

### HYMOD® SB-432 SG

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® SB-432 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	MARTINSWERK GmbH Kölner Strasse 110 50127 Bergheim Germany Tel. : +49-2271-90.22.78 Fax. : +49-2271-90.27.17
Internet	www.huberadvancedmaterials.com
Contact E-Mail	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 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.
Additional Information:	None.
2.3. Other hazards	No information available.

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substance Not applicable

3.2. Mixture Mixture

Chemical Name	CAS Number	EC No	(CLP) Regulation (EC 1272/2008)	Weight-%
Aluminum Hydroxide	21645-51-2	244-492-7	Not classified.	>99
Surface Treatment	Trade Secret	Y	Skin Irritant Category 2;	<1
			H315.	

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

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

treatment needed

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable Extinguishing Media Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).

### 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.

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

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)
	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)

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Recommended monitoring procedures	Refer also to national guidance documents for information on currently recommended monitoring procedures
<b>Biological Limit Values</b>	None
DNEL (Derived No Effect Level)	Consumer - oral, long-term - local and systemic 4.74 mg/kg bw/day Worker - inhalative, 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 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
Color	White
Odor	Odorless
Odor 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:	

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Lower flammability limit:	
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Vapor Density	Not applicable
Density	No data available
Relative Density	2.4 g/cm3, 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.
Kinematic viscosity	Not applicable
Explosive Properties	Not applicable
Oxidizing Properties	Not oxidizing
Particle Size	No information available
VOC Content (%)	Not applicable
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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	None
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	None under normal processing
10.4. Conditions to avoid	Incompatible materials
10.5. Incompatible materials	Strong acids
10.6. Hazardous decomposition products	None known

# **SECTION 11: Toxicological information**

**General Information** 

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

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

Aluminum Hydroxide Oral LD50 Inhalation LC50 IARC	> 2000 mg/kg Rat Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration Not Listed	
Acute Toxicity	Based on available data, the classification criteria are not met	
Chronic Toxicity	Based on available data, the classification criteria are not met.	
Chronic Effects	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	Prolonged or repeated contact may dry skin and cause irritation	
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	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.	
Target Organ Effects	No information available.	
Specific target organ toxicity - Single exposure	No information available.	
Specific target organ toxicity - Repeated exposure	No information available.	
Mixture versus substance information	No information available	
Information on Likely Routes of Exposure		
Inhalation	Avoid inhalation of the product	
Ingestion	Ingestion is not a likely route of exposure	
Skin	Avoid contact with skin and clothing Prolonged exposure may cause skin irritation	
Eyes	Avoid contact with eyes Dust contact with the eyes can lead to mechanical irritation	
Aspiration hazard	Not an expected route of exposure.	

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#### 11.2. Information on other hazards

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

**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	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.

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Waste codes should be assigned by the user based on the application for which Waste codes 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
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
ΙΑΤΑ	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 Not applicable user

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**

#### Mixture Pure substance/mixture

IVI	IXI	u	re

Chemical Name	CAS Number	EC No	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)	-	Philippine s (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51- 2	244-492-7	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	55-1-0259 4	Y	Y	Y	A

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Surface	Trade	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	A
Treatment	Secret												
X / V: Com		otivo · / N	I. Evomot	/ Not Listo								·	

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

### REACH No.

Aluminum Hydroxide EU REACH registration number 01-2119529246-39 Turkish KKDIK pre-registration 05-0000193352-73-0000 Surface Treatment EU REACH registration number Registered

Germany Not considered to be harmful to aquatic life Aluminum Hydroxide WGK Classification (AwSV) 5220 WGK: nwg

### 15.2. Chemical safety assessment

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A Chemical Safety Assessment is not required for this substance

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# **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))

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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) 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