ADVANCED MATERIALS

Safety Data Sheet

HYMOD® M632 SP

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

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Print Date 27/Nov/2023

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

1.1. Product identifier

Product Name: HYMOD® M632 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

E-mail hubermaterials@huber.com

1.4. Emergency telephone

number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

SECTION 2: Hazards identification

Brazil Ministry of Transport This product is not part of the Hazardous Products Classification established by

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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

Prevention 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

Response IF exposed or concerned: Get medical advice/attention

Wash with plenty of soap and water

Storage Store away from incompatible materials

Keep in a dry place

Disposal 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	Α	01-2119529246-39	Not classified.	>99
Proprietary Surface Treatment	Proprietary	Α	Registered	Not classified.	<1

Additional information TSCA A: Component is listed on Inventory as Active

SECTION 4: First aid measures

4.1. Description of first aid measures

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General Advice 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.

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.

Ingestion Rinse mouth thoroughly with water.

Inhalation Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

Based on available data, the classification criteria are not met. **Aspiration hazard**

4.2. Most important symptoms and effects, both acute and

delayed

May cause skin, eye, and respiratory tract irritation.

medical attention and special

treatment needed

4.3. Indication of any immediate 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

None known Flammable Properties

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 Avoid dust formation.

the substance or mixture

Dust Explosion Hazard None known

Hazardous Combustion

Products

None known

5.3. Advice for firefighters

Special protective Wear a self-contained breathing apparatus and chemical protective clothing.

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equipment for firefighters

Fire-fighting measures Water mist may be used to cool closed containers. Combustible dust may form

combustible (explosive) dust-air mixtures.

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 The use of water wash down is not recommended unless the

spilled material is already wet

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, Keep container tightly closed and dry. Store away from incompatible materials. **including any incompatibilities**

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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Aluminum Hydroxide - 21645-51-2

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)

ACGIH TLV/TWA 8-hr: 1 mg/m³ (respirable fraction)

Mexico Not established

PNEC (Predicted No Effect

Concentration)

No information available

No information available **Biological Limit Values**

8.2. Exposure controls

Do not handle until all safety precautions have been read and understood **Engineering Measures**

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

Wear safety glasses with side shields (or goggles). **Eye/Face Protection**

Wear suitable protective clothing. **Skin and Body Protection**

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

Physical State Solid.

Color White

Odorless Odor

Odor Threshold No information available

8.4 - 10.2 (5% water suspension) pH:

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Melting point / Freezing point Not available

Melting Point / Melting Range Decomposition occurs prior to melting.

Initial boiling point Not available

Boiling Point Decomposition occurs prior to boiling.

Flash Point Non-combustible

Evaporation Rate Not applicable

Flammability (solid, gas) Not applicable

Vapor Pressure Not applicable

Vapor Density Not applicable

Density 2.4 g/cm3, 20°C

Water Solubility Insoluble

Partition coefficient Not applicable

Autoignition Temperature Not applicable

Decomposition Temperature 200° C

Viscosity Not applicable

Explosive Properties Not applicable

Oxidizing Properties Not applicable

VOC Content (%) Not applicable

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity None.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous

reactions

No specific hazard known.

10.4. Conditions to avoid Incompatible materials. Dust formation.

10.6. Hazardous decomposition None known.

products

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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. Inhalation of dust may cause irritation of the

respiratory system.

Skin Avoid prolonged or repeated contact with skin.

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.

Symptoms related to the physical, chemical and

he Signs and symptoms may include coughing, gasping, choking and difficulty breathing. Contact with eyes may cause irritation.

toxicological characteristics

11.1. Information on toxicological effects

Aluminum Hydroxide - 21645-51-2

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 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.

Skin Sensitization Based on available data, the classification criteria are not met.

Mutagenicity No data available.

Germ cell mutagenicity No data available.

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

Not listed. Carcinogenicity

Specific target organ toxicity -

Single exposure

No data available.

Specific target organ toxicity -

Repeated exposure

No data available.

Mixture versus substance

information

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

12.5. Results of PBT and vPvB

(BCF)

Not available.

12.4. Mobility in soil No data available.

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

Product residue may remain in empty containers. Empty containers should be **Contaminated Packaging**

taken to an approved waste handling site for recycling or disposal.

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Waste codes Waste codes should be assigned by the user based on the application for which

the product was used

Disposal MethodsDispose 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)

ADR Not regulated

RID Not regulated

ADN Not regulated

IATA Not regulated

IMDG/IMO Not regulated

ICAO Not regulated

14.1. UN 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 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

Chemical Name	CAS	EC No	EU	Australia	Canada	China	Japan	S. Korea	Mexico	New	Philippine	Taiwan	TSCA:

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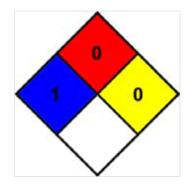
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	Number		REACH registrati on number	(AIIC)	(DSL)	(IECSC)		(KECL)		Zealand	s (PICCS)		United States
Aluminum Hydroxide	21645-51- 2	244-492-7	01-211952 9246-39	Υ	Y	Y	(1)-17 (ENCS); ISHL	KE-00980	Y	Y	Y	Υ	Α
Proprietary Surface Treatment	Proprietar y	*	Registere d	Υ	Y	Y	Y	Y	Y	-	Y	Υ	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

regulatory.affairs@huber.com

Reason for Version Brasil: ABNT NRB 14725-4: 2014.

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

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)

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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