



# Safety Data Sheet

ADVANCED MATERIALS

## Hymod® SB336-SE

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

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

### 1.1. Product identifier

Product Name: Hymod® SB336-SE

| Chemical Name      | CAS Number | EC No     | EU REACH registration number | (CLP) Regulation (EC 1272/2008) | Weight-% |
|--------------------|------------|-----------|------------------------------|---------------------------------|----------|
| Aluminum Hydroxide | 21645-51-2 | 244-492-7 | 01-2119529246-39             | Not classified                  | -        |
| Surface Treatment  |            | Present   |                              | Not classified                  | <1       |

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

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

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

Poison control center 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

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Health Hazards Not classified

Environmental Hazard Not classified

**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.

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

## SECTION 3: Composition/information on ingredients

| Chemical Name      | CAS Number | EC No     | EU REACH registration number | (CLP) Regulation (EC 1272/2008) | Annex | Weight-% |
|--------------------|------------|-----------|------------------------------|---------------------------------|-------|----------|
| Aluminum Hydroxide | 21645-51-2 | 244-492-7 | 01-2119529246-39             | Not classified                  | --    | -        |
| Surface Treatment  |            | Present   |                              | Not classified                  | --    | <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.

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

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|  |   |
|--|---|
| <b>Inhalation</b>  | Do not breathe dust. IF INHALED: Remove 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>   | 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.

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**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  
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

### 8.1. Control parameters

#### Occupational exposure limits

##### Aluminum Hydroxide

|                |   |
|----------------|---|
| ACGIH          | TLV/TWA 8-hr: 1 mg/m <sup>3</sup> (respirable fraction)                           |
| OSHA           | TWA: 15 mg/m <sup>3</sup> Total Dust<br>5 mg/m <sup>3</sup> Respirable Dust       |
| NIOSH          | 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

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**8.2. Exposure controls****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 glasses with side shields (or goggles).

**Skin and Body Protection**

Wear suitable protective clothing.

**Thermal hazards**

None known.

**Hygiene Measures**

Follow general hygiene considerations recognized as common good workplace practices

**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          | No information available       |
| Autoignition Temperature       | No data available              |
| Decomposition Temperature      | 392 °F (200 °C)                |
| Viscosity                      | No information available.      |
| Kinematic viscosity            | Not applicable                 |
| Oxidizing Properties           | Not applicable                 |
| Particle Size                  | No information available       |

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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**

|   |                                       |
|---|---------------------------------------|
| <b>10.1. Reactivity</b>                         | Stable under normal conditions        |
| <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>             | None known                            |
| <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**

|                        |   |
|------------------------|---|
| <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  |

**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    |

**Aspiration hazard** 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.

**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

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## 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

## 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  |            | Present   | Y               | Present (DSL) | Present       | Present             | Present         |        |                 | Present     | Present             |        | Y                   |

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

#### Aluminum Hydroxide

EU REACH registration number 01-2119529246-39

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Turkish KKDIK pre-registration 05-0000193352-73-0000

## Aluminum Hydroxide

WGK Classification (AwSV) 5220 WGK: nwg

### 15.2. Chemical safety assessment

## SECTION 16: Other information

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

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**Prepared by** Huber Engineered Materials Global Regulatory Affairs  
email: regulatory.affairs@huber.com.

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

### Labeling

**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

IARC (International Agency for Research on Cancer)  
IUCLID (International Uniform Chemical Information Database)  
WHMIS (Workplace Hazardous Materials Information System)  
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)  
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)  
IATA (International Air Transport Association)  
IMDG (International Maritime Dangerous Goods)  
DOT (Department of Transportation)  
TDG (Transport of Dangerous Goods) Canada  
PNEC (Predicted No Effect Concentration)  
SCBA (Self-Contained Breathing Apparatus) Positive Pressure  
GHS (Globally Harmonized System)

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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**