Safety Data Sheet



Kemgard® MZM-UF

Japan-JIS Z 7253:2012 Occupational Safety and Health Act Globally Harmonized System (GHS)

Issue Date: 30/Sep/2020 Revision Number: 1.3.1

Print Date: 30/Sep/2020 Page 1 of 8

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Kemgard® MZM-UF

Pure substance/mixture Mixture

Magnesium Hydroxide

CAS Number 1309-42-8 **Weight-%** 75 - 90%

Zinc Molybdenum

CAS Number 22914-58-5 61583-60-6

Weight-% 10 - 25%

Recommended Use Flame retardant

Uses advised against None known

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

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

+81 03-3560-7316

2. HAZARD IDENTIFICATION

Japan GHS Classification

Physical Hazards Not classified

Health Hazard Not classified

Environmental Hazards Not classified

GHS label elements

Symbols/Pictograms None

Signal Word None

Hazard statements Based on available data, the classification criteria are not met

Precautionary Statements

Safety Data Sheet

Kemgard® MZM-UF

Issue Date: 30/Sep/2020 Revision Number: 1.3.1

Print Date: 30/Sep/2020 **Page 2 of 8**

Prevention Do not handle until all safety precautions have been read and understood

Employ good industrial hygiene practice

Do not breathe dust

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/container to an approved waste disposal plant

Hazards not otherwise classified None known

(HNOC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Mixture

Chemical Name	CAS Number	Japan	Japan GHS Classification	TSCA: United States	REACH registration number	Weight-%
Magnesium Hydroxide	1309-42-8	(1)-386 (ENCS) (ISHL)	Not classified	Α	01-2119488756-18 -0040	75 - 90%
Zinc Molybdenum	22914-58-5 61583-60-6	(1)-781 (ENCS)(ISHL)	H410 - Very toxic to aquatic life with long lasting effects <25% Not classified	А	01-2120800481-68 -0000	10 - 25%

Additional Information: TSCA

A: Component is listed on Inventory as Active

4. FIRST AID MEASURES

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

IF IN EYES: In case of eye contact, remove contact lens and rinse immediately with plenty of

water, also under the eyelids, for at least 15 minutes Call a physician if irritation develops and persists

If swallowed: Rinse mouth thoroughly with water

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved and take

precautions to protect themselves

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Safety Data Sheet Kemgard® MZM-UF

Revision Number: 1.3.1

Issue Date: 30/Sep/2020 **Print Date:** 30/Sep/2020 Page 3 of 8

Suitable Extinguishing

Media

Water spray (fog)

Foam

Dry chemical

Carbon dioxide (CO2)

Unsuitable Extinguishing Media Do not use water jetstream

Special hazards arising from the Avoid dust formation

substance or mixture

Fire-fighting measures In case of fire and/or explosion do not breathe fumes

Water mist may be used to cool closed containers

Keep unauthorized personnel away

Special Protective Equipment

for Firefighters

Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and

Avoid dust formation

Precautions for Firefighters

Ensure adequate ventilation

Use personal protection recommended in Section 8

Avoid contact with eyes and skin. Wear suitable personal protection equipment.

Keep unauthorized personnel away

Environmental Precautions

Keep out of drains, sewers, ditches and waterways

Disposal considerations

See section 13 for more information

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 Minimize

use of water during clean-up

Recommended filter type: High efficiency particulate air filter (HEPA filter)

Other Information Not applicable

7. HANDLING AND STORAGE

Handling

Technical measures Provide adequate ventilation as well as local exhaustion at critical locations

Ensure adequate ventilation Use personal protection equipment See section 8 for more information

Advice on safe handling Minimize dust generation and accumulation

including any incompatibilities

Conditions for safe storage, Keep containers tightly closed in a cool, well-ventilated place

Hygiene Measures Wash hands thoroughly after handling

Safety Data Sheet

Kemgard® MZM-UF

Issue Date: 30/Sep/2020 Revision Number: 1.3.1

Print Date: 30/Sep/2020 **Page 4 of 8**

Storage

Packaging compatibilities Keep/store only in original container

Incompatible Products Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits Provide adequate ventilation as well as local exhaustion at critical locations

Magnesium Hydroxide

Japan Not established

Zinc Molybdenum

Japan Not established

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Respiratory Protection In case of inadequate ventilation wear respiratory protection

Hand protection For operations where prolonged or repeated skin contact may occur, impervious

gloves should be worn

Eye Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear suitable protective clothing.

Chemical resistant apron.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Wash thoroughly after handling Avoid contact with eyes and skin

Do not breathe dust

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Color

Odor

Physical State Solid

Powder White Odorless

Odor Threshold No information available

pH: 9.4

Freezing Point
Flash Point:

Evaporation Rate
Flammability (solid, gas)

Not applicable
Not applicable
Not applicable

Upper flammability limit: Lower flammability limit:

Vapor PressureNot applicableVapor DensityNot applicableRelative DensityNo data availableWater SolubilitySlightly soluble

Solubility in other solvents
Partition coefficient
Autoignition Temperature
No information available
No data available
Not applicable

Decomposition Temperature 1292 - 1652 °F (700 - 900 °C)

Safety Data Sheet Kemgard® MZM-UF

Issue Date: 30/Sep/2020 Revision Number: 1.3.1

Print Date: 30/Sep/2020 **Page 5 of 8**

Specific Gravity 2.63 (H2O = 1)

No data available.

10. STABILITY AND REACTIVITY

Reactivity Stable under normal conditions

Chemical stability Stable under normal conditions

Possibility of hazardous

reactions

None known

Incompatible materials Strong oxidizing agents

Hazardous decomposition

products

None known

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

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

Magnesium Hydroxide

Oral LD50 8500 mg/kg Rat

Zinc Molybdenum

Oral LD50 >10000 mg/kg Rat

IARC Not Listed

Acute Toxicity 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 Sensitization No data available

Carcinogenicity There are no known carcinogenic chemicals in this product.

Safety Data Sheet Kemgard® MZM-UF

Issue Date: 30/Sep/2020 Revision Number: 1.3.1

Print Date: 30/Sep/2020 Page 6 of 8

Target Organ Effects No data available.

Specific target organ toxicity -

Single exposure

No data available.

Specific target organ toxicity -

Repeated exposure

No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Based on available data, the classification criteria are not met

Persistence and degradability No data available

Bioaccumulation No data available.

Mobility in soil No data available

Hazardous to the ozone layer No data available

13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with federal, state and local regulations

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling

or disposal

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

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

Safety Data Sheet

Kemgard® MZM-UF

Issue Date: 30/Sep/2020 Revision Number: 1.3.1

Print Date: 30/Sep/2020 **Page 7 of 8**

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)	Taiwan	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	Υ	А
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	Υ	А

Legend

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

KECL - Korean Existing and Evaluated Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

TSCA (Toxic Substances Control Act)

DSL (Domestic Substance List)

NDSL (Non-Domestic Substances List)

Japan - ISHL Notifiable Substances

ENCS - Japan Existing and New Chemical Substances

Zinc Molybdenum

Japanese Pollutant Release and Transfer Register - Class 1 Substance :453 >= 1.0%

16. OTHER INFORMATION

Prepared by Huber Engineered Materials Global Regulatory Affairs

email: regulatory.affairs@huber.com

Reason for Revision This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)

Bibliography NITE GHS Classified list

Japan Society for occupational health (2015) recommendation of allowable concentrations,

etc.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit

Value

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)

OSHÀ (Occupational Safety and Health Administration of the US Department of Labor)

TWA - Time-Weighted Average

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC

1272/2008)

PPE - Personal Protection Equipment

Safety Data Sheet

Kemgard® MZM-UF

Issue Date: 30/Sep/2020

Print Date: 30/Sep/2020

Revision Number: 1.3.1

Prage 8 of 8

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