



**HYMOD® M9400 SP**

This material safety datasheet has been prepared according to Brazilian legislation and ABNT NBR 14725:2014 GHS (Globally Harmonized System)

**Issue Date** 26/Sep/2023  
**Print Date** 26/Sep/2023

**Revision Number** 1.3.1

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

**1.1. Product identifier**

**Product Name:** HYMOD® M9400 SP

**Chemical Name** Mixture

**Aluminum Hydroxide**

**CAS Number** 21645-51-2

**Weight-%** >99

**Proprietary Surface Treatment**

**CAS Number** Proprietary

**Weight-%** <1

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

**Recommended Use** Flame retardant

**Uses advised against** None known.

**1.3. Details of the supplier of the safety data sheet**

**Company:** 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)

**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

**SECTION 2: Hazards identification**

# Safety Data Sheet

## HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 2 of 11

the Brazilian Federal Department of Transportation's Administrative Ruling 204 from 5/20/1997.

### 2.1. Classification of the substance or mixture

Physical Hazards	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

<b>Prevention</b>	Employ good industrial hygiene practice Do not handle until all safety precautions have been read and understood Do not breathe dust Wear protective gloves/protective clothing/eye protection/face protection
<b>Response</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing 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 If swallowed, rinse mouth with water (only if the person is conscious) Drink plenty of water
<b>Storage</b>	Store away from incompatible materials Keep in a dry place
<b>Disposal</b>	Dispose of contents/containers in accordance with local regulations

## SECTION 3: Composition/information on ingredients

Chemical Name	CAS Number	TSCA: United States	EU REACH registration number	GHS Classification	Weight-%
Aluminum Hydroxide	21645-51-2	A	01-2119529246-39	Not classified.	>99
Proprietary Surface Treatment	Proprietary	A	Registered	Not classified.	<1

### Additional information

TSCA A: Component is listed on Inventory as Active

# Safety Data Sheet

HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 3 of 11

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General Advice</b>	Employ good industrial hygiene practice. Wear suitable protective clothing, gloves and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if symptoms are observed, get medical advice.
<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin Contact</b>	Wash with plenty of soap and water.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<b>Inhalation</b>	Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	May cause irritation to mucous membranes and respiratory tract. 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>	Treatment should be symptomatic and supportive. 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

**Flammable Properties** None known

### 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.

**Dust Explosion Hazard** None known

**Hazardous Combustion** None known

# Safety Data Sheet

## HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 4 of 11

### Products

#### 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. No special fire protection measures are necessary. Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

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

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

##### 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

Avoid exposure - obtain special instructions before use  
Do not handle until all safety precautions have been read and understood.  
Minimize dust generation and accumulation  
Do not breathe dust  
Ensure adequate ventilation  
Wear appropriate personal protective clothing to prevent skin contact  
Handle in accordance with good industrial hygiene and safety practice

#### 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

# Safety Data Sheet

## HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 5 of 11

### 8.1. Control parameters

#### Occupational exposure limits

##### Aluminum Hydroxide - 21645-51-2

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)
ACGIH	TLV/TWA 8-hr: 1 mg/m <sup>3</sup> (respirable fraction)
Mexico	Not established

**PNEC (Predicted No Effect Concentration)** No information available

**Biological Limit Values** No information available

### 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.

**Hand Protection** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**Thermal hazards** None known. Wear suitable protective clothing.

**Hygiene Measures** No information available.

**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

<b>Physical State</b>	Solid.
<b>Color</b>	White
<b>Odor</b>	Odorless

# Safety Data Sheet

## HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 6 of 11

<b>Odor Threshold</b>	No information available
<b>pH:</b>	8.4 - 10.2 (5% water suspension)
<b>Melting point / Freezing point</b>	Not available
<b>Melting Point / Melting Range</b>	Decomposition occurs prior to melting.
<b>Initial boiling point</b>	Not available
<b>Boiling Point</b>	Decomposition occurs prior to boiling.
<b>Flash Point</b>	Non-combustible
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Density</b>	2.4 g/cm <sup>3</sup> , 20°C
<b>Water Solubility</b>	Insoluble
<b>Partition coefficient</b>	Not applicable
<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	200° C
<b>Viscosity</b>	Not applicable
<b>Explosive Properties</b>	Not applicable
<b>Oxidizing Properties</b>	Not applicable
<b>VOC Content (%)</b>	Not applicable
<b>9.2. Other information</b>	

## 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.

# Safety Data Sheet

## HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 7 of 11

**10.5. Incompatible materials** None known

**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.

### Information on Likely Routes of Exposure

<b>Inhalation</b>	Do not breathe dust. Inhalation of dust may cause irritation of the respiratory system.
<b>Skin</b>	Contact with dust can cause mechanical irritation or drying of the skin.
<b>Eyes</b>	Avoid contact with eyes. Dust contact with the eyes can lead to mechanical irritation.
<b>Ingestion</b>	Ingestion is not a likely route of exposure.
<b>Aspiration hazard</b>	Not an expected route of exposure.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Signs and symptoms may include coughing, gasping, choking and difficulty breathing. Contact with eyes may cause irritation.

### 11.1. Information on toxicological effects

#### Aluminum Hydroxide - 21645-51-2

<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

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

**Chronic Toxicity** Not classified.

**Chronic Effects** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Dust may cause mechanical irritation to eyes.

**Respiratory Sensitization** No data available.

**Skin Corrosion/Irritation** Prolonged or repeated contact may dry skin and cause irritation.

# Safety Data Sheet

HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 8 of 11

<b>Skin Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Not listed.
<b>Specific target organ toxicity - Single exposure</b>	No data available.
<b>Specific target organ toxicity - Repeated exposure</b>	No data available.
<b>Mixture versus substance information</b>	No information available.

## SECTION 12: Ecological information

**12.1. Ecotoxicity** Not considered to be harmful to aquatic life. Avoid release to the environment.

### Aluminum Hydroxide - 21645-51-2

**WGK Classification (AwSV)** 5220 WGK: nwg

**12.2. Persistence and degradability** Not biodegradable.

**12.3. Bioaccumulative potential** This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

**Partition coefficient** Not applicable.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**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



# Safety Data Sheet

HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 9 of 11

## 13.1. Waste treatment methods

<b>Contaminated Packaging</b>	Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Waste codes</b>	Waste codes should be assigned by the user based on the application for which the product was used
<b>Disposal Methods</b>	Dispose of waste product or used containers according to local regulations

### Aluminum Hydroxide - 21645-51-2

European Waste Catalog 060299

## SECTION 14: Transport information

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

<b>ADR</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADN</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>ICAO</b>	Not regulated

<b>14.1. UN number</b>	None
<b>14.2. UN proper shipping name</b>	None
<b>14.3. Transport hazard class(es)</b>	None
<b>14.4. Packing group</b>	None
<b>14.5. Environmental hazards</b>	No
<b>14.6. Special precautions for user</b>	Not applicable

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable

## SECTION 15: Regulatory information

# Safety Data Sheet

HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 10 of 11

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

### Global Inventories

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Aluminum Hydroxide	21645-51-2	244-492-7	01-211952 9246-39	Y	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Y	A
Proprietary Surface Treatment	Proprietary	*	Registered	Y	Y	Y	Y	Y	Y	-	Y	Y	A

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

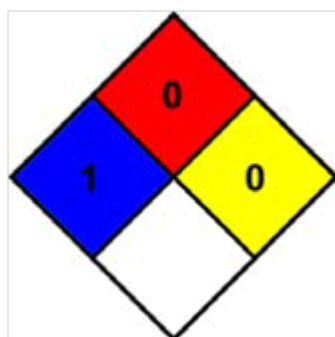
Information on risks and safety as written on the label

Health - Blue

Flammability - Red

Physical Hazard - Yellow

Special - White



- 4- Extreme
- 3- High
- 2- Moderate
- 1- Low
- 0- Minimum

## SECTION 16: Other information

### Prepared by

Huber Engineered Materials (HEM) Global Regulatory Affairs  
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### Reason for Version

Published with new date. No changes.  
Brasil: ABNT NRB 14725-4: 2014.

### Training Advice

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

# Safety Data Sheet

## HYMOD® M9400 SP

Issue Date 26/Sep/2023

Print Date 26/Sep/2023

Revision Number 1.3.1

Page 11 of 11

### Abbreviations and acronyms

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