



## Kemgard® 1100

GHS (Globally Harmonized System)

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

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

#### 1.1. Product identifier

**Product Name:** Kemgard® 1100

**Pure substance/mixture** Mixture

#### Talc

**CAS Number** 14807-96-6

**EU REACH registration number** Exempt

#### Zinc Molybdenum Oxide

**CAS Number** 22914-58-5

**EU REACH registration number** 61583-60-6  
01-2120800481-68-0000

#### Crystalline Silica, quartz (impurity)

**CAS Number** 14808-60-7

**EU REACH registration number** Exempt

#### 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

# Safety Data Sheet

Kemgard® 1100

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

Revision Number 1.6.1  
Page 2 of 11

## 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

**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 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

**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).

## SECTION 3: Composition/information on ingredients

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 3 of 11

Pure substance/mixture

Mixture

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

## 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.

**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.

**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.

**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.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable Extinguishing Media

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 4 of 11

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.

**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.

## 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

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 5 of 11

including any incompatibilities Store away from incompatible materials

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Crystalline Silica, quartz (impurity)

Thailand

(250/(%SiO<sub>2</sub> + 5)) mppcf TWA, respirable; (10/(%SiO<sub>2</sub> + 2)) mg/m<sup>3</sup> TWA, respirable; (30/(%SiO<sub>2</sub> + 2)) mg/m<sup>3</sup> TWA, total dust

#### 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.

#### Thermal hazards

None known.

#### Hygiene Measures

Follow general hygiene considerations recognized as common good workplace practices

#### 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:

Physical State

Solid Powder

Color

White

Odor

Odorless

Odor Threshold

No information available

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 6 of 11

|                                       |                            |
|---------------------------------------|----------------------------|
| <b>pH:</b>                            | 6.5                        |
| <b>Melting Point / Melting Range</b>  | No information available   |
| <b>Melting point / Freezing point</b> | Not applicable             |
| <b>Initial boiling point</b>          | No information available   |
| <b>Boiling Point</b>                  | No information available   |
| <b>Freezing Point</b>                 | No information available   |
| <b>Flash Point</b>                    | No data available          |
| <b>Evaporation Rate</b>               | Not applicable.            |
| <b>Flammability (solid, gas)</b>      | Not applicable             |
| <b>Upper flammability limit:</b>      | --                         |
| <b>Lower flammability limit:</b>      | --                         |
| <b>Vapor Pressure</b>                 | No data available          |
| <b>Vapor Density</b>                  | Not applicable             |
| <b>Vapor Density</b>                  | No data available          |
| <b>Density</b>                        | No data available          |
| <b>Relative Density</b>               | 2.8 g/cm <sup>3</sup>      |
| <b>Water Solubility</b>               | Slightly soluble           |
| <b>Solubility in other solvents</b>   | No information available   |
| <b>Partition coefficient</b>          | No data available          |
| <b>Autoignition Temperature</b>       | No data available          |
| <b>Decomposition Temperature</b>      | No information available   |
| <b>Viscosity</b>                      | No information available.  |
| <b>Kinematic viscosity</b>            | Not applicable             |
| <b>Oxidizing Properties</b>           | Not applicable             |
| <b>Particle Size</b>                  | No information available   |
| <b>Molecular Weight</b>               | Not available              |
| <b>Molecular Weight</b>               | Not available              |
| <b>Specific Gravity</b>               | 2.8 (H <sub>2</sub> O = 1) |
| <b>VOC Content (%)</b>                | 0%                         |

## 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

|   |   |
|---|---|
| <b>10.1. Reactivity</b>                         | Stable under normal conditions          |
| <b>10.2. Chemical stability</b>                 | Stable under normal conditions          |
| <b>10.3. Possibility of hazardous reactions</b> | None under normal processing            |
| <b>10.4. Conditions to avoid</b>                | Incompatible materials Dust formation   |
| <b>10.5. Incompatible materials</b>             | Strong oxidizing agents<br>Strong acids |

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 7 of 11

**10.6. Hazardous decomposition** None known products

## 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

#### Talc

**NTP (National Toxicology Program)** male rat-some evidence; female rat-clear evidence; male mice-no evidence; female mice-no evidence

#### 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)

**LD50s and LC50s** 500 mg/kg Oral LD50 Rat

**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.

#### Information on Likely Routes of Exposure

**Inhalation** Avoid inhalation of the product

**Ingestion** Ingestion is not a likely route of exposure

# Safety Data Sheet

**Kemgard® 1100**

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 8 of 11

|                          |   |
|--------------------------|---|
| <b>Skin</b>              | Prolonged or repeated contact may dry skin and cause irritation |
| <b>Eyes</b>              | Dust contact with the eyes can lead to mechanical irritation    |
| <b>Aspiration hazard</b> | Not an expected route of exposure.                              |

## 11.2. Information on other hazards

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

**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

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods



# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 9 of 11

|                               |  |
|-------------------------------|--|
| <b>Disposal Methods</b>       | Disposal should be in accordance with applicable regional, national and local laws and regulations.  |
| <b>Contaminated Packaging</b> | Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| <b>Waste codes</b>            | 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

## SECTION 14: Transport information

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

|                    |               |
|--------------------|---------------|
| <b>TDG -Canada</b> | Not regulated |
| <b>DOT</b>         | Not regulated |
| <b>IATA</b>        | Not regulated |
| <b>IMDG/IMO</b>    | Not regulated |
| <b>ICAO</b>        | Not regulated |

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. 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 | EC No | Australia | Canada | China | Japan | S. Korea | Mexico | Thailand | New | Philippine | Taiwan | TSCA: |
|---------------|-----|-------|-----------|--------|-------|-------|----------|--------|----------|-----|------------|--------|-------|

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 10 of 11

|                                       | Number                   |           | (AIC) | (DSL) | (IECSC) |                      | (KECL)   |   | (TECI)     | Zealand | s (PICCS) |   | United States |
|---------------------------------------|--------------------------|-----------|-------|-------|---------|----------------------|----------|---|------------|---------|-----------|---|---------------|
| Talc                                  | 14807-96-6               | 238-877-9 | Y     | Y     | Y       | (1)-468 (ENCS)(ISHL) | KE-32773 | Y | 55-1-01940 | Y       | Y         | Y | A             |
| Zinc Molybdenum Oxide                 | 22914-58-5<br>61583-60-6 | 245-322-4 | N     | Y     | Y       | (1)-781 (ENCS)(ISHL) | KE-11910 | N | Y          | N       | N         | Y | A             |
| Crystalline Silica, quartz (impurity) | 14808-60-7               | 238-878-4 | Y     | Y     | Y       | (1)-548(E NCS)(ISHL) | KE-29983 | Y | 55-1-01941 | Y       | Y         | Y | A             |

## Talc

EU REACH registration number Exempt

## Zinc Molybdenum Oxide

EU REACH registration number 01-2120800481-68-0000

Turkish KKDIK pre-registration 05-0000192714-03-0000

## Crystalline Silica, quartz (impurity)

EU REACH registration number Exempt

## Germany

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

## 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

## SECTION 16: Other information

### Prepared by

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

### GHS Classification

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

### Symbols/Pictograms



### Signal Word

Warning

# Safety Data Sheet

**Kemgard® 1100****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.6.1**Page 11 of 11****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)  
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**

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**