into a DOT approved shipping container for salvage value or disposal in accordance with federal, state and local laws.

WASTE DISPOSAL METHOD

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

X - TRANSPORTATION

DOT HAZARD CLASSIFICATION

None

PLACARD REQUIRED

None

LABEL REQUIRED

Label as required by OSHA Hazard communications standard [29 CFR 1910.1200 (f)] and applicable state and local regulations.

FOR FURTHER INFORMATION CONTACT:

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