



**ADVANCED  
MATERIALS**

# Safety Data Sheet

Malaysia CLASS Regulation, 2013  
GHS (Globally Harmonized System)

Issue Date 01/Jan/2024  
Print Date 13/Dec/2023

Revision Number 1.6.1

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

### 1.1. Product identifier

**Product Name:** Kemgard® 1100

**Pure substance/mixture** Mixture

#### Talc

**CAS Number** 14807-96-6

**Weight-%** 75 - 90

#### Zinc Molybdenum Oxide

**CAS Number** 22914-58-5

61583-60-6

**Weight-%** 10 - 25

#### Crystalline Silica, quartz (impurity)

**CAS Number** 14808-60-7

**Weight-%** <0.1

### 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](http://www.huberadvancedmaterials.com)

**E-mail** [hubermaterials@huber.com](mailto: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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**Kemgard® 1100****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.6.1**Page** 2 of 11**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. Store away from incompatible materials.

**Disposal**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Additional Information:**

Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1).

**2.3. Other hazards**

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Pure substance/mixture**

Mixture

Chemical Name	CAS Number	TSCA: United States	EU REACH registration number	Weight-%
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Talc	14807-96-6	A	Exempt	75 - 90
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	A	01-2120800481-68-0000	10 - 25
Crystalline Silica, quartz (impurity)	14808-60-7	A	Exempt	<0.1

## 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**

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

**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 (CO<sub>2</sub>).

**Unsuitable Extinguishing Media**

Do not use water jetstream.

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## 5.2. Special hazards arising from the substance or mixture

Heating can release hazardous gases.

## 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, including any incompatibilities** Keep container tightly closed and dry. Store away from incompatible materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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## 8.1. Control parameters

### Occupational exposure limits

#### Talc

ACGIH

TWA: 2 mg/m<sup>3</sup> (respirable dust)

OSHA

TWA: 20 mppcf

#### Zinc Molybdenum Oxide

Malaysia

TWA: 5 mg/m<sup>3</sup>

NIOSH

8-hr TWA: 10 mg/m<sup>3</sup>

ACGIH

TWA: 10 mg/m<sup>3</sup> dust0.5 mg/m<sup>3</sup> Respirable fraction

OSHA

TWA: 5 mg/m<sup>3</sup> (respirable); 10 mg/m<sup>3</sup> (dust)PEL: 5 mg/m<sup>3</sup> (respirable)

#### Crystalline Silica, quartz (impurity)

NIOSH

0.05 mg/m<sup>3</sup> TWA (respirable dust)

ACGIH

TWA: 0.025 mg/m<sup>3</sup> respirable fraction

OSHA

TWA: 0.05 mg/m<sup>3</sup>OSHA Action level: 0.025 mg/m<sup>3</sup>

### Biological Limit Values

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

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

### Environmental Exposure Controls

Dispose of in accordance with local regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**9.1. Information on basic physical and chemical properties****Appearance:**

Physical State	Solid Powder
Color	White
Odor	Odorless
Odor Threshold	No information available
pH:	6.5
Melting Point / Melting Range	No information available
Initial boiling point	No information available
Freezing Point	No information available
Boiling Point	No information available
Flash Point	No data available.
Evaporation Rate	Not applicable.
Flammability (solid, gas)	Not applicable
Upper flammability limit:	
Lower flammability limit:	
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	2.8 g/cm <sup>3</sup>
Water Solubility	Slightly soluble
Solubility in other solvents	No information available
Partition coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No information available
Viscosity	No information available.
Molecular Weight	Not available
Molecular Weight	Not available
Specific Gravity	2.8 (H <sub>2</sub> O = 1)
VOC Content (%)	0%

**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	None under normal processing
10.4. Conditions to avoid	Incompatible materials Dust formation
10.5. Incompatible materials	Strong oxidizing agents Strong acids
10.6. Hazardous decomposition products	None known

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## 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
Ingestion	Ingestion is not a likely route of exposure
Aspiration hazard	Not an expected route of exposure.

### 11.1. Information on toxicological effects

#### Zinc Molybdenum Oxide

Oral LD50 >10000 mg/kg Rat

IARC Not Listed

Specific target organ toxicity - Repeated exposure Kidney (based on tubular degeneration/regeneration of male Han Wistar rats at 125 mg/kg/day). NOAEL – 60 mg/kg Rat; Oral; 90-day.

#### Crystalline Silica, quartz (impurity)

Oral LD50 500 mg/kg Rat Mouse

ACGIH Group 2A - Probably Carcinogenic to Humans

IARC Group 1 - Carcinogenic to Humans

### Acute Toxicity

Avoid inhalation of dust. Product dust may be irritating to eyes, skin and respiratory system

### Reproductive Toxicity

No data available.

### Carcinogenicity

Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1).

### Target Organ Effects

Skin. Eyes. Respiratory system.

### Specific target organ toxicity - Single exposure

No data 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.

### Talc

**WGK Classification (AwSV)** 1315 WGK: nwg

### Crystalline Silica, quartz (impurity)

**WGK Classification (AwSV)** 849 WGK: nwg

**12.2. Persistence and degradability** Not readily biodegradable.

**12.3. Bioaccumulative potential** No information available.

**Partition coefficient** No data available

**Bioconcentration factor (BCF)** No data available.

**12.4. Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment** This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects** No 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

### Talc

**WGK Classification (AwSV)** 1315 WGK: nwg

### Crystalline Silica, quartz (impurity)

**WGK Classification (AwSV)** 849 WGK: nwg



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## 14. TRANSPORT INFORMATION

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

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 user Not 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 (AIIIC)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Talc	14807-96-6	238-877-9	Exempt	Y	Y	Y	(1)-468 (ENCS)(IS HL)	KE-32773	Y	Y	Y	Y	A
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	245-322-4	01-212080048 1-68-0000	N	Y	Y	(1)-781 (ENCS)(IS HL)	KE-11910	N	N	N	Y	A
Crystalline Silica, quartz (impurity)	14808-60-7	238-878-4	Exempt	Y	Y	Y	(1)-548 (ENCS)(ISHL)	KE-29983	Y	Y	Y	Y	A

## 16. OTHER INFORMATION

Prepared by

Huber Engineered Materials Global Regulatory Affairs  
(Email – HEM.FRAREgulatory@huber.com).

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**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

**Environmental Hazard** Chronic Aquatic Toxicity Category 3

**Labeling****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

**Training Advice** Do not handle until all safety precautions have been read and understood

**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)  
WHMIS (Workplace Hazardous Materials Information System)  
DOT (Department of Transportation)  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
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  
PNEC (Predicted No Effect Concentration)  
GHS (Globally Harmonized System)  
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,

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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**