



**Kemgard® 1100**

Prepared in accordance with GB/T 16483-2008, GB/T 24774-2009, GB 13690 – 2009, GB/T 17519–2013  
GHS (Globally Harmonized System)

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 1 of 11

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Kemgard® 1100
Pure substance/mixture	Mixture
<u>Talc</u>	
CAS Number	14807-96-6
Weight-%	75 - 90
<u>Zinc Molybdenum Oxide</u>	
CAS Number	22914-58-5
	61583-60-6
Weight-%	10 - 25
<u>Crystalline Silica, quartz (impurity)</u>	
CAS Number	14808-60-7
Weight-%	<0.1
Recommended Use	Flame retardant Smoke suppressant
Uses advised against	None known
Company:	J.M. Huber Corporation 3100 Cumberland Boulevard, Suite 600 Atlanta, GA 30339 USA Tel: +1 678 247-7300
Emergency Telephone	CHEMTREC China: 4001-204937 (Mandarin) Local call: +86 532 5879 2008
E-mail	hubermaterials@huber.com
Internet	www.huberadvancedmaterials.com
Registration Number	No information available

## Section 2: HAZARDS IDENTIFICATION

### GHS Classification

Physical Hazard	Not classified
Health Hazard	Acute toxicity - Inhalation Category 5 Specific target organ toxicity (STOT) - repeated exposure, category 2

# Safety Data Sheet

**Kemgard® 1100****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.6.1**Page** 2 of 11**Environmental Hazard**Chronic Aquatic Toxicity, Category 3  
Acute Aquatic Toxicity Category 2**Label Elements****Symbols/Pictograms****Signal Word**

Warning

**Hazard Statement**May be harmful if inhaled  
May cause damage to organs through prolonged or repeated exposure  
Toxic to aquatic life  
Harmful to aquatic life with long lasting effects**Precautionary Statements****Prevention**Observe good industrial hygiene practices.  
Avoid breathing dust.  
Use mechanical ventilation (dilution and local exhaust) to control exposure  
Avoid release to the environment**Response**Get medical help if you feel unwell  
IF ON SKIN: Wash with plenty of soap and water  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
IF INHALED: Get medical help.**Spills and Leaks**

Collect spillage

**Storage**Store in a dry place  
Store away from incompatible materials.**Disposal**

Dispose in accordance with local, state and national 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).

**Hazards not otherwise classified** None known  
(HNOC)

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 3 of 11

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Mixture

Chemical Name	CAS Number	China (IECSC)	China classification	TSCA: United States	EU REACH registration number	Weight-%
Talc	14807-96-6	Y	Not classified	A	Exempt	75 - 90
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	Y	Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	A	01-2120800481-68 -0000	10 - 25
Crystalline Silica, quartz (impurity)	14808-60-7	Y	Carcinogenicity category 1A Respiratory system	A	Exempt	<0.1

## Section 4: FIRST AID MEASURES

**General Advice**

In case of doubt or when symptoms persist, seek medical attention.

**Eye Contact**

Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.

**Skin Contact**

IF ON SKIN: 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

**Notes to Physician**

Treat symptomatically

**Personal Protective Equipment  
For First Aid Responders**

Wear suitable protective clothing

IF exposed or concerned: Get medical advice/attention

**Expected acute symptoms and  
delayed symptoms**

None known

## Section 5: FIRE FIGHTING MEASURES

**Flammable Properties**

None known

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Do not use water jetstream

# Safety Data Sheet

**Kemgard® 1100**

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 4 of 11

**Specific Hazards Arising from the Chemical** Heating can release hazardous gases

**Unusual fire & explosion hazards:** None

**Protective Equipment and Precautions for Firefighters** Wear self-contained breathing apparatus and protective suit

## Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Ensure adequate ventilation. Avoid dust formation. Avoid inhalation of dust. Refer to Section 8 for personal protective equipment.

**Environmental Precautions** Prevent from entering into soil, ditches, sewers and waterways.

**Methods for cleaning up** Sweep or vacuum spilled material Dispose of according to local and regional authority requirements

**Other Information:** None known

## Section 7: HANDLING AND STORAGE

**Handling** In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation. Handle in accordance with good industrial hygiene and safety practice.

**Storage** Keep container tightly closed in a dry and well-ventilated place

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits** Provide adequate ventilation as well as local exhaust at critical locations

### Talc

China

TWA: 3 mg/m<sup>3</sup> (total dust)1 mg/m<sup>3</sup> (respirable dust)

ACGIH

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

OSHA

TWA: 20 mppcf

### Zinc Molybdenum Oxide

China

TWA: 8-hour: 4 mg/m<sup>3</sup>

China

STEL: Not established

ACGIH

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

NIOSH

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

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)

China

TWA: 0.5 mg/m<sup>3</sup> (total dust)0.2 mg/m<sup>3</sup> (respirable dust)

ACGIH

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

NIOSH

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

# Safety Data Sheet

**Kemgard® 1100****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.6.1**Page** 5 of 11**OSHA**TWA: 0.05 mg/m<sup>3</sup>  
OSHA Action level: 0.025 mg/m<sup>3</sup>**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**

Protective gloves

**Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice Wash hands and face before breaks and immediately after handling the product.

**Environmental Exposure Controls**

Dispose of in accordance with local regulations

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**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

# 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>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>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%

## Section 10: STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions
<b>Conditions to avoid:</b>	Incompatible materials Dust formation
<b>Incompatible materials</b>	Strong oxidizing agents Strong acids
<b>Hazardous decomposition products</b>	None known
<b>Hazardous Reactions</b>	None under normal processing
<b>Hazardous polymerization:</b>	Hazardous polymerization does not occur

## Section 11: TOXICOLOGICAL INFORMATION

<b>General Information</b>	Users are advised to consider national Occupational Exposure Limits or other equivalent values.
----------------------------	---

### Product Information

#### Information on Likely Routes of Exposure

<b>Eyes</b>	Dust contact with the eyes can lead to mechanical irritation
<b>Skin</b>	Prolonged or repeated contact may dry skin and cause irritation
<b>Inhalation</b>	Avoid inhalation of the product
<b>Ingestion</b>	Ingestion is not a likely route of exposure
<b>Aspiration hazard</b>	Not an expected route of exposure.

#### 11.1. Information on toxicological effects

# Safety Data Sheet

**Kemgard® 1100****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.6.1**Page** 7 of 11**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

<b>Acute Toxicity</b>	Avoid inhalation of dust. Product dust may be irritating to eyes, skin and respiratory system
<b>Reproductive Toxicity</b>	No data available.
<b>Carcinogenicity</b>	Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1).
<b>Target Organ Effects</b>	Skin. Eyes. Respiratory system.
<b>Specific target organ toxicity - Single exposure</b>	No data available.
<b>Specific target organ toxicity - Repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure if inhaled. Kidney.

## Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Harmful to aquatic life with long lasting effects. Avoid release to the environment.
<b>Persistence/Degradability:</b>	Not readily biodegradable.
<b>Bioaccumulative Potential</b>	No information available.
<b>Partition coefficient</b>	No data available
<b>Bioconcentration factor (BCF)</b>	No data available.
<b>Mobility in soil</b>	No information available.
<b>Results of PBT and vPvB assessment</b>	This substance does not meet the criteria for classification as PBT or vPvB.
<b>Other Adverse Effects</b>	No information available

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 8 of 11

## Section 13: DISPOSAL CONSIDERATIONS

**Waste from Residues/Unused Products** Dispose of in accordance with local regulations

**Contaminated Packaging:** Dispose of contents/container to an approved waste disposal plant

## Section 14: TRANSPORT INFORMATION

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

DOT Not regulated  
IATA Not regulated  
IMDG/IMO Not regulated

**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

## Section 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 (AIC)	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-	245-322-4	01-212080048 1-68-0000	N	Y	Y	(1)-781 (ENCS)(IS HL)	KE-11910	N	N	N	Y	A



HUBER

# Safety Data Sheet

Kemgard® 1100

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

Revision Number 1.6.1  
Page 9 of 11

	6												
Crystalline Silica, quartz (impurity)	14808-60-7	238-878-4	Exempt	Y	Y	Y	(1)-548(EN CS)(ISHL)	KE-29983	Y	Y	Y	Y	A

# Safety Data Sheet

**Kemgard® 1100****Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.6.1**Page 10 of 11**

## Section 16: OTHER INFORMATION

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

**Reason for Revision** GB/T 16483-2008  
GB/T 24774-2009  
GB 13690 – 2009  
GB/T 17519–2013

### GHS Classification

**Physical Hazard** Not classified

**Health Hazard** Acute toxicity - Inhalation Category 5  
Specific target organ toxicity (STOT) - repeated exposure, category 2

**Environmental Hazard** Chronic Aquatic Toxicity, Category 3  
Acute Aquatic Toxicity Category 2

### Label Elements

#### Symbols/Pictograms



**Signal Word** Warning

**Hazard Statement** May be harmful if inhaled  
May cause damage to organs through prolonged or repeated exposure  
Toxic to aquatic life  
Harmful to aquatic life with long lasting effects

### 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)

# Safety Data Sheet

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

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)  
SCBA (Self-Contained Breathing Apparatus) Positive Pressure  
GHS (Globally Harmonized System)  
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)  
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**