



**ADVANCED MATERIALS**

# Safety Data Sheet

## MoldX® A400

OSHA HCS 2024  
Canadian Workplace Hazardous Material Information System (WHMIS) 2015 rev 2022  
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015  
GHS (Globally Harmonized System)

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Name:** MoldX® A400  
**Pure substance/mixture** Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use:** Flame retardant  
Smoke Suppressant

### 1.3. Details of the supplier of the safety data sheet

**Company:** J.M. Huber Corporation  
3100 Cumberland Boulevard, Suite 600  
Atlanta, GA 30339 USA  
Tel: +1 678 247-7300

**Internet** [www.huberadvancedmaterials.com](http://www.huberadvancedmaterials.com)

**Contact E-Mail** [www.huberadvancedmaterials.com/contact](http://www.huberadvancedmaterials.com/contact)

**1.4. Emergency telephone number** CHEMTREC: +1 800 424 9300 or International 1+703-527-3887

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**OSHA Regulatory Status** This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**GHS Classification** This product is not classified as hazardous according to the UN GHS guideline and labeling is not required

**Physical Hazards** Not classified.

**Health Hazards** Not classified.

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**Environmental Hazard** Not classified.

### 2.2. Label elements

**Symbols/Pictograms** None

**Signal Word** None

**Hazard Statements** None

### Precautionary Statements

**Prevention** Do not handle until all safety precautions have been read and understood  
Employ good industrial hygiene practice  
Do not breathe dust  
Wear protective gloves/protective clothing/eye protection/face protection

**Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
IF ON SKIN: Wash with plenty of soap and water

**Storage** Store away from incompatible materials  
Keep in a dry place

**Disposal** Disposal should be in accordance with applicable regional, national and local laws and regulations

**Hazards not otherwise classified (HNOC)** None known.

**Hazards associated with known or reasonably anticipated uses** None known.

**Unknown Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity.

## SECTION 3: Composition/information on ingredients

**Pure substance/mixture** Mixture

Chemical Name	CAS Number	Weight-%
Aluminum Hydroxide	21645-51-2	>95
Flame Retardant Synergist	Trade Secret	<5

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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<b>General Advice</b>	Do not handle until all safety precautions have been read and understood. Employ good industrial hygiene practice. Wear suitable protective clothing, gloves and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if symptoms are observed, get medical advice.
<b>Eye Contact</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Skin Contact</b>	Wash with plenty of soap and water.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<b>Inhalation</b>	Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Aspiration hazard</b>	Not an expected route of exposure.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>).

#### **Unsuitable Extinguishing Media**

None known.

### 5.2. Special hazards arising from the substance or mixture

None known.

### 5.3. Advice for firefighters

#### **Special protective equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

#### **Fire-fighting measures**

Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. Use personal protection recommended in Section 8. Keep unauthorized personnel away.

**For non-emergency personnel** Keep unauthorized personnel away.

**For emergency responders** Keep unauthorized personnel away. Use personal protection recommended in Section 8.

**6.2. Environmental precautions** Avoid runoff to waterways and sewers.

**6.3. Methods and material for containment and cleaning up** Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust Small Spill: Vacuum or sweep material and place in a disposal container

**6.4. Reference to other sections** Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities** Keep container tightly closed and dry. Store away from incompatible materials.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### Aluminum Hydroxide

OSHA

ACGIH

Canada - Ontario - OEL - TWA EVs

TWA: 15 mg/m<sup>3</sup> (Total Dust)

5 mg/m<sup>3</sup> (Respirable Dust)

TLV/TWA 8-hr: 1 mg/m<sup>3</sup> (respirable fraction)

1 mg/m<sup>3</sup>

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Canada - Nova Scotia - OEL - TWA 1 mg/m<sup>3</sup> TWA (respirable fraction)

### **Flame Retardant Synergist**

OSHA - Final PELs -TWA  
15 mg/m<sup>3</sup> TWA  
5 mg/m<sup>3</sup> TWA  
15 mppcf TWA

Canada - BC TWA 2 mg/m<sup>3</sup>

Canada - Ontario - OEL - TWA EVs 2 mg/m<sup>3</sup>

Canada - Manitoba - OEL - TWA 2 mg/m<sup>3</sup>

Canada - Newfoundland & Labrador - 2 mg/m<sup>3</sup>

OEL - TWA

Canada - Nova Scotia - OEL - TWA 2 mg/m<sup>3</sup>

Canada - Prince Edward Island - OEL - 2 mg/m<sup>3</sup>

TWA

Mexico 2 mg/m<sup>3</sup>

**PNEC (Predicted No Effect Concentration)** No information available

**DNEL (Derived No Effect Level)** No information available

**Biological Limit Values** No information available

### 8.2. Exposure controls

**Engineering Measures** Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

### Personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear suitable protective clothing.

**Hand Protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal hazards** None known. Wear suitable protective clothing.

**Hygiene Measures** Follow general hygiene considerations recognized as common good workplace practices. The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc.

**Environmental Exposure Controls** Dispose of in accordance with local regulations.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance:

**Physical State** Solid Powder

**Color** White

**Odor** Odorless

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pH:	8.4-10.2 (5% water suspension)
Melting point / Freezing point	Not applicable
Initial boiling point	No information available
Freezing Point	Not applicable
Flash Point	Non-combustible
Flammability	Not applicable
Upper flammability limit:	--
Lower flammability limit:	--
Vapor Pressure	Not applicable
Relative Vapor Density	Not applicable
Relative Vapor Density	Not applicable
Density	2.4 g/cm <sup>3</sup> , 20°C
Relative Density	
Water Solubility	Insoluble
Partition coefficient	Not applicable
Autoignition Temperature	Not applicable
Decomposition Temperature	200° C
Viscosity	No information available.
Kinematic viscosity	Not applicable
Oxidizing Properties	Not applicable
Particle Characteristics	No information available
VOC Content (%)	Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

Not applicable

## SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No specific hazard known
10.4. Conditions to avoid	Incompatible materials Dust formation
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None known

## SECTION 11: Toxicological information

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### General Information

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

### 11.1. Information on toxicological effects

#### Aluminum Hydroxide

Oral LD50

&gt; 2000 mg/kg Rat

IARC

Not Listed

#### Flame Retardant Synergist

LD50s and LC50s

2000 mg/m<sup>3</sup> Inhalation LC50 Rat 4 h

#### Acute Toxicity

Based on available data, the classification criteria are not met.

#### Respiratory Sensitization

Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Skin Corrosion/Irritation

Based on available data, the classification criteria are not met.

#### Skin Sensitization

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Reproductive Toxicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Specific target organ toxicity - Single exposure

Based on available data, the classification criteria are not met.

#### Specific target organ toxicity - Repeated exposure

Based on available data, the classification criteria are not met.

### Information on Likely Routes of Exposure

#### Inhalation

Do not breathe dust  
Inhalation of dust in high concentration may cause irritation of respiratory system

#### Ingestion

Ingestion is not a likely route of exposure

#### Skin

Prolonged or repeated contact may dry skin and cause irritation

#### Eyes

Dust contact with the eyes can lead to mechanical irritation

#### Aspiration hazard

Not an expected route of exposure.

### 11.2. Information on other hazards

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**11.2.1. Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors

**11.2.2. Other information** Not applicable

## SECTION 12: Ecological information

**12.1. Toxicity** Not considered to be harmful to aquatic life

### Aluminum Hydroxide

**WGK Classification (AwSV)** 5220. WGK: nwg

**12.2. Persistence and degradability** No data available.

**12.3. Bioaccumulative potential** No data available.

**Partition coefficient** Not applicable

**Bioconcentration factor (BCF)** No data available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** No data available.

**12.6. Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal Methods** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Waste codes** Waste codes should be assigned by the user based on the application for which the product was used

### Aluminum Hydroxide

**European Waste Catalog** 060299

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WGK Classification (AwSV) 5220. WGK: nwg

## SECTION 14: Transport information

### Mode of Transportation (Road, Water, Air, Rail)

TDG -Canada	Not regulated
DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

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. Maritime transport in bulk according to IMO instruments  
Not applicable

## SECTION 15: Regulatory information

### Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Taiwan	Philippines (PICCS)	TSCA: United States
Aluminum Hydroxide	21645-51-2	244-492-7	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	55-1-02595	Y	Y	Y	A
Flame Retardant Synergist	Trade Secret	Y	Y	Y	Y	Y	Present	Y	55-1-06094	Y	Y	Y	A

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### US Federal Regulations

#### EPA

##### Aluminum Hydroxide

CERCLA

Not listed

SARA 302

Not listed

##### **CWA (Clean Water Act)**

Not regulated

##### **CAA (Clean Air Act)**

Not regulated

### U.S. State Right-to-Know Regulations

Chemical Name	CAS NUMBER:	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Aluminum Hydroxide	21645-51-2	N	N	N	N	N
Flame Retardant Synergist	Confidential	N	Y	Y	3325	Y

#### **California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This product does not contain any Proposition 65 chemicals

### CANADA

#### **WHMIS**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

## SECTION 16: Other information

**Prepared by**Huber Engineered Materials (HEM) Global Regulatory Affairs  
regulatory.affairs@huber.com**Issue Date**

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**Reason for Version**

OSHA (Occupational Safety and Health Administration of the US Department of Labor).

**Training Advice**

Do not handle until all safety precautions have been read and understood

**Abbreviations and acronyms**

IARC (International Agency for Research on Cancer)  
 IATA (International Air Transport Association)  
 IMDG (International Maritime Dangerous Goods)  
 IUCLID (International Uniform Chemical Information Database)  
 WHMIS (Workplace Hazardous Materials Information System)  
 DOT (Department of Transportation)  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 TWA (Time-Weighted Average)  
 CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))

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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)  
RQ (Reportable Quantity) (RQ/% in mixture)  
STEL (Short Term Exposure Limit)  
TLV® (Threshold Limit Value)  
DNEL (Derived No Effect Level)  
SVHC (Substances of Very High Concern)  
BOD (Biochemical oxygen demand)  
COD (Chemical oxygen demand)  
ICAO (International Civil Aviation Organization)  
IMDG (International Maritime Dangerous Goods)  
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)  
SCBA (Self-Contained Breathing Apparatus) Positive Pressure  
GHS (Globally Harmonized System)  
SARA (Superfund Amendments and Reauthorization Act of 1986)  
TSCA (Toxic Substances Control Act)

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**