



ADVANCED MATERIALS

## HYMOD® SB-136 SG

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

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

Revision Number 1.3  
Page 1 of 10

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	HYMOD® SB-136 SG
<b>Chemical Name</b>	Aluminum Hydroxide
<b>Pure substance/mixture</b>	Mixture
<b><u>Aluminum Hydroxide</u></b>	
CAS Number	21645-51-2
Weight-%	-
<b><u>Surface treatment</u></b>	
CAS Number	-
Weight-%	1-2
<b>Recommended Use</b>	Flame retardant Smoke suppressant
<b>Uses advised against</b>	None known
<b>Company:</b>	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300
<b>Emergency Telephone</b>	CHEMTREC: 1 800 424 9300 or International +1 703 527 3887
<b>E-mail</b>	hubermaterials@huber.com
<b>Internet</b>	www.hubermaterials.com

### Section 2: HAZARDS IDENTIFICATION

<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

# Safety Data Sheet

## HYMOD® SB-136 SG

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

Revision Number 1.3  
Page 2 of 10

### Precautionary Statements

<b>Prevention</b>	Employ good industrial hygiene practice Wash hands thoroughly after handling
<b>Response</b>	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
<b>Spills and Leaks</b>	Collect spillage
<b>Storage</b>	Store in a dry place Store away from incompatible materials.
<b>Disposal</b>	Dispose in accordance with local, state and national regulations
<b>General Advice</b>	None 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
<b>Additional Information:</b>	None.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture                      Mixture

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	EU REACH registration number	Weight-%
Aluminum Hydroxide	21645-51-2	Y	Not classified	A	01-2119529246-39	-
Surface treatment	-	Y		A	Registered	1-2

## Section 4: FIRST AID MEASURES

<b>General Advice</b>	None 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
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, call a physician
<b>Skin Contact</b>	Wash skin with soap and water
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

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

Revision Number 1.3  
Page 3 of 10

<b>Ingestion</b>	Rinse mouth with water. Do not induce vomiting.
<b>Notes to Physician</b>	Treat symptomatically
<b>Personal Protective Equipment For First Aid Responders</b>	Wear suitable protective clothing IF exposed or concerned: Get medical advice/attention
<b>Expected acute symptoms and delayed symptoms</b>	None known

## Section 5: FIRE FIGHTING MEASURES

<b>Flammable Properties</b>	None known
<b>Suitable Extinguishing Media</b>	Water spray (fog) Foam Dry chemical Carbon dioxide (CO2)
<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>	Ensure adequate ventilation Use personal protection recommended in Section 8 Avoid dust formation Keep unauthorized personnel away
<b>Environmental Precautions</b>	Avoid runoff to waterways and sewers
<b>Methods for cleaning up</b>	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
<b>Other Information:</b>	None known

## Section 7: HANDLING AND STORAGE

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

Revision Number 1.3  
Page 4 of 10

**Handling** Minimize dust generation and accumulation. Provide local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice.

**Storage** Store in a dry area. Keep containers closed and protect from physical damage.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

### 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

**Engineering Measures** Ensure adequate ventilation, especially in confined areas  
Provide a good standard of controlled ventilation (10 to 15 air changes per hour)

### Personal Protective Equipment

#### **Eye/Face Protection**

Wear safety glasses with side shields (or goggles)

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

Wear suitable protective clothing

#### **Hand Protection**

Impervious gloves

#### **Respiratory Protection**

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

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice 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

### Information on basic physical and chemical properties

#### Appearance:

<b>Physical State</b>	Solid
<b>Color</b>	White
<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>	Not applicable
<b>Boiling Point</b>	No information available
<b>Flash Point</b>	Non-combustible.
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper flammability limit:</b>	
<b>Lower flammability limit:</b>	

Issue Date 31/Jan/2023  
Print Date 31/Jan/2023Revision Number 1.3  
Page 5 of 10

Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	2.4 g/cm <sup>3</sup> , 20° C
Water Solubility	Insoluble
Solubility in other solvents	No information available
Partition coefficient	Not applicable Not applicable Product/Substance is inorganic
Autoignition Temperature	Not applicable
Decomposition Temperature	200 °C (392 °F)
Viscosity	Not applicable.
Explosive Properties	Not applicable
Oxidizing Properties	Not oxidizing
VOC Content (%)	Not applicable

## Section 10: STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to avoid:	None known
Incompatible materials	Strong acids
Hazardous decomposition products	None under normal processing
Hazardous Reactions	None under normal processing
Hazardous polymerization:	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>Eyes</b>	Avoid contact with eyes Dust contact with the eyes can lead to mechanical irritation
<b>Skin</b>	Avoid contact with skin and clothing Prolonged exposure may cause skin irritation
<b>Inhalation</b>	Avoid inhalation of the product
<b>Ingestion</b>	Ingestion is not a likely route of exposure

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

**Revision Number** 1.3  
**Page** 6 of 10

**Aspiration hazard** Not an expected route of exposure.  
**Symptoms** 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>	Based on available data, the classification criteria are not met
<b>Respiratory Sensitization</b>	Based on available data, the classification criteria are not met
<b>Skin Corrosion/Irritation</b>	Prolonged or repeated contact may dry skin and cause irritation
<b>Skin Sensitization</b>	Based on available data, the classification criteria are not met
<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>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Target Organ Effects</b>	No information available.
<b>Specific target organ toxicity - Single exposure</b>	No information available.
<b>Specific target organ toxicity - Repeated exposure</b>	No information available.
<b>Mixture versus substance information</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity** Not considered to be harmful to aquatic life. Avoid release to the environment.

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

Revision Number 1.3  
Page 7 of 10

<b>Persistence/Degradability:</b>	Not readily biodegradable.
<b>Bioaccumulative Potential</b>	No data available.
<b>Partition coefficient</b>	Not applicable
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>Mobility in soil</b>	None.
<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>	None known

## 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 or disposal.

## Section 14: TRANSPORT INFORMATION

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

<b>DOT</b>	Not regulated
<b>ADR</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADN</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>ICAO</b>	Not regulated

<b>14.1. UN number</b>	None
<b>14.2. UN proper shipping name</b>	None
<b>14.3. Transport hazard class(es)</b>	None
<b>14.4. Packing group</b>	None
<b>14.5. Environmental hazards</b>	No
<b>14.6. Special precautions for user</b>	Not applicable
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	

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**Safety Data Sheet**  
HYMOD® SB-136 SG

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

Revision Number 1.3  
Page 8 of 10

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	EU REACH registration number	Australia (AIC)	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	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Y	A
Surface treatment	-	Y	Registered	Y	Y	Y	Y	Y	Y	Y	Y	Y	A

**Legend**

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



## 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>	<p>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)          SCBA (Self-Contained Breathing Apparatus) Positive Pressure          GHS (Globally Harmonized System)          ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)          RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)          SARA (Superfund Amendments and Reauthorization Act of 1986)          TSCA (Toxic Substances Control Act)</p>

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**Safety Data Sheet**  
HYMOD® SB-136 SG

**Issue Date** 31/Jan/2023

**Print Date** 31/Jan/2023

**Revision Number** 1.3

**Page 10 of 10**

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**End of Safety Data Sheet**