



**Kemgard® 1100**

**Japan-JIS Z 7253:2019  
Occupational Safety and Health Act  
GHS (Globally Harmonized System)**

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

**Revision Number** 1.6.1  
**Page 1 of 9**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**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

**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

**Internet** [www.huberadvancedmaterials.com](http://www.huberadvancedmaterials.com)

**E-mail** [hubermaterials@huber.com](mailto:hubermaterials@huber.com)

**Emergency Telephone Number** CHEMTREC: +1 800 424 9300 or International +1 703 527 3887  
+81 03-3560-7316

**2. HAZARD IDENTIFICATION**

**Japan GHS Classification**

**Physical Hazards** Not classified

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

**Environmental Hazards** Chronic Aquatic Toxicity, Category 3

**GHS label elements**  
**Symbols/Pictograms**

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 2 of 9



**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 breathe vapor or mist  
Employ good industrial hygiene practice  
Wash hands thoroughly after handling  
Avoid release to the environment

**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  
Get medical help if you feel unwell

**Storage**

Store away from incompatible materials.  
Keep in a dry place

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Additional Information:**

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

**Emergency Overview**

Treat symptomatically

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Pure substance/mixture**

Mixture

Chemical Name	CAS Number	Japan GHS Classification	Weight-%
Talc	14807-96-6	Not classified	75 - 90
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	10 - 25
Crystalline Silica, quartz (impurity)	14808-60-7	Carcinogenicity category 1A Germ cell mutagenicity category 2 Systemic Toxicity Hazard Category: 1 Respiratory system Immune system Kidney	<0.1

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 3 of 9

## 4. FIRST AID MEASURES

<b>If inhaled:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing
<b>IF ON SKIN:</b>	Wash with plenty of soap and water Take off contaminated clothing and wash before reuse
<b>IF IN EYES:</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Call a physician if irritation develops and persists
<b>If swallowed:</b>	Rinse mouth thoroughly with water
<b>Self-Protection of the First Aider</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
<b>Notes to Physician</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Water spray (fog) Foam Dry chemical Carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable Extinguishing Media</b>	Do not use water jetstream
<b>Special hazards arising from the substance or mixture</b>	Avoid dust formation
<b>Fire-fighting measures</b>	In case of fire and/or explosion do not breathe fumes Water mist may be used to cool closed containers Keep unauthorized personnel away
<b>Special Protective Equipment for Firefighters</b>	Wear self-contained breathing apparatus and protective suit

## 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Equipment and Precautions for Firefighters</b>	Avoid dust formation Ensure adequate ventilation Use personal protection recommended in Section 8 Avoid contact with eyes and skin. Wear suitable personal protection equipment. Keep unauthorized personnel away
<b>Environmental Precautions</b>	Keep out of drains, sewers, ditches and waterways Disposal considerations See section 13 for more information

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 4 of 9

## 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 Minimize use of water during clean-up  
 Recommended filter type: High efficiency particulate air filter (HEPA filter)

## Other Information

Not applicable

## 7. HANDLING AND STORAGE

### Handling

#### Technical measures

Provide adequate ventilation as well as local exhaust at critical locations  
 Ensure adequate ventilation  
 Use personal protection equipment  
 See section 8 for more information

#### Advice on safe handling

Minimize dust generation and accumulation

#### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place

#### Hygiene Measures

Wash hands thoroughly after handling

### Storage

#### Packaging compatibilities

Keep/store only in original container

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

Provide adequate ventilation as well as local exhaust at critical locations

### Talc

Japan

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

### Zinc Molybdenum Oxide

Japan

Not established

### Crystalline Silica, quartz (impurity)

Japan

Ceiling: 0.03 mg/m<sup>3</sup> (respirable dust)  
 TWA 0.025 mg/m<sup>3</sup> (respirable fraction)

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas

### Personal Protective Equipment

#### Respiratory Protection

In case of inadequate ventilation wear respiratory protection

#### Hand protection

For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn

#### Eye Protection

Wear safety glasses with side shields (or goggles)

#### Skin and Body Protection

Wear suitable protective clothing.  
 Chemical resistant apron.

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 5 of 9

## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice  
Wash thoroughly after handling  
Avoid contact with eyes and skin  
Do not breathe dust

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None known
Conditions to avoid	Incompatible materials Dust formation
Incompatible materials	Strong oxidizing agents Strong acids
Hazardous decomposition products	None known

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 6 of 9

## 11. TOXICOLOGICAL INFORMATION

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

### Information on Likely Routes of Exposure

<b>Inhalation</b>	Avoid inhalation of the product
<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>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

#### 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

**Ecotoxicity** Harmful to aquatic life with long lasting effects

**Persistence and degradability** No data available

# Safety Data Sheet

Kemgard® 1100

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

Page 7 of 9

Bioaccumulation No data available.

Mobility in soil No data available

Hazardous to the ozone layer No data available

## 13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with federal, state and local regulations

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal

## 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

Global Inventories

Pure substance/mixture Mixture

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)(ISHL)	KE-32773	Y	Y	Y	Y	A
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	245-322-4	01-212080 0481-68-0 000	N	Y	Y	(1)-781 (ENCS)(ISHL)	KE-11910	N	N	N	Y	A
Crystalline Silica,	14808-60-	238-878-4	Exempt	Y	Y	Y	(1)-548(ENCS)(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 8 of 9**

quartz (impurity)	7																		
-------------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

## Legend-Inventories

**KECL** - Korean Existing and Evaluated Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances  
 TSCA (Toxic Substances Control Act)  
 DSL (Domestic Substance List)  
 NDSL (Non-Domestic Substances List)  
 Japan - ISHL Notifiable Substances  
 ENCS - Japan Existing and New Chemical Substances

Japan - ISHL Notifiable Substances  
 Zinc and compounds

## Zinc Molybdenum Oxide

Japanese Pollutant Release and Transfer Register - Class 1 Substance :453 >= 1.0%

## 16. OTHER INFORMATION

<b>Prepared by</b>	Huber Engineered Materials Global Regulatory Affairs (Email – HEM.FRAREgulatory@huber.com)
<b>Reason for Revision</b>	This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)
<b>Bibliography</b>	NITE GHS Classified list Japan Society for occupational health (2015) recommendation of allowable concentrations, etc. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value
<b>Abbreviations and acronyms</b>	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)



HUBER

# Safety Data Sheet

**Kemgard® 1100**

**Issue Date** 01/Jan/2024

**Print Date** 13/Dec/2023

**Revision Number** 1.6.1

**Page 9 of 9**

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, 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**