



HYMOD® M932 SP

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

Issue Date 27/Nov/2023
Print Date 27/Nov/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® M932 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

Safety Data Sheet

HYMOD® M932 SP

Issue Date 27/Nov/2023

Print Date 27/Nov/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

| | |
|------------|---|
| 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 | 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

SECTION 4: First aid measures

4.1. Description of first aid measures

Safety Data Sheet

HYMOD® M932 SP

Issue Date 27/Nov/2023

Print Date 27/Nov/2023

Revision Number 1.3.1

Page 3 of 11

| | |
|--|--|
| 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. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| 4.2. Most important symptoms and effects, both acute and delayed | May cause skin, eye, and respiratory tract irritation. |
| 4.3. Indication of any immediate medical attention and special treatment needed | 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 (CO2). |
| Unsuitable Extinguishing Media | None known. |
| 5.2. Special hazards arising from the substance or mixture | Avoid dust formation. |
| 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. |

Safety Data Sheet

HYMOD® M932 SP

Issue Date 27/Nov/2023

Print Date 27/Nov/2023

Revision Number 1.3.1

Page 4 of 11

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, including any incompatibilities

Keep container tightly closed and dry. Store away from incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters**Occupational exposure limits**

Safety Data Sheet

HYMOD® M932 SP

Issue Date 27/Nov/2023

Print Date 27/Nov/2023

Revision Number 1.3.1

Page 5 of 11

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

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**Physical State**

Solid.

Color

White

Odor

Odorless

Odor Threshold

No information available

pH:

8.4 - 10.2 (5% water suspension)

Safety Data Sheet

HYMOD® M932 SP

Issue Date 27/Nov/2023

Print Date 27/Nov/2023

Revision Number 1.3.1

Page 6 of 11

| | |
|---------------------------------------|--|
| 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/cm ³ , 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 products | None known. |

Safety Data Sheet

HYMOD® M932 SP

Issue Date 27/Nov/2023
Print Date 27/Nov/2023

Revision Number 1.3.1
Page 7 of 11

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 toxicological characteristics | 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

| | |
|------------------------|---|
| Oral LD50 | > 2000 mg/kg Rat |
| Inhalation LC50 | Rat > 2.3 mg/l (Al ₂ O ₃) 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. |

Safety Data Sheet

HYMOD® M932 SP

Issue Date 27/Nov/2023

Print Date 27/Nov/2023

Revision Number 1.3.1

Page 8 of 11

| | |
|---|---|
| Reproductive Toxicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Not listed. |
| 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 (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

13.1. Waste treatment methods

Contaminated Packaging Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Safety Data Sheet

HYMOD® M932 SP

Issue Date 27/Nov/2023

Print Date 27/Nov/2023

Revision Number 1.3.1

Page 9 of 11

Waste codes

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

Disposal Methods

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)

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 user 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

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: |
|---------------|-----|-------|----|-----------|--------|-------|-------|----------|--------|-----|------------|--------|-------|
|---------------|-----|-------|----|-----------|--------|-------|-------|----------|--------|-----|------------|--------|-------|

Safety Data Sheet

HYMOD® M932 SP

Issue Date 27/Nov/2023

Print Date 27/Nov/2023

Revision Number 1.3.1

Page 10 of 11

| | Number | | REACH registrati on number | (AIC) | (DSL) | (IECSC) | | (KECL) | | Zealand | s (PICCS) | | 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 | Proprietar y | * | Registere d | Y | Y | Y | Y | Y | Y | - | Y | Y | A |

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

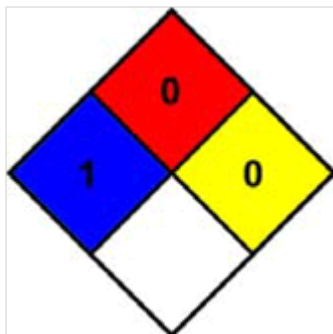
Information on risks and safety as written on the label

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
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)

Safety Data Sheet

HYMOD® M932 SP**Issue Date** 27/Nov/2023**Print Date** 27/Nov/2023**Revision Number** 1.3.1**Page 11 of 11**

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