

#### Kemgard® 928

GHS (Globally Harmonized System)

Measures on the Management of Toxic Chemical Substances Labelling and Safety Data Sheets. December 11, 2014.

Issue Date 01/Jan/2024 Revision Number 1.4.3

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### Section 1: Identification: Product identifier and chemical identity

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

### **SECTION 2: Hazards identification**

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

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Pure substance/mixture Mixture

**GHS Classification** Considered a hazardous substance or mixture according to the Globally

Harmonized System (GHS)

Hazards identification

**Physical Hazard** Not classified

Specific target organ toxicity (STOT) - repeated exposure, category 2 **Health Hazards** 

Chronic Aquatic Toxicity Category 3 **Environmental Hazard** 

2.2. Label elements

Symbols/Pictograms



Signal Word Warning

May cause damage to organs through prolonged or repeated exposure **Hazard Statements** 

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

Get medical advice/attention if you feel unwell Response

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

Keep in a dry place. Storage

Dispose of contents/containers in accordance with local regulations. See Section **Disposal** 

13: DISPOSAL CONSIDERATIONS.

2.3. Other hazards No information available.

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

3.2. Mixture Mixture

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Chemical Name	CAS Number	Taiwan	Taiwan - GHS	EU REACH	Weight-%	
				registration number		
Magnesium Hydroxide	1309-42-8	Υ	Not classified	01-2119488756-18-00	>50	
				40		
Zinc Molybdenum Oxide	22914-58-5	Y	Acute Tox. 4, H332	01-2120800481-68-00	>5	
	61583-60-6		STOT RE 2, H373	00		
			Aquatic Acute 1, H400			
			Aquatic Chronic 2,			
			H411			
Surface Treatment	Proprietary	Y	Not classified		<1	

### **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.

In case of eye contact, remove contact lens and rinse immediately with plenty of **Eye Contact** 

water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash with plenty of soap and water.

Do not breathe dust. IF INHALED: Remove to fresh air and keep at rest in a Inhalation

position comfortable for breathing.

Rinse mouth thoroughly with water. Ingestion

Not an expected route of exposure. **Aspiration hazard** 

**Notes to Physician** Treat symptomatically.

4.2. Most important symptoms and effects, both acute and

delayed

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can

cause mechanical irritation or drying of the skin.

medical attention and special

treatment needed

4.3. Indication of any immediate Treat symptomatically. 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

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

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dioxide (CO2).

**Unsuitable Extinguishing Media** 

None known.

5.2. Special hazards arising from the substance or mixture

Non-combustible.

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.

### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. Use personal protection

recommended in Section 8. 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.

### **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

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 **including any incompatibilities** Store away from incompatible materials

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# **SECTION 8: Exposure controls/personal protection**

**Engineering Controls:** 

**Exposure Limit Values** Magnesium Hydroxide

> Taiwan OEL: Not established

**ACGIH** TLV-TWA: 8-hr: 10 mg/m3 (total dust)

3 mg/m³ (respirable fraction) TWA: 15 mg/m3 total dust 5 mg/m3 respirable

Zinc Molybdenum Oxide

**OSHA** 

**OSHA** 

OEL: 5 mg/m<sup>3</sup> Taiwan TWA: 10 mg/m3 dust **ACGIH** 

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)

**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** 

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

**Skin and Body Protection** Use suitable protective clothing, gloves and footwear, selected with regard for use

conditions and exposure.

**Hand Protection** Impervious gloves: chemical resistant EN 420

**Respiratory Protection:** In case of exposure to high levels of airborne dust, wear a respirator

EN 149, P2 half masks.

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

This product does not present any particular risk for the environment. **Environmental Exposure** 

Check the appropriate national and local regulations. Prevent entry into sewers

and waterways.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Appearance:

Solid Powder **Physical State** Color White

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Odorless Odor

No information available **Odor Threshold** 

No data available :Ha Melting point / Freezing point Not applicable Freezing Point Not applicable Flash Point Non-combustible **Evaporation Rate** Not applicable. Flammability (solid, gas) Not applicable

**Upper flammability limit:** Lower flammability limit:

**Vapor Pressure** Not applicable **Vapor Density** Not applicable Not applicable **Vapor Density** 2.4 g/cm3, 20°C **Density Relative Density** No data available 11.7 mg/l, 25° C Water Solubility

Solubility in other solvents No information available **Partition coefficient** No data available **Autoignition Temperature** Not applicable **Decomposition Temperature** 626 °F (330° C)

No information available. **Viscosity** 

Kinematic viscosity Not applicable **Oxidizing Properties** Not applicable

**Particle Size** No information available

Not applicable **VOC Content (%)** 

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

Not applicable

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

Stable under normal conditions 10.1. Reactivity

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 None known

products

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# **SECTION 11: Toxicological information**

**General Information** Users are advised to consider national Occupational Exposure Limits or other

equivalent values.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Magnesium Hydroxide

Oral LD50 8500 mg/kg Rat

Zinc Molybdenum Oxide

Oral LD50 >10000 mg/kg Rat

**IARC** Not Listed

Kidney (based on tubular degeneration/regeneration of male Han Wistar rats at **Target Organ Effects** 

125 mg/kg/day)

**Surface Treatment** 

Oral LD50 2830 µL/kg (rat)

**Acute Toxicity** Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met. **Chronic Toxicity** 

Based on available data, the classification criteria are not met **Respiratory Sensitization** 

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.

Information on Likely Routes of Exposure

Avoid inhalation of the product Inhalation

Ingestion Ingestion is not a likely route of exposure

Skin Prolonged or repeated contact may dry skin and cause irritation

**Eyes** Dust contact with the eyes can lead to mechanical irritation

**Aspiration hazard** Not an expected route of exposure.

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11.2. Information on other hazards

11.2.1. Endocrine disrupting This product does not contain any known or suspected endocrine disruptors

properties

11.2.2. Other information Not applicable

### **SECTION 12: Ecological information**

12.1. Toxicity 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 No.

degradability

No data available.

**12.3. Bioaccumulative potential** No data available.

Partition coefficient No data available

**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. Endocrine disrupting

properties

This product does not contain any known or suspected endocrine disruptors

# **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

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the product was used

Magnesium Hydroxide

**European Waste Catalog** 060299

WGK Classification (AwSV) 5209 WGK: nwg

# **SECTION 14: Transport information**

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

**TDG** -Canada Not regulated Not regulated DOT ADR Not regulated Not regulated RID Not regulated **ADN** Not regulated IATA IMDG/IMO Not regulated **ICAO** Not regulated

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

None 14.4. Packing group

14.5. Environmental hazards No

14.6. Special precautions for Not applicable

user

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### **SECTION 15: Regulatory information**

#### **Global Inventories**

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
Magnesium Hydroxide	1309-42-8	215-170-3	01-211948 8756-18-0 040		Y	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	Y	Y	Υ	Α
Zinc Molybdenum Oxide	22914-58- 5 61583-60- 6		01-212080 0481-68-0 000		Y: DSL-2291 4-58 -5 NDSL:	Y	(1)-781 (ENCS)(IS HL)	KE-11910	Y: (MO-gene rics)	Y	Y	Υ	A

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				61583-60- 6								
Surface	Proprietar	-	 Υ	Υ	Υ	Υ	Υ	Υ	Y	Y	Υ	Α
Treatment	У											

### **SECTION 16: Other information**

CP Kelco Global Regulatory Affairs Prepared by

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Atlanta, GA 30339 USA Tel: +1 678 247-7300.

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**GHS Classification** Considered a hazardous substance or mixture according to the Globally

Harmonized System (GHS)

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

Hazards identification

**Physical Hazard** Not classified

**Health Hazards** Specific target organ toxicity (STOT) - repeated exposure, category 2

Chronic Aquatic Toxicity Category 3 **Environmental Hazard** 

IARC (International Agency for Research on Cancer) Abbreviations and acronyms

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)

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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 (Chemical oxygen demand)

ICAO (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 Rail)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

GHS (Globally Harmonized System)

SARA (Superfund Amendments and Reauthorization Act of 1986)

TSCA (Toxic Substances Control Act)

**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**