



# Safety Data Sheet

FIRE RETARDANT ADDITIVES

## MoldX® A110

Prepared in accordance with GB/T 16483-2008, GB/TGB/T 24774-2009, GB 13690 – 2009, GB/T 17519–2013  
Globally Harmonized System (GHS)

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## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	MoldX® A110
Pure substance/mixture	Substance
<u>Aluminum Hydroxide</u>	
CAS Number	21645-51-2
Weight-%	100
Recommended Use	Flame retardant
Company:	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300
Emergency Telephone	CHEMTREC: 1 800 424 9300 or International +1 703 527 3887
E-mail	hubermaterials@huber.com
Internet	www.hubermaterials.com

## Section 2: HAZARDS IDENTIFICATION

GHS Classification	Not classified
Physical Hazard	Not classified
Health Hazard	Not classified
Environmental Hazard	Not classified
Label Elements	
Symbols/Pictograms	None
Signal Word	None
<u>Precautionary Statements</u>	
Prevention	None

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**Response** None

**Spills and Leaks** Collect spillage

**Storage** Store in a dry place

**Disposal** Dispose in accordance with local, state and national regulations

**General Advice** None

**Additional Information:** None.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Substance

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	REACH registration number	Weight-%
Aluminum Hydroxide	21645-51-2	Y	Not classified	Y	01-2119529246-39-0016	100

### Section 4: FIRST AID MEASURES

**General Advice** None

**Eye Contact** Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.

**Skin Contact** Wash skin with soap and water

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

**Ingestion** Rinse mouth with water. Do not induce vomiting.

**Notes to Physician** Treat symptomatically

**Personal Protective Equipment For First Aid Responders** Wear suitable protective clothing  
IF exposed or concerned: Get medical advice/attention

**Expected acute symptoms and delayed symptoms** None known

### Section 5: FIRE FIGHTING MEASURES

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<b>Flammable Properties</b>	None known
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media:</b>	None known
<b>Specific Hazards Arising from the Chemical</b>	None known
<b>Unusual fire &amp; explosion hazards:</b>	None
<b>Protective measures:</b>	Use protective equipment that is appropriate for surrounding materials.
<b>Protective Equipment and Precautions for Firefighters</b>	Wear self-contained breathing apparatus and protective suit

## Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid dust formation. When exposed to high concentrations of airborne dust, wear a SCBA in accordance with national legislation
<b>Environmental Precautions</b>	This product does not present any particular risk to the environment. Refer to applicable national, state and local regulations prior to washing in drain.
<b>Methods for cleaning up</b>	Pick up mechanically and / or by rinsing with water. Avoid dry sweeping and use a sprinkler system or exhaust ventilation to prevent dust formation.
<b>Other Information:</b>	None known

## Section 7: HANDLING AND STORAGE

<b>Handling</b>	Avoid dust formation. Avoid breathing dust. Handle in accordance with good industrial hygiene and safety practice.
<b>Storage</b>	Store in a dry area. Keep containers closed and protect from physical damage.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limits</b>	Provide adequate ventilation as well as local exhaust at critical locations
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Aluminum Hydroxide  
ACGIH  
NIOSH  
OSHA

TLV/TWA 8-hr: 1 mg/m<sup>3</sup> (respirable fraction)  
TWA: 5 mg/m<sup>3</sup> (respirable dust); 10 mg/m<sup>3</sup> TWA (total dust)  
TWA: 15 mg/m<sup>3</sup> Total Dust  
5 mg/m<sup>3</sup> Respirable Dust

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<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas Provide a good standard of controlled ventilation (10 to 15 air changes per hour)
<b><u>Personal Protective Equipment</u></b>	
<b>Eye/Face Protection</b>	Wear safety glasses with side shields (or goggles)
<b>Skin and Body Protection</b>	Wear suitable protective clothing
<b>Hand Protection</b>	Impervious gloves
<b>Respiratory Protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice Handle in accordance with good industrial hygiene and safety practice
<b>Environmental Exposure Controls</b>	Dispose of in accordance with local regulations

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### Appearance:

<b>Physical State</b>	Solid Powder
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH:</b>	8.4 - 10.2 5% Water suspension
<b>Melting point / Freezing point</b>	ca 300 °C / 572 °F (1013 kPa)
<b>Initial boiling point</b>	5396 °F (2980 °C) 101,3 kPa
<b>Flash Point:</b>	Not applicable.
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper flammability limit:</b>	
<b>Lower flammability limit:</b>	
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Relative Density</b>	2.4 g/cm3, 20° C
<b>Water Solubility</b>	Insoluble
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	392 °F (200 °C)
<b>Viscosity</b>	Not applicable.
<b>Explosive Properties</b>	None
<b>Oxidizing Properties</b>	Not applicable
<b>VOC Content (%)</b>	Not applicable

## Section 10: STABILITY AND REACTIVITY

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<b>Stability</b>	Stable under normal conditions
<b>Conditions to avoid:</b>	None known
<b>Incompatible materials</b>	Strong acids
<b>Hazardous decomposition products</b>	None under normal processing
<b>Hazardous Reactions</b>	None under normal processing
<b>Hazardous polymerization:</b>	None under normal processing

## Section 11: TOXICOLOGICAL INFORMATION

**General Information** Users are advised to consider national Occupational Exposure Limits or other equivalent values.

### Product Information

#### **Information on Likely Routes of Exposure**

<b>Inhalation</b>	Based on available data, the classification criteria are not met
<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Aspiration hazard</b>	Not an expected route of exposure.
<b>Symptoms</b>	Low hazard for usual industrial or commercial handling

#### **11.1. Information on toxicological effects**

##### Aluminum Hydroxide

<b>Oral LD50</b>	> 2000 mg/kg Rat
<b>Inhalation LC50</b>	Rat > 2.3 mg/l (Al <sub>2</sub> O <sub>3</sub> ) Aerosol Maximum attainable concentration
<b>IARC</b>	Not Listed
<b>Acute Toxicity</b>	Based on available data, the classification criteria are not met
<b>Chronic Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Chronic Effects</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Non-irritant Rabbit
<b>Respiratory Sensitization</b>	No information available

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<b>Skin Corrosion/Irritation</b>	Non-irritant Rabbit
<b>Skin Sensitization</b>	Based on available data, the classification criteria are not met Not a skin sensitizer Guinea pig
<b>Mutagenicity</b>	in vitro. Not genotoxic in bacteria and mammalian cell systems. in vivo. Mutagenicity (micronucleus test). Rat. Negative. (weight of evidence approach).
<b>Germ cell mutagenicity</b>	No information available.
<b>Reproductive Effects</b>	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - Single exposure</b>	Not classified.
<b>Specific target organ toxicity - Repeated exposure</b>	No information available.
<b>Mixture versus substance information</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Not considered to be harmful to aquatic life.
<b>Persistence/Degradability:</b>	The methods for determining biodegradability are not applicable to inorganic substances.
<b>Bioaccumulative Potential</b>	Not likely to bioaccumulate.
<b>Partition coefficient</b>	No information available
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>Mobility in soil</b>	No information available.
<b>Results of PBT and vPvB assessment</b>	This substance does not meet the criteria for classification as PBT or vPvB.
<b>Other Adverse Effects</b>	No information available

## Section 13: DISPOSAL CONSIDERATIONS

<b>Waste from Residues/Unused Products</b>	Dispose of in accordance with local regulations
<b>Contaminated Packaging:</b>	Empty containers should be taken to an approved waste handling site for recycling

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or disposal.

**Section 14: TRANSPORT INFORMATION****Mode of Transportation (Road, Water, Air, Rail)**

DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards No

14.6. Special precautions for user Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Global Inventories**

Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51-2	244-492-7	01-211952924-6-39-0016	Y	Y	Y	Y	KE-00980	Y	Y	Y	Y	Y

**Legend**

X / Y: Complies - / N: Not Listed Exempt

**Section 16: OTHER INFORMATION**

<b>Prepared by</b>	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com
<b>Reason for Revision</b>	GB/T 16483-2008 GB/T 24774-2009 GB 13690 – 2009 GB/T 17519–2013
<b>GHS Classification</b>	Not classified
<b>Physical Hazard</b>	Not classified
<b>Health Hazard</b>	Not classified
<b>Environmental Hazard</b>	Not classified
<b>Label Elements</b>	
<b>Symbols/Pictograms</b>	None
<b>Signal Word</b>	None
<b>Abbreviations and acronyms</b>	International Agency for Research on Cancer (IARC) International Air Transport Association (IATA) International Maritime Dangerous Goods (IMDG) International Uniform Chemical Information Database (IUCLID) Workplace Hazardous Materials Information System (WHMIS) status and classification EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification DOT (Department of Transportation) OSHA (Occupational Safety and Health Administration of the US Department of Labor) TWA - Time-Weighted Average Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) PPE - Personal Protection Equipment NIOSH - National Institute for Occupational Safety and Health TDG (Transport of Dangerous Goods) Canada CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Reportable Quantity (RQ) (RQ/% in mixture) STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL) SVHC: Substances of Very High Concern for Authorization: Land transport (ADR/RID) Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ICAO (air) (IMDG) International Maritime Dangerous Goods Positive Pressure Self-Contained Breathing Apparatus (SCBA) Predicted No Effect Concentration (PNEC) Globally Harmonized System (GHS)

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**End of Safety Data Sheet**