

Kemgard® 928

GHS (Globally Harmonized System)

Issue Date 01/Jan/2024 Revision Number 1.4.3

Print Date 13/Dec/2023

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

1.1. Product identifier

Product Name: Kemgard® 928

Pure substance/mixture Mixture

Magnesium Hydroxide

CAS Number 1309-42-8

EU REACH registration 01-2119488756-18-0040

number

Zinc Molybdenum Oxide

CAS Number 22914-58-5

61583-60-6

EU REACH registration

number

01-2120800481-68-0000

Surface Treatment

CAS Number Proprietary

EU REACH registration

number

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 customer.request@cpkelco.com

1.4. Emergency telephone

number

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

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SECTION 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)

Hazards identification

Physical Hazard Not classified

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

Environmental Hazard Chronic Aquatic Toxicity Category 3

2.2. Label elements

Symbols/Pictograms



Signal Word Warning

Hazard Statement 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

Store away from incompatible materials. Keep in a dry place. Storage

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

13: DISPOSAL CONSIDERATIONS.

SECTION 3: Composition/information on ingredients

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Pure substance/mixture Mixture

Chemical Name	CAS Number	TSCA: United States	EU REACH registration number
Magnesium Hydroxide	1309-42-8	A	01-2119488756-18-0040
Zinc Molybdenum Oxide	22914-58-5	A	01-2120800481-68-0000
	61583-60-6		
Surface Treatment	Proprietary	A	

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.

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

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

position comfortable for breathing.

Ingestion Rinse mouth thoroughly with water.

Aspiration hazard Not an expected route of exposure.

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 dioxide (CO2).

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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

8.1. Control parameters

Occupational exposure limits

Biological Limit Values None

Recommended monitoring

procedures

Refer also to national guidance documents for information on currently

recommended monitoring procedures

8.2. Exposure controls

Do not handle until all safety precautions have been read and understood **Engineering Measures**

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.

Thermal hazards None known.

No information available **Hygiene Measures**

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:

Solid Powder **Physical State** Color White Odor Odorless

No information available **Odor Threshold** No data available

Not applicable Melting point / Freezing point **Freezing Point** Not applicable **Flash Point** Non-combustible

Evaporation Rate Not applicable.

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Flammability (solid, gas) Not applicable

Upper flammability limit: Lower flammability limit:

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

Solubility in other solvents No information available Partition coefficient No data available

Autoignition Temperature Not applicable 626 °F (330° C) **Decomposition Temperature**

Viscosity No information available.

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

No information available **Particle Size**

VOC Content (%) Not applicable

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

Stable under normal conditions 10.2. Chemical stability

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

SECTION 11: Toxicological information

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equivalent values.

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

Magnesium Hydroxide

8500 mg/kg Rat Oral LD50

Zinc Molybdenum Oxide

Oral LD50 >10000 mg/kg Rat

Not Listed **IARC**

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

125 mg/kg/day)

Surface Treatment

2830 µL/kg (rat) Oral LD50

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

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

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

Based on available data, the classification criteria are not met. **Reproductive Effects**

Not listed as a carcinogen. Carcinogenicity

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

Inhalation Avoid inhalation of the product

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.

11.2. Information on other hazards

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

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11.2.2. Other information Not applicable

SECTION 12: Ecological information

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

Magnesium Hydroxide

WGK Classification (AwSV) 5209 WGK: nwg

12.2. Persistence and

degradability

No data available.

12.3. Bioaccumulative potential No data available.

No data available Partition coefficient

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 should be in accordance with applicable regional, national and local laws **Disposal Methods**

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

Magnesium Hydroxide

European Waste Catalog 060299

WGK Classification (AwSV) 5209 WGK: nwg

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SECTION 14: Transport information

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

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

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

Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	Australia (AIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	Thailand (TECI)		Philippine s (PICCS)	Taiwan	TSCA: United States
Magnesium Hydroxide		215-170-3		Υ	Y	(1)-386 (ENCS) (ISHL)	KE-22716	Y	55-1-0134 3	Y	Y	Υ	Α
Zinc Molybdenum Oxide	22914-58- 5 61583-60- 6	245-322-4		Y: DSL-2291 4-58 -5 NDSL: 61583-60- 6	Y	(1)-781 (ENCS)(IS HL)	KE-11910	Y: (MO-gene rics)	Y	Y	Y	Y	A
Surface Treatment	Proprietar y	-	Y	Υ	Y	Y	Y	Y	55-1-0619 7	Y	Y	Υ	Α

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Magnesium Hydroxide

EU REACH registration number 01-2119488756-18-0040 **Turkish KKDIK pre-registration** 05-0000192735-90-0000

Zinc Molybdenum Oxide

EU REACH registration number 01-2120800481-68-0000

Surface Treatment

EU REACH registration number --

<u>Germany</u>

Harmful to aquatic life with long lasting effects Avoid release to the environment

Magnesium Hydroxide

WGK Classification (AwSV) 5209 WGK: nwg

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

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

Environmental Hazard Chronic Aquatic Toxicity Category 3

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)

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WHMIS (Workplace Hazardous Materials Information System)

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)

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)

Land transport (ADR/RID)

BOD (Biochemical oxygen demand)

COD (Chemical oxygen demand)

ICAO (International Civil Aviation Organization)

IMDG (International Maritime Dangerous Goods)

SCBA (Self-Contained Breathing Apparatus) Positive Pressure

PNEC (Predicted No Effect Concentration)

GHS (Globally Harmonized System)

Disclaimer

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End of Safety Data Sheet