



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

E-mail 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 statementsMay 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

If inhaled:	Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF ON SKIN:	Wash with plenty of soap and water Take off contaminated clothing and wash before reuse
IF IN EYES:	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
If swallowed:	Rinse mouth thoroughly with water
Self-Protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment and Precautions for Firefighters	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
Environmental Precautions	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/m³ (respirable dust)
2 mg/m³ (total dust)

Zinc Molybdenum Oxide

Japan

Not established

Crystalline Silica, quartz (impurity)

Japan

Ceiling: 0.03 mg/m³ (respirable dust)
TWA 0.025 mg/m³ (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 ₂ 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 ³
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

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

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												
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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

Prepared by

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

Reason for Revision

This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan)

Bibliography

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

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)

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

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End of Safety Data Sheet