



**HYMOD® SB-136 SG**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006  
COMMISSION REGULATION (EU) No. 2020/878

Issue Date: 07/03/2024

Print Date: 12/03/2024

Revision Number: 1.3.1

Page 1 of 11

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

### **1.1. Product identifier**

**Product Name:** HYMOD® SB-136 SG

**Chemical Name** Aluminum Hydroxide

**Pure substance/mixture** Mixture

### **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**

**Manufacturer** 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  
EU Phone: +49-2271-90.22.78 (Germany)

**Poison control centre phone number** National Anti-Poison Center UK: +44 844 892 0111 (National Poisons Information Service)

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

(CLP) Regulation (EC 1272/2008) Not classified

#### **Hazards identification**

**Physical Hazard** Not classified

**Health Hazards** Not classified

**Environmental Hazard** Not classified

# Safety Data Sheet

HYMOD® SB-136 SG

Issue Date: 07/03/2024

Print Date: 12/03/2024

Revision Number: 1.3.1

Page 2 of 11

## 2.2. Label elements

Symbols/Pictograms None

Signal Word None

Hazard Statements None

## Precautionary Statements

**Prevention** Employ good industrial hygiene practice  
Wash hands thoroughly after handling

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

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

**Additional Information:** None.

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Mixture

Chemical Name	CAS Number	EC No	(CLP) Regulation (EC 1272/2008)	Weight-%
Aluminium hydroxide	21645-51-2	244-492-7	Not classified.	-
Surface treatment	-	Y	67/548/EEC: Xi, R38, S24, S37.	<1

## 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.

# Safety Data Sheet

HYMOD® SB-136 SG

Issue Date: 07/03/2024

Print Date: 12/03/2024

Revision Number: 1.3.1

Page 3 of 11

<b>Skin Contact</b>	Wash with plenty of soap and water.
<b>Inhalation</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<b>Aspiration hazard</b>	Not an expected route of exposure.
<b>Notes to Physician</b>	Treat symptomatically.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Signs and symptoms may include coughing, gasping, choking and difficulty breathing.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Treatment should be symptomatic and supportive.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media**Water spray (fog). Foam. Dry chemical. 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**

In case of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

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

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

# Safety Data Sheet

HYMOD® SB-136 SG

Issue Date: 07/03/2024

Print Date: 12/03/2024

Revision Number: 1.3.1

Page 4 of 11

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

**For emergency responders** Keep unauthorised 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** Minimise dust generation and accumulation  
Provide local exhaust ventilation  
Handle in accordance with good industrial hygiene and safety practice

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

**7.3. Specific end use(s)** flame retardant.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Aluminium hydroxide

ACGIH	TLV/TWA 8-hr: 1 mg/m <sup>3</sup> (respirable fraction)
OSHA	TWA: 15 mg/m <sup>3</sup> (Total Dust) 5 mg/m <sup>3</sup> (Respirable Dust)
NIOSH (National Institute for Occupational Safety and Health)	TWA: 5 mg/m <sup>3</sup> (respirable dust); 10 mg/m <sup>3</sup> TWA (total dust)
France	Not established (Non établi)
France	Not established (Non établi)
Poland	2.5 mg/m <sup>3</sup> (inhalable); 1.2 mg/m <sup>3</sup> (respirable)
Switzerland	TWA: 3 mg/m <sup>3</sup>
United Kingdom	10 mg.m-3 (inhalable); 4 mg.m-3 (respirable)

**Recommended monitoring procedures** Refer also to national guidance documents for information on currently recommended monitoring procedures

**Biological Limit Values:** None

**Derived No Effect Level (DNEL)** Consumer - oral, long-term - local and systemic 4.74 mg/kg bw/d Worker -

# Safety Data Sheet

**HYMOD® SB-136 SG****Issue Date:** 07/03/2024**Print Date:** 12/03/2024**Revision Number:** 1.3.1**Page** 5 of 11inhalative, long-term - local and systemic 10.74 mg/m<sup>3</sup>

## 8.2. Exposure controls

### 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.

#### Thermal hazards

None known.

#### Hygiene Measures

Follow general hygiene considerations recognised 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

##### Colour

White

##### Odour

Odourless

##### Odour Threshold

No information available

##### pH:

8.4-10.2 (5% water suspension)

##### Melting point / Freezing point

Not applicable

##### Boiling Point

No information available

##### Freezing Point

Not applicable

##### Flash Point:

Non-combustible

##### Evaporation Rate

Not applicable.

##### Flammability (solid, gas)

Not applicable

##### Upper flammability limit:

--

##### Lower flammability limit

--

##### Vapour Pressure

Not applicable

##### Vapour Density

Not applicable

##### Vapour Density

Not applicable

##### Density

No data available

##### Relative Density

2.4 g/cm<sup>3</sup>, 20° C

# Safety Data Sheet

HYMOD® SB-136 SG

Issue Date: 07/03/2024

Print Date: 12/03/2024

Revision Number: 1.3.1

Page 6 of 11

<b>Water Solubility</b>	Insoluble
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	Not applicable Not applicable Product/Substance is inorganic
<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	200 °C (392 °F)
<b>Viscosity</b>	Not applicable.
<b>Kinematic viscosity</b>	Not applicable
<b>Explosive Properties</b>	Not applicable
<b>Oxidising Properties</b>	Not oxidizing
<b>Particle Size</b>	No information available
<b>VOC Content (%)</b>	Not applicable

## 9.2. Other information

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

Not applicable

### 9.2.2. Other safety characteristics

Not applicable

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	None
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	None under normal processing
<b>10.4. Conditions to avoid</b>	Incompatible materials
<b>10.5. Incompatible materials</b>	Strong acids
<b>10.6. Hazardous decomposition products</b>	None known

## SECTION 11: Toxicological information

<b>General Information</b>	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

#### Aluminium hydroxide

<b>Oral LD50</b>	> 2000 mg/kg Rat
<b>Inhalation LC50</b>	Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration
<b>IARC</b>	Not Listed

# Safety Data Sheet

**HYMOD® SB-136 SG****Issue Date:** 07/03/2024**Print Date:** 12/03/2024**Revision Number:** 1.3.1**Page** 7 of 11

<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>Respiratory Sensitisation</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>Skin Corrosion/Irritation</b>	Prolonged or repeated contact may dry skin and cause irritation
<b>Skin Sensitisation</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
<b>Information on Likely Routes of Exposure</b>	
<b>Inhalation</b>	Avoid inhalation of the product
<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Skin</b>	Avoid contact with skin and clothing Prolonged exposure may cause skin irritation
<b>Eyes</b>	Avoid contact with eyes 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

# Safety Data Sheet

HYMOD® SB-136 SG

Issue Date: 07/03/2024

Print Date: 12/03/2024

Revision Number: 1.3.1

Page 8 of 11

11.2.2. Other information Not applicable

## SECTION 12: Ecological information

12.1. Toxicity Not considered to be harmful to aquatic life

### Aluminium hydroxide

WGK Classification (AwSV) 5220 WGK: nwg

12.2. Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential No data available.

Partition coefficient Not applicable

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil None.

12.5. Results of PBT and vPvB assessment This substance does not meet the criteria for classification as PBT or vPvB.

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

12.7 Other Adverse Effects None known

## 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 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

### Aluminium hydroxide

European Waste Catalogue (EWC) N0. 060299.

WGK Classification (AwSV) 5220 WGK: nwg



# Safety Data Sheet

HYMOD® SB-136 SG

Issue Date: 07/03/2024

Print Date: 12/03/2024

Revision Number: 1.3.1

Page 9 of 11

## 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

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	South Korea (KECL)	Mexico	Thailand (TECI)	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminium 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	A

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

REACH No. \_\_\_\_\_

# Safety Data Sheet

**HYMOD® SB-136 SG****Issue Date:** 07/03/2024**Print Date:** 12/03/2024**Revision Number:** 1.3.1**Page 10 of 11****Aluminium hydroxide****REACH registration number** 01-2119529246-39**Turkish KKDIK pre-registration** 05-0000193352-73-0000**Surface treatment****REACH registration number** Registered**Germany**

Not considered to be harmful to aquatic life

**Aluminium 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

**Reason for Revision**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 &amp; COMMISSION REGULATION (EU) No. 2020/878

**Issue Date:**

07/03/2024

**Print Date:**

12/03/2024

**Revision Number:**

1.3.1

**Prepared by**Huber Engineered Materials Global Regulatory Affairs  
email: regulatory.affairs@huber.com.**(CLP) Regulation (EC 1272/2008)** Not classified**Labelling****Symbols/Pictograms**

None

**Signal Word**

None

**Hazard Statements**

None.

**Training Advice**

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

**Abbreviations and acronyms**International Agency for Research on Cancer (IARC)  
International Uniform Chemical Information Database (IUCLID)  
Workplace Hazardous Materials Information System (WHMIS) status and classification  
OSHA (Occupational Safety and Health Administration of the US Department of Labour)  
TWA - Time-Weighted Average  
The Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)  
PPE - Personal Protection Equipment  
NIOSH - National Institute for Occupational Safety and Health  
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)

# Safety Data Sheet

**HYMOD® SB-136 SG**

**Issue Date:** 07/03/2024

**Print Date:** 12/03/2024

**Revision Number:** 1.3.1

**Page 11 of 11**

SVHC: Substances of Very High Concern for Authorisation:

Biochemical oxygen demand (BOD)

Chemical oxygen demand (COD)

ICAO (air)

(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)

International Air Transport Association (IATA)

International Maritime Dangerous Goods (IMDG)

DOT (Department of Transportation)

TDG (Transport of Dangerous Goods) Canada

Predicted No Effect Concentration (PNEC)

Positive Pressure Self-Contained Breathing Apparatus (SCBA)

Globally Harmonised System (GHS)

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**