



### Martinal® TM-3719

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03 Canadian Workplace Hazardous Material Information System (WHMIS) 2015 Mexico NOM-018-STPS-2000; NOM-018-STPS-2015 GHS (Globally Harmonized System)

Issue Date 31/Aug/2022 Print Date 31/Aug/2022 Revision Number 1.1 Page 1 of 10

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

#### 1.1. Product identifier

Product Name: Martinal® TM-3719

Pure substance/mixture Mixture

#### 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: | J.M. Huber Corporation               |
|----------|--------------------------------------|
|          | 3100 Cumberland Boulevard, Suite 600 |
|          | Atlanta, GA 30339 USA                |
|          | Tel: +1 678 247-7300                 |
|          |                                      |

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)

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

| OSHA Regulatory Status | This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) |
|------------------------|--|
| Physical Hazards       | Not classified   |
| Health Hazards         | Not classified   |
| Environmental Hazard   | Not classified   |

Martinal® TM-3719

Issue Date 31/Aug/2022 Print Date 31/Aug/2022 Revision Number 1.1 Page 2 of 10

| 2.2. Label elements      |   |
|--------------------------|---|
| Symbols/Pictograms       | None  |
| Signal Word              | None  |
| Hazard Statements        | None  |
| Precautionary Statements |   |
| Prevention               | Employ good industrial hygiene practice<br>Do not handle until all safety precautions have been read and understood<br>Do not breathe dust<br>Wear protective gloves/protective clothing/eye protection/face protection |
| Response                 | IF ON SKIN: Wash with plenty of soap and water  |
| Storage                  | Store away from incompatible materials  |
| Disposal                 | Dispose of contents/containers in accordance with local regulations   |
| Additional Information:  | None.   |
|                          | IN at all a stift and   |

Hazards not otherwise classified Not classified. (HNOC)

## **SECTION 3: Composition/information on ingredients**

Pure substance/mixture

Mixture

| Chemical Name      | CAS Number | TSCA: United<br>States | Canada (DSL) | Mexico | EU REACH<br>registration<br>number | OSHA<br>Regulatory<br>Status  | WHMIS | Weight-% |
|--------------------|------------|------------------------|--------------|--------|------------------------------------|---|-------|----------|
| Aluminum Hydroxide | 21645-51-2 | A                      | Y            | Y      | 01-211952924<br>6-39               | Not classified  |       | -        |
| Surface treatment  | -          | A                      | Y            | Y      |                                    | H315 - Causes<br>skin irritation<br>Category 2 H227<br>Flammable liquid<br>Category 4 |       | <1       |

Legend

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

## **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 medical personnel are aware of the material(s) involved and take precautions to protect themselves.

HUBER

## Safety Data Sheet

Martinal® TM-3719

Issue Date 31/Aug/2022 Print Date 31/Aug/2022 Revision Number 1.1 Page 3 of 10

| 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  | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.                          |
| Aspiration hazard   | Not an expected route of exposure.   |
| 4.2. Most important symptoms and effects, both acute and delayed                | Signs and symptoms may include coughing, gasping, choking and difficulty breathing.  |
| 4.3. Indication of any immediate medical attention and special treatment needed | 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**

6.1. Personal precautions, protective equipment and

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

Martinal® TM-3719

**Revision Number** 1.1

Page 4 of 10

Issue Date 31/Aug/2022 Print Date 31/Aug/2022

emergency procedures

| 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.<br>Handle in accordance with good industrial hygiene and safety practice. |
|---|---|
| 7.2. Conditions for safe storage, including any incompatibilities | Store away from incompatible materials. 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<br>OSHA<br>ACGIH         | TWA: 15 mg/m <sup>3</sup> Total Dust<br>5 mg/m <sup>3</sup> Respirable Dust<br>TLV/TWA 8-hr: 1 mg/m <sup>3</sup> (respirable fraction)        |
|---|---|
| Canada - Nova Scotia - OEL - TWA            | 1 mg/m <sup>3</sup> TWA (respirable fraction)   |
|   |   |
| PNEC (Predicted No Effect<br>Concentration) | No information available  |
| 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/m <sup>3</sup> |
| <b>Biological Limit Values</b>              | None  |
| 8.2. Exposure controls                      |   |

Martinal® TM-3719

Issue Date 31/Aug/2022 Print Date 31/Aug/2022 Revision Number 1.1 Page 5 of 10

| 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.  |
| Hand Protection                    | For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.  |
| <b>Respiratory Protection</b>      | In case of inadequate ventilation wear respiratory protection.  |
| 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<br>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 White Color Odor Odorless No information available **Odor Threshold** pH: Not available Melting point / Freezing point Not applicable **Boiling Point** No information available Flash Point Non-combustible **Evaporation Rate** Not applicable. Not applicable Flammability (solid, gas) Upper flammability limit: Lower flammability limit: Vapor Pressure Not applicable Vapor Density Not applicable **Relative Density** 2.4 g/cm3, 20° C Water Solubility Insoluble Solubility in other solvents No information available Partition coefficient Not applicable Not applicable Product/Substance is inorganic Not applicable **Autoignition Temperature** 200 °C (392 °F) **Decomposition Temperature** Not applicable. Viscosity **Explosive Properties** Not applicable **Oxidizing Properties** Not oxidizing VOC Content (%) Not applicable

Martinal® TM-3719

Issue Date 31/Aug/2022 Print Date 31/Aug/2022

**Revision Number** 1.1 Page 6 of 10

## **SECTION 10: Stability and reactivity**

10.1. Reactivity None 10.2. Chemical stability Stable under normal conditions 10.3. Possibility of hazardous None under normal processing reactions 10.4. Conditions to avoid Incompatible materials Strong acids 10.5. Incompatible materials 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<br>Prolonged exposure may cause skin irritation              |  |
| Eyes  | Avoid contact with eyes<br>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 toxicologic                                  | al effects  |  |
| <u>Aluminum Hydroxide</u><br>Oral LD50<br>Inhalation LC50<br>IARC | > 2000 mg/kg Rat<br>Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration<br>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.                                 |  |

### HUBER

## Safety Data Sheet

Martinal® TM-3719

Issue Date 31/Aug/2022 Print Date 31/Aug/2022

### Revision Number 1.1 Page 7 of 10

| 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 -<br>Single exposure   | No information available.  |
| Specific target organ toxicity -<br>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.                                |
|--|--|
| <u>Aluminum Hydroxide</u><br>WGK Classification (AwSV) | 5220 WGK: nwg  |
| 12.2. Persistence and degradability                    | Not readily biodegradable.   |
| 12.3. Bioaccumulative potential                        | No data available.   |
| Partition coefficient                                  | Not applicable   |
| Bioconcentration factor<br>(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. |

#### HUBER

## Safety Data Sheet

Martinal® TM-3719

Issue Date 31/Aug/2022 Print Date 31/Aug/2022 Revision Number 1.1 Page 8 of 10

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><br>European Waste Catalog<br>WGK Classification (AwSV) | 060299<br>5220 WGK: nwg   |

## **SECTION 14: Transport information**

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

| TDG -Canada | Not regulated |
|-------------|---------------|
| DOT         | Not regulated |
| ADR         | Not regulated |
| RID         | Not regulated |
| ADN         | Not regulated |
| ΙΑΤΑ        | 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<br>user | Not applicable |

Martinal® TM-3719

Issue Date 31/Aug/2022 Print Date 31/Aug/2022 Revision Number 1.1 Page 9 of 10

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

## **SECTION 15: Regulatory information**

### **Global Inventories**

Pure substance/mixture Mixture

| Chemical Name         | CAS<br>Number  | EC No     | EU<br>REACH<br>registrati<br>on<br>number | Australia<br>(AIIC) | Canada<br>(DSL) | China<br>(IECSC) | Japan                     | S. Korea<br>(KECL) | Mexico |   | Philippine<br>s (PICCS) | Taiwan | TSCA:<br>United<br>States |
|-----------------------|----------------|-----------|---|---------------------|-----------------|------------------|---------------------------|--------------------|--------|---|-------------------------|--------|---------------------------|
| Aluminum<br>Hydroxide | 21645-51-<br>2 | 244-492-7 | 01-211952<br>9246-39                      | Y                   | Y               | Y                | (1)-17<br>(ENCS);<br>ISHL | KE-00980           | Y      | Y | Y                       | Y      | A                         |
| Surface<br>treatment  | -              | Y         | Registere<br>d                            | Y                   | Y               | Y                | Y                         | Y                  | Y      | Y | Y                       | Y      | A                         |

Legend

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

#### **US Federal Regulations**

#### **EPA**

| Aluminum Hydroxide |            |
|--------------------|------------|
| CERCLA             | Not listed |
| SARA 302           | Not listed |

CWA (Clean Water Act) Not listed

CAA (Clean Air Act) Not listed

#### U.S. State Right-to-Know Regulations

| Chemical Name      | CAS Number | California<br>Proposition 65 | Massachusetts | Minnesota | New Jersey | Pennsylvania |
|--------------------|------------|------------------------------|---------------|-----------|------------|--------------|
| Aluminum Hydroxide | 21645-51-2 | N                            | N             | Ν         | N          | N            |
| Surface treatment  | -          | N                            | N             | Ν         | N          | N            |

Legend Y: Listed ; N: Not Listed

### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any Proposition 65 chemicals

### CANADA

WHMIS

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

# Safety Data Sheet Martinal® TM-3719

Issue Date 31/Aug/2022 Print Date 31/Aug/2022

Revision Number 1.1 Page 10 of 10

| SECTION 16: Other information |  |  |  |  |  |  |
|-------------------------------|--|--|--|--|--|--|
| Prepared by                   | Huber Engineered Materials (HEM) Global Regulatory Affairs regulatory.affairs@huber.com  |  |  |  |  |  |
| Issue Date<br>Print Date      | 31/Aug/2022<br>31/Aug/2022   |  |  |  |  |  |
| Revision Number               | 1.1  |  |  |  |  |  |
| Reason for Version            | OSHA (Occupational Safety and Health Administration of the US Department of Labor).  |  |  |  |  |  |
| Training Advice               | Do not handle until all safety precautions have been read and understood.  |  |  |  |  |  |
| Abbreviations and acronyms    | IARC (International Agency for Research on Cancer)<br>IATA (International Air Transport Association)<br>IMDG (International Maritime Dangerous Goods)<br>IUCLID (International Uniform Chemical Information Database)<br>WHMIS (Workplace Hazardous Materials Information System)<br>DOT (Department of Transportation)<br>OSHA (Occupational Safety and Health Administration of the US Department of Labor)<br>TWA (Time-Weighted Average)<br>CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC<br>1272/2008))<br>PPE (Personal Protection Equipment)<br>NIOSH (National Institute for Occupational Safety and Health)<br>TDG (Transport of Dangerous Goods) Canada<br>CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)<br>RQ (Reportable Quantity) (RQ/% in mixture)<br>STEL (Short Term Exposure Limit)<br>TLV® (Threshold Limit Value)<br>DNEL (Derived No Effect Level)<br>SVHC (Substances of Very High Concern)<br>BOD (Biochemical oxygen demand)<br>COD (International Civil Aviation Organization)<br>IMDG (International Maritime Dangerous Goods)<br>ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the International Carriage of Dangerous Goods by Road)<br>RID (Agreement Concerning the Inter |  |  |  |  |  |
| 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