



### Kemgard® MZM-UF

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 Globally Harmonized System (GHS)

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

### 1.1. Product identifier

Product Name: Kemgard® MZM-UF

Pure substance/mixture Mixture

#### 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.hubermaterials.com
- E-mail hubermaterials@huber.com

### **1.4. Emergency telephone**CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

number

### **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)
GHS Classification	Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)
Physical Hazards	Not classified

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Issue Date: 30/Sep/2020 Revision Number: 1.3.1 Print Date: 30/Sep/2020 Page 2 of 10 Not classified **Health Hazards** Not classified **Environmental Hazard** 2.2. Label elements Symbols/Pictograms None Signal Word None **Hazard Statements** None **Precautionary Statements** Prevention Do not handle until all safety precautions have been read and understood Employ good industrial hygiene practice Do not breathe dust Wear protective gloves/protective clothing/eye protection/face protection Response 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 Storage Store away from incompatible materials Keep in a dry place Disposal Dispose of contents/containers in accordance with local regulations Hazards not otherwise classified None known. (HNOC)

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

### Pure substance/mixture

Mixture

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	REACH registration number	OSHA Regulatory Status	WHMIS	Weight-%
Magnesium Hydroxide	1309-42-8	A	Y	Y	01-211948875 6-18-0040	Not regulated		75 - 90%
Zinc Molybdenum	22914-58-5 61583-60-6	A	Y: DSL-22914-58 -5 NDSL: 61583-60-6	Y: (MO-generics)	01-212080048 1-68-0000	Not regulated		10 - 25%

Legend

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

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### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General Advice	Do not handle until all safety precautions have been read and understood. 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	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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	Not an expected route of exposure.
4.2. Most important symptoms and effects, both acute and delayed	May cause irritation to mucous membranes and respiratory tract. Contact with dust can cause mechanical irritation or drying of the skin.
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**

### 5.1. Extinguishing media

Suitable Extinguishing Media Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).

#### **Unsuitable Extinguishing Media** Do not use water jetstream.

**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.

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**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. 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,** 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** 

Magnesium Hydroxide

TWA: 15 mg/m<sup>3</sup> total dust 5 mg/m<sup>3</sup> respirable

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ACGIH NIOSH Canada Mexico	TLV-TWA: 8-hr : 10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable fraction) TWA: 15 mg/m <sup>3</sup> (total dust) Not established TWA/OEL (VLE-PPT): Not established
Zinc Molybdenum	
OSHA	TWA: 5 mg/m <sup>3</sup> (respirable); 10 mg/m <sup>3</sup> (dust) PEL: 5 mg/m <sup>3</sup> (respirable)
ACGIH	TWA: 10 mg/m <sup>3</sup> dust 0.5 mg/m <sup>3</sup> Respirable fraction
NIOSH	TWA 8-hr: 10 mg/m <sup>3</sup>
Canada	TWA: 8-Hour: 0.5 mg/m <sup>3</sup>
Mexico	TWA/OEL (VLE-PPT): 0.5 mg/m <sup>3</sup>
Biological Limit Values:	No information available

Derived No Effect Level (DNEL) No data available

Predicted No Effect Concentration (PNEC) No data available

#### 8.2. Exposure controls

Engineering Measures	Provide a good standard of controlled ventilation (5 to 10 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.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.
Thermal hazards	None known. Wear suitable protective clothing.
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**

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Physical State	Solid
Color	White
Odor	Odor
Odor Threshold	No in
pH:	9.4
Freezing Point	Not a
Flash Point:	Not a
Evaporation Rate	Not a
Flammability (solid, gas)	Not a
Upper flammability limit:	
Lower flammability limit:	
Vapor Pressure	Not a
Vapor Density	Not a
Relative Density	No da
Water Solubility	Slight
Solubility in other solvents	No in
Partition coefficient	No da
Autoignition Temperature	Not a
Decomposition Temperature	1292
Specific Gravity	2.63
9.2. Other information	No da

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Powder

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

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No information available
10.4. Conditions to avoid	Dust formation Incompatible materials
10.5. Incompatible materials	Strong oxidizing agents
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

Inhalation of dust in high concentration may cause irritation of respiratory system

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Skin	Prolonged or repeated contact may dry skin and cause irritation
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 toxicological effects

<u>Magnesium Hydroxide</u> Oral LD50 <u>Zinc Molybdenum</u> Oral LD50 IARC	8500 mg/kg Rat >10000 mg/kg Rat Not Listed
Acute Toxicity	Based on available data, the classification criteria are not met
Respiratory Sensitization	No data available
Serious eye damage/eye irritation	Dust may cause mechanical irritation to eyes
Skin Sensitization	No data available
Carcinogenicity	There are no known carcinogenic chemicals in this product.
Target Organ Effects	No data available.
Specific target organ toxicity - Single exposure	No data available.
Specific target organ toxicity - Repeated exposure	No data available.

# **SECTION 12: Ecological information**

12.1. Ecotoxicity	Not considered to be harmful to aquatic life.
<u>Magnesium Hydroxide</u> WGK Classification (AwSV)	5209 WGK: nwg
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
Partition coefficient	No data available

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Bioconcentration factor (BCF)	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No data available.
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	Product residue may remain in empty containers. 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>Magnesium Hydroxide</u> European Waste Catalog WGK Classification (AwSV)	060299 5209 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

- 14.1. UN number None
- 14.2. UN proper shipping name None
- 14.3. Transport hazard class(es) None

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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**

#### **Global Inventories**

#### Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	REACH registrati on number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico		Philippine s (PICCS)		TSCA: United States
Magnesium Hydroxide	1309-42-8		01-211948 8756-18-0 040		Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	Y	Y	Y	A
Zinc Molybdenum	22914-58- 5 61583-60- 6		01-212080 0481-68-0 000	61583-60- 6 (generics)	Y: DSL-2291 4-58-5 NDSL: 61583-60- 6		(1)-781 (ENCS)(ISH L)	KE-11910	Y: (MO-gene rics)	Y: CAS 22914-58- 5 (generics)		Y	A

Legend

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

### **US Federal Regulations**

#### <u>EPA</u>

Zinc Molybdenum	
CERCLA	Listed
SARA 304	Listed
SARA 313	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
Magnesium Hydroxide	1309-42-8	No	No	No	No	No
Zinc Molybdenum	22914-58-5 61583-60-6	Ν	Y	Y	Y	Y

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### 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

	SECTION 16: Other information
Prepared by	Huber Engineered Materials (HEM) Global Regulatory Affairs regulatory.affairs@huber.com
Issue Date: Print Date:	30/Sep/2020 30/Sep/2020
Revision Number:	1.3.1
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	International Agency for Research on Cancer (IARC) International Air Transport Association (IATA) International Maritime Dangerous Goods (IMDG) International Uniform Chemical Information Database (IUCLID) Workplace Hazardous Materials Information System (WHMIS) status and classification EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification DOT (Department of Transportation) OSHA (Occupational Safety and Health Administration of the US Department of Labor) TWA - Time-Weighted Average Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) The Classification, Labeling and Packaging of Substances and Mixtures (CLP) 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) Reportable Quantity (RQ) (RQ/% in mixture) STEL - Short Term Exposure Limit TLV® - Threshold Limit Value Derived No Effect Level (DNEL) SVHC: Substances of Very High Concern for Authorization: Land transport (ADR/RID) Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ICAO (air) (IMDG) International Maritime Dangerous Goods Positive Pressure Self-Contained Breathing Apparatus (SCBA) Predicted No Effect Concentration (PNEC) Globally Harmonized System (GHS)
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