



# Safety Data Sheet

ADVANCED MATERIALS

HYMOD® SB432 ST1

GHS (Globally Harmonized System)

Issue Date 31/Jan/2023  
Print Date 31/Jan/2023

Revision Number 1.3

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

### 1.1. Product identifier

Product Name: HYMOD® SB432 ST1

Chemical Name	CAS Number	EU REACH registration number	TSCA: United States	GHS Classification	Weight-%
Aluminum Hydroxide	21645-51-2	01-2119529246-39	A	Not classified.	-
Surface Treatment			Y	Not classified.	-

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

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known.

### 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.hubermaterials.com](http://www.hubermaterials.com)

E-mail [huber.europe@huber.com](mailto:huber.europe@huber.com)

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

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

#### Hazards identification

Physical Hazard Not classified.

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**Health Hazards** Not classified

**Environmental Hazard** Not classified.

### 2.2. Label elements

**Symbols/Pictograms** None

**Signal Word** None

### Precautionary Statements

**Prevention** Employ good industrial hygiene practice  
Do not breathe dust

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

**Storage** Keep in a dry place.

**Disposal** Dispose of contents/containers in accordance with local regulations. See Section 13: DISPOSAL CONSIDERATIONS.

**2.3. Other hazards** No information available.

## SECTION 3: Composition/information on ingredients

Chemical Name	CAS Number	EU REACH registration number	GHS Classification	Weight-%
Aluminum Hydroxide	21645-51-2	01-2119529246-39	Not classified.	-
Surface Treatment		Exempt	Not classified.	-

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General Advice** When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Eye Contact** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash with plenty of soap and water.

**Inhalation** Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion** Rinse mouth thoroughly with water.

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<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Notes to Physician</b>	Treat symptomatically.
<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>	Treat symptomatically. 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**

Use extinguishing agent suitable for type of surrounding fire. 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

Non-combustible.

### 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.

## 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

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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  
Ensure adequate ventilation  
Handle in accordance with good industrial hygiene and safety practice  
Use personal protective equipment as required

**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

**Exposure Limits** Provide adequate ventilation as well as local exhaust at critical locations

### Aluminum Hydroxide

ACGIH

OSHA

Mexico

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

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

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

Not established

### Surface Treatment

ACGIH

OSHA

Mexico

10 mg/m<sup>3</sup> (total)

Not established

No se ha establecido

### **Engineering Measures**

Do not handle until all safety precautions have been read and understood  
Ensure adequate ventilation, especially in confined areas  
Provide a good standard of controlled ventilation (10 to 15 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 goggles with side protection

#### **Skin and Body Protection**

Wear suitable protective clothing

#### **Hand Protection**

Protective gloves

#### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use

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appropriate certified respirators.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**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
Odor Threshold	No information available
pH:	8.4-10.2 (5% water suspension)
Melting point / Freezing point	Not applicable
Freezing Point	Not applicable
Flash Point	Non-combustible
Evaporation Rate	Not determined.
Flammability (solid, gas)	Not applicable
Upper flammability limit:	--
Lower flammability limit:	--
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Density	No data available
Relative Density	2.4 g/cm <sup>3</sup> , 20° C
Water Solubility	Insoluble
Partition coefficient	Not applicable
Autoignition Temperature	Not applicable
Decomposition Temperature	392 °F (200 °C)
Viscosity	Not applicable.
Kinematic viscosity	Not applicable
Oxidizing Properties	Not applicable
Particle Size	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

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<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	No specific hazard known
<b>10.4. Conditions to avoid</b>	Incompatible materials Dust formation
<b>10.5. Incompatible materials</b>	Strong acids
<b>10.6. Hazardous decomposition products</b>	None known

**SECTION 11: Toxicological information**

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

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Aluminum Hydroxide

Oral LD50 > 2000 mg/kg Rat  
Inhalation LC50 Rat > 2.3 mg/l (Al<sub>2</sub>O<sub>3</sub>) Aerosol Maximum attainable concentration  
IARC Not Listed

Surface Treatment

Dermal LD50 >5000 mg/kg (rabbit)

<b>Acute Toxicity</b>	Not classified
<b>Chronic Effects</b>	Not classified.
<b>Respiratory Sensitization</b>	Does not cause sensitization
<b>Serious eye damage/eye irritation</b>	May cause temporary eye irritation
<b>Skin Corrosion/Irritation</b>	Prolonged or repeated contact may dry skin and cause irritation
<b>Skin Sensitization</b>	Does not cause sensitization
<b>Germ cell mutagenicity</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>	No known carcinogens are present at greater than 0.1%.
<b>Specific target organ toxicity - Single exposure</b>	Not classified.

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**Specific target organ toxicity - Repeated exposure** Not classified.

### Information on Likely Routes of Exposure

<b>Inhalation</b>	Avoid inhalation of the product
<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Skin</b>	Prolonged or repeated contact may dry skin and cause irritation
<b>Eyes</b>	Dust contact with the eyes can lead to mechanical irritation
<b>Aspiration hazard</b>	Not an expected route of exposure.

### 11.2. Information on other hazards

**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

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

**SECTION 14: Transport information**

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

- TDG -Canada** Not regulated
- DOT** Not regulated
- IATA** Not regulated
- IMDG/IMO** Not regulated
- ICAO** Not regulated

- 14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments**  
Not applicable



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### 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	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51-2	244-492-7	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	55-1-02594	Y	Y	Y	A
Surface Treatment		*	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y

Legend X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

##### REACH No.

##### Aluminum Hydroxide

EU REACH registration number 01-2119529246-39  
Turkish KKDİK pre-registration 05-0000193352-73-0000

##### Germany

##### Aluminum Hydroxide

WGK Classification (AwSV) 5220 WGK: nwg

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

### SECTION 16: Other information

##### Prepared by

CP Kelco Global Regulatory Affairs  
Email: Regulatory.Affairs@cpkelco.com.

##### GHS Classification

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

##### Symbols/Pictograms

None

##### Signal Word

None

##### Hazard Statements

None

##### Hazards identification

##### Physical Hazard

Not classified

##### Health Hazards

Not classified

##### Environmental Hazard

Not classified

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### 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))  
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**