

# Safety Data Sheet

Malaysia CLASS Regulation, 2013 GHS (Globally Harmonized System)

Issue Date01/Jan/2024Print Date28/Dec/2023

Revision Number 1.4.3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier **Product Name:** Kemgard® 928 Pure substance/mixture Mixture Magnesium Hydroxide CAS Number 1309-42-8 Weight-% >50 Zinc Molybdenum Oxide CAS Number 22914-58-5 61583-60-6 Weight-% >5 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 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.huberadvancedmaterials.com
E-mail	hubermaterials@huber.com
1.4. Emergency telephone number	CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

## 2. HAZARDS IDENTIFICATION

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

**GHS Classification** 

Considered a hazardous substance or mixture according to the Globally Harmonized System (GHS)

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Hazards identification	
Physical Hazard	Not classified
Health Hazards	Specific target organ toxicity (STOT) - repeated exposure, category 2
Environmental Hazard	Chronic Aquatic Toxicity Category 3
2.2. Label elements	
Symbols/Pictograms	
Signal Word	Warning
Hazard Statements	May cause damage to organs through prolonged or repeated exposure Harmful to aquatic life with long lasting effects
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 Avoid release to the environment
Response	Get medical advice/attention if you feel unwell 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
Storage	Keep in a dry place.
Disposal	Dispose of contents/containers in accordance with local regulations. See Section 13: DISPOSAL CONSIDERATIONS.
2.3. Other hazards	No information available.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Pure substance/mixture

Mixture

Chemical Name	CAS Number	<b>TSCA: United States</b>	EU REACH registration number	Weight-%
Magnesium Hydroxide	1309-42-8	A	01-2119488756-18-0040	>50
Zinc Molybdenum Oxide	22914-58-5	A	01-2120800481-68-0000	>5
	61583-60-6			

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Surface Treatment Proprietary A -- <1

## 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.
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	Not an expected route of exposure.
Notes to Physician	Treat symptomatically.
4.2. Most important symptoms and effects, both acute and delayed	Inhalation of dust may cause irritation of the respiratory system. Eye irritation.
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

## **5. FIRE-FIGHTING MEASURES**

#### 5.1. Extinguishing media

### Suitable Extinguishing

#### Media

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO2).

### Unsuitable Extinguishing Media

None known.

**5.2. Special hazards arising from the substance or mixture** Non-combustible.

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#### 5.3. Advice for firefighters

Special protective equipment for firefighters Wear a self-contained breathing apparatus and chemical protective clothing.

#### Fire-fighting measures

Water mist may be used to cool closed containers.

## **6. ACCIDENTAL RELEASE MEASURES**

6.1. Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid dust formation. Keep unauthorized personnel away.
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.

## 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. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.

**7.2. Conditions for safe storage,** Keep container tightly closed and dry. Store away from incompatible materials. **including any incompatibilities** 

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls

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#### **Occupational exposure limits**

Magnesium Hydroxide NIOSH ACGIH OSHA Zinc Molybdenum Oxide Malaysia NIOSH ACGIH OSHA	TWA: 15 mg/m <sup>3</sup> (total dust) 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 5 mg/m <sup>3</sup> respirable TWA: 5 mg/m <sup>3</sup> TWA 8-hr: 10 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> dust 0.5 mg/m <sup>3</sup> (respirable fraction TWA: 5 mg/m <sup>3</sup> (respirable); 10 mg/m <sup>3</sup> (dust) PEL: 5 mg/m <sup>3</sup> (respirable)
<b>Biological Limit Values</b>	None
Recommended monitoring procedures	Refer also to national guidance documents for information on currently recommended monitoring procedures
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	Wear suitable gloves.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

Thermal hazards Wear suitable protective clothing.

**Hygiene Measures** No information available.

**Environmental Exposure** Dispose of in accordance with local regulations.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties Appearance: Physical State Color Odor Odorless

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Odor Threshold Freezing Point Flash Point Evaporation Rate Upper flammability limit: Lower flammability limit: Vapor Density Density Relative Density Water Solubility Solubility in other solvents Partition coefficient Autoignition Temperature Decomposition Temperature No information available Not applicable Non-combustible. Not applicable.

Not applicable 2.4 g/cm3, 20°C No data available 11.7 mg/l , 25° C No information available No data available Not applicable 626 °F (330° C)

# **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 specific hazard known
10.4. Conditions to avoid	Incompatible materials Dust formation
10.5. Incompatible materials	None known
10.6. Hazardous decomposition	<b>.</b>

## **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	Prolonged or repeated contact may dry skin and cause irritation	
Eyes	Dust contact with the eyes can lead to mechanical irritation	

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Ingestion	Ingestion is not a likely route of exposure
Aspiration hazard	Not an expected route of exposure.
11.1. Information on toxicologic	cal effects
Magnesium Hydroxide Oral LD50 Zinc Molybdenum Oxide Oral LD50 IARC Target Organ Effects Surface Treatment Oral LD50	8500 mg/kg Rat >10000 mg/kg Rat Not Listed Kidney (based on tubular degeneration/regeneration of male Han Wistar rats at 125 mg/kg/day) 2830 μL/kg (rat)
Acute Toxicity	Based on available data, the classification criteria are not met
Chronic Toxicity	Based on available data, the classification criteria are not met.
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
Reproductive Effects	Based on available data, the classification criteria are not met.
Carcinogenicity	Not listed as a carcinogen.
Target Organ Effects	Skin. Eyes. Respiratory system.
Specific target organ toxicity - Single exposure	No information available.
Specific target organ toxicity - Repeated exposure	May cause damage to organs through prolonged or repeated exposure if inhaled. Kidney.

# **12. ECOLOGICAL INFORMATION**

**12.1. Ecotoxicity** Harmful to aquatic life with long lasting effects. Avoid release to the environment.

Magnesium Hydroxide WGK Classification (AwSV) 5209 WGK: nwg

12.2. Persistence and degradability

No data available.

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Issue Date01/Jan/2024Print Date28/Dec/202312.3. Bioaccumulative potentialNo data available.Partition coefficientNo data availableBioconcentration factor<br/>(BCF)No data available.12.4. Mobility in soilNo data available.12.5. Results of PBT and vPvB<br/>assessmentNo data available.12.6. Other adverse effectsNo information available

# 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

## **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

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14.1. UN numberNone14.2. UN proper shipping nameNone14.3. Transport hazard class(es)None14.4. Packing groupNone14.5. Environmental hazardsNo14.6. Special precautions for<br/>userNot applicable

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

## **15. REGULATORY INFORMATION**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Global Inventories**

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippin es (PICCS)		TSCA: United States
Magnesium Hydroxide	1309-42-8	215-170-3	01-211948875 6-18-0040	Y	Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	Y	Y	Y	A
Zinc Molybdenum Oxide	22914-58- 5 61583-60- 6	245-322-4	01-212080048 1-68-0000		Y: DSL-229 14-58 -5 NDSL: 61583-60 -6	Y	(1)-781 (ENCS)(IS HL)	KE-11910	Y: (MO-gen erics)	Y	Y	Y	A
Surface Treatment	Proprietary	-		Y	Y	Y	Y	Y	Y	Y	Y	Y	A

### **16. OTHER INFORMATION**

Prepared by	Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com.
GHS Classification	Considered a hazardous substance or mixture according to the Globally Harmonized System (GHS)
Physical Hazard	Not classified
Health Hazards	Specific target organ toxicity (STOT) - repeated exposure, category 2

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**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