Safety Data Sheet



HYMOD® SB-432 SG

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

Issue Date 16/Aug/2022 Revision Number 1.3.1 Print Date 16/Aug/2022

Page 1 of 10

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

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	-	Y	Registered	67/548/EEC: Xi, R38, S24, S37	<1

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

Flame retardant Smoke suppressant **Recommended Use**

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

MARTINSWERK GmbH Company:

> Kölner Strasse 110 50127 Bergheim

Germany

Tel.: +49-2271-90.22.78 Fax.: +49-2271-90.27.17

Internet www.hubermaterials.com

hubermaterials@huber.com E-mail

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

number EU Phone: +49-2271-90.22.78 (Germany)

Poison control center phone

number Information Service)

National Anti-Poison Center UK: +44 844 892 0111 (National Poisons

SECTION 2: Hazards identification

Safety Data Sheet HYMOD® SB-432 SG

Issue Date 16/Aug/2022 Revision Number 1.3.1
Print Date 16/Aug/2022 Page 2 of 10

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

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

DisposalDisposal 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

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	-	Y	Registered	67/548/EEC: Xi, R38, S24, S37		<1

SECTION 4: First aid measures

4.1. Description of first aid measures

Safety Data Sheet HYMOD® SB-432 SG

Issue Date 16/Aug/2022 **Revision Number** 1.3.1 Print Date 16/Aug/2022 Page 3 of 10

When in doubt or if symptoms are observed, get medical advice. Ensure that **General Advice**

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.

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

If breathing is difficult, remove victim to fresh air and keep at rest in a position Inhalation

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

Signs and symptoms may include coughing, gasping, choking and difficulty breathing.

and effects, both acute and

delayed

4.3. Indication of any immediate Treatment should be symptomatic and supportive.

medical attention and special

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.

Safety Data Sheet

Issue Date 16/Aug/2022 Revision Number 1.3.1
Print Date 16/Aug/2022 Page 4 of 10

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

7.2. Conditions for safe storage, Store away from incompatible materials **including any incompatibilities** 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/m³ (respirable fraction)

OSHA TWA: 15 mg/m³ Total Dust

5 mg/m³ Respirable Dust

NIOSH TWA: 5 mg/m³ (respirable dust); 10 mg/m³ TWA (total dust)

France Not established (Non établi)
France Not established (Non établi)

Poland 2.5 mg/m³ (inhalable); 1.2 mg/m³ (respirable)

Switzerland TWA: 3 mg/m³

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

Safety Data Sheet HYMOD® SB-432 SG

Issue Date 16/Aug/2022 Revision Number 1.3.1
Print Date 16/Aug/2022 Page 5 of 10

Biological Limit Values 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/m³

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

Flash Point Non-combustible Evaporation Rate Not applicable. Flammability (solid, gas) Not applicable

Upper flammability limit:

Lower flammability limit:

Vapor PressureNot applicableVapor DensityNot applicableRelative Density2.4 g/cm3, 20° CWater SolubilityInsoluble

Safety Data Sheet HYMOD® SB-432 SG

Issue Date 16/Aug/2022 Revision Number 1.3.1
Print Date 16/Aug/2022 Page 6 of 10

Solubility in other solvents No information available

Partition coefficient Not applicable Not applicable Product/Substance is inorganic

Not applicable

Autoignition TemperatureNot applicableDecomposition Temperature200 °C (392 °F)ViscosityNot applicableExplosive PropertiesNot applicableOxidizing PropertiesNot oxidizing

SECTION 10: Stability and reactivity

10.1. Reactivity None

10.2. Chemical stability Stable under normal conditions

10.3. Possibility of hazardous

reactions

VOC Content (%)

None under normal processing

10.4. Conditions to avoid Incompatible materials

10.5. Incompatible materials Strong acids

10.6. Hazardous decomposition None known

products

SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other

equivalent values.

Information on Likely Routes of Exposure

Inhalation Avoid inhalation of the product

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

Ingestion Ingestion is not a likely route of exposure

Aspiration hazard Not an expected route of exposure.

11.1. Information on toxicological effects

Aluminum Hydroxide

Safety Data Sheet HYMOD® SB-432 SG

Issue Date 16/Aug/2022 Revision Number 1.3.1
Print Date 16/Aug/2022 Page 7 of 10

Oral LD50 > 2000 mg/kg Rat

Inhalation LC50 Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration

IARC 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

SECTION 12: Ecological information

12.1. Ecotoxicity 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.

Safety Data Sheet HYMOD® SB-432 SG

Issue Date 16/Aug/2022 Revision Number 1.3.1
Print Date 16/Aug/2022 Page 8 of 10

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. 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

<u>Aluminum Hydroxide</u>

European Waste Catalog 060299

WGK Classification (AwSV) 5220 WGK: nwg

SECTION 14: Transport information

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

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

14.1. UN number None

14.2. UN proper shipping name None

Safety Data Sheet

HYMOD® SB-432 SG

Issue Date 16/Aug/2022

Print Date 16/Aug/2022

Revision Number 1.3.1

Page 9 of 10

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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 (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)		Philippine s (PICCS)		TSCA: United States
Aluminum Hydroxide	21645-51- 2	244-492-7	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Υ	55-1-0259 4	Y	Y	Υ	A
Surface treatment	-	Y	Y	Y	Y	Y	Υ	Y		Y	Y	Υ	Α

Legend 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

A Chemical Safety Assessment is not required for this substance

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

Safety Data Sheet HYMOD® SB-432 SG

Issue Date 16/Aug/2022 Revision Number 1.3.1
Print Date 16/Aug/2022 Page 10 of 10

 Issue Date
 16/Aug/2022

 Print Date
 16/Aug/2022

Revision Number 1.3.1

Prepared by Huber Engineered Materials Global Regulatory Affairs

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(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)

CERCLÀ (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