



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)

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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

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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 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.
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Hazards not otherwise classified Not classified. (HNOC)

SECTION 3: Composition/information on ingredients

Pure substance/mixture

Mixture

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

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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.

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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. 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 OSHA ACGIH	TWA: 15 mg/m ³ Total Dust 5 mg/m ³ Respirable Dust TLV/TWA 8-hr: 1 mg/m ³ (respirable fraction)
Canada - Nova Scotia - OEL - TWA	1 mg/m ³ TWA (respirable fraction)
PNEC (Predicted No Effect 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 ³
Biological Limit Values	None
8.2. Exposure controls	

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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.
Respiratory Protection	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 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

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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 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	
Aspiration hazard	Not an expected route of exposure.	
11.1. Information on toxicologic	al effects	
<u>Aluminum Hydroxide</u> Oral LD50 Inhalation LC50 IARC	> 2000 mg/kg Rat Rat > 2.3 mg/l (Al2O3) Aerosol Maximum attainable concentration 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.	

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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 - 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.
<u>Aluminum Hydroxide</u> 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 (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.

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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> European Waste Catalog WGK Classification (AwSV)	060299 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 user	Not applicable

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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 Number	EC No	EU REACH registrati on number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (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
Surface treatment	-	Y	Registere 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 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

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SECTION 16: Other information						
Prepared by	Huber Engineered Materials (HEM) Global Regulatory Affairs regulatory.affairs@huber.com					
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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) 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 (International Civil Aviation Organization) IMDG (International Maritime Dangerous Goods) ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the International Carriage of Dangerous Goods by Road) RID (Agreement Concerning the Inter					
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End of Safety Data Sheet