Safety Data Sheet



HYMOD® M9400 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® M9400 SG

Chemical Name Aluminum Hydroxide

Pure substance/mixture Mixture

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

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

Company: MARTINSWERK GmbH

Kölner Strasse 110 50127 Bergheim

Germany

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

Internet www.hubermaterials.com

E-mail hubermaterials@huber.com

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

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

number Information Service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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(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

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

Chemical Name	CAS Number	EC No	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			Registered	Not classified		1-2

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

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medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

In case of eye contact, remove contact lens and rinse immediately with plenty of Eye Contact

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.

Not an expected route of exposure. **Aspiration hazard**

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.

medical attention and special

treatment needed

4.3. Indication of any immediate 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 (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.

SECTION 6: Accidental release measures

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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

Minimize dust generation and accumulation

handling

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)

Russia 6 mg/m³ TWA (aerosol)

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

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Biological Limit Values: None

Derived No Effect Level (DNEL) 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: Not availableMelting point / Freezing point Not applicable

Boiling Point

Flash Point:

Evaporation Rate

Flammability (solid, gas)

No information available
Non-combustible.

Not applicable.

Not applicable

Upper flammability limit:

Lower flammability limit: Vapor Pressure

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

Solubility in other solvents No information available

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Not applicable Not applicable Product/Substance is inorganic Partition coefficient

Autoignition Temperature Not applicable 200 °C (392 °F) **Decomposition Temperature Viscosity** Not applicable. **Explosive Properties** Not applicable Not oxidizing **Oxidizing Properties** Not applicable **VOC Content (%)**

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 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

Not an expected route of exposure. **Aspiration hazard**

11.1. Information on toxicological effects

Aluminum Hydroxide

Oral LD50 > 2000 mg/kg Rat

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Inhalation LC50

IARC

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

Not Listed

Based on available data, the classification criteria are not met **Acute Toxicity**

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.

This product does not contain any carcinogens or potential carcinogens as listed Carcinogenicity

by OSHA, IARC or NTP.

No information available. **Target Organ Effects**

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.

Not applicable Partition coefficient

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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 MethodsDisposal 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

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 Not regulated DOT **ADR** Not regulated RID Not regulated 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

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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	New Zealand	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	Y	Y	Υ	A
Surface Treatment			Υ	Y	Y	Y	Y	Y	Y	Y	Υ	А

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

REACH No.

Aluminum Hydroxide

Surface Treatment

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 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 & COMMISSION REGULATION (EU) No. 2020/878

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Huber Engineered Materials Global Regulatory Affairs Prepared by

email: regulatory.affairs@huber.com.

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

Labeling

Symbols/Pictograms None

Signal Word None

Hazard Statements None

Do not handle until all safety precautions have been read and understood. **Training Advice**

International Agency for Research on Cancer (IARC) Abbreviations and acronyms

International Air Transport Association (IATA) International Maritime Dangerous Goods (IMDG)

International Uniform Chemical Information Database (IUCLID)

Workplace Hazardous Materials Information System (WHMIS) status and classification

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

DOT (Department of Transportation)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

TWA - Time-Weighted Average

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) 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)

Reportable Quantity (RQ) (RQ/% in mixture)

STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL)

SVHC: Substances of Very High Concern for Authorization:

Land transport (ADR/RID)

Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)

ICAO (air)

(IMDG) International Maritime Dangerous Goods

Positive Pressure Self-Contained Breathing Apparatus (SCBA)

Predicted No Effect Concentration (PNEC) Globally Harmonized System (GHS)

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