



Kemgard® 1100

MoEL's Public Notice No. 2016-19 Standards for Classification and Labeling of Chemical Substances and Safety Data Sheet (SDS)

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

A. 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

B. Recommended use and Limitations on use

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known

C. Supplier information

Company Name J.M. Huber Corporation
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Atlanta, GA 30339 USA
Tel: +1 678 247-7300

E-mail hubermaterials@huber.com

Internet www.huberadvancedmaterials.com

Contact person CHEMTREC

Emergency phone number +1 800 424 9300 International +1 703 527 3887

Section 2: HAZARDS IDENTIFICATION

A. Hazard category/Classification

Physical Hazards Not classified

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

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Environmental Hazards Chronic Aquatic Toxicity Category 3

B. Warning label items including precautionary statement**Label Elements****Symbols/Pictograms****Signal Words**

Warning

Hazard StatementsMay cause damage to organs through prolonged or repeated exposure
Avoid release to the environment**Precautionary statement****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).

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)

None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Mixture

Chemical Name	CAS Number	S. Korea (KECL)	Korean GHS Classification	Weight-%
Talc	14807-96-6	KE-32773	Not classified	75 - 90

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Zinc Molybdenum Oxide	22914-58-5 61583-60-6	KE-11910	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	KE-29983	Carcinogenicity category 1A Category 2	<0.1

Section 4: FIRST AID MEASURES

- A. In case of eye contact** Rinse with water. Get medical attention if irritation develops and persists.
- B. In case of skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.
- C. In case of inhalation** Move to fresh air. Call a physician if symptoms develop or persist.
- D. In case of swallowing** Rinse mouth. Get medical attention if symptoms occur.
- E. Note to physician** Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

A. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
- Unsuitable extinguishing media** Do not use water jetstream

B. Specific hazards arising from the chemical (example: hazardous combustion products)

- Explosion hazard:** None known

C. Specific methods of fire-fighting

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes. Move container from fire area if it can be done without risk.

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency measures Ensure adequate ventilation. Avoid dust formation. See section 8 for more information.

B. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

C. Methods and materials for containment and cleaning up Vacuum or sweep material and place in a disposal

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container.

Section 7: HANDLING AND STORAGE

A. Precautions for safe handling

In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation.

B. Conditions for safe storage (including any incompatibilities)

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limit values, biological limit values, etc

Talc

Korea

TWA: 6 mg/m³2 mg/m³

ACGIH

TWA: 2 mg/m³ (respirable dust)

OSHA

TWA: 20 mppcf

Zinc Molybdenum Oxide

Korea

TWA: 8-hour 0.5 mg/m³

Korea

STEL: Not established

ACGIH

TWA: 10 mg/m³ dust0.5 mg/m³ Respirable fraction

OSHA

TWA: 5 mg/m³ (respirable); 10 mg/m³ (dust)PEL: 5 mg/m³ (respirable)

Crystalline Silica, quartz (impurity)

Korea

TWA: 0.05 mg/m³ respirable fraction

ACGIH

TWA: 0.025 mg/m³ respirable fraction

OSHA

TWA: 0.05 mg/m³OSHA Action level: 0.025 mg/m³

B. Engineering 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

C. Personal protective equipment

- Eye protection
- Hand protection
- Body protection

If contact is likely, safety glasses with side shields are recommended.
For prolonged or repeated skin contact use suitable protective gloves.
Wear suitable protective clothing.

Hygiene Measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

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clothing and protective equipment to remove contaminants.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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:	No data available
Lower flammability limit:	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	2.8 g/cm ³
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
Kinematic viscosity	No data available.
Molecular Weight	Not available
Specific Gravity	2.8 (H ₂ O = 1)
VOC Content (%)	0%

Section 10: STABILITY AND REACTIVITY**A. Stability and hazardous reaction potential**

Stability Stable under normal conditions

Hazardous reaction potential None known

B. Conditions to avoid (e.g. static discharge, shock or Vibration, etc) Avoid creating dust. Incompatible materials.

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C. Incompatible materials Strong oxidizing agents**D. Hazardous decomposition products** No hazardous decomposition products are known.

Section 11: TOXICOLOGICAL INFORMATION

A. Information on likely routes of exposure

- **Respiratory organs** Extended inhalation at levels above the workplace limit value can cause irreversible damage to the lungs (silicosis).
- **Mouth** Not an expected route of exposure
- **Eyes** Dust contact with the eyes can lead to mechanical irritation
- **Skin** Contact with dust can cause mechanical irritation or drying of the skin

B. Information on health hazards

Zinc Molybdenum Oxide

Oral LD50 >10000 mg/kg Rat

Crystalline Silica, quartz (impurity)

Oral LD50 500 mg/kg Rat Mouse

Zinc Molybdenum Oxide

IARC Not Listed

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

Crystalline Silica, quartz (impurity)

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.

Section 12: ECOLOGICAL INFORMATION

A. Ecotoxicity

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Hazardous to the aquatic environment, acute hazard

Not classified

Hazardous to the aquatic environment, long-term hazard

Harmful to aquatic life with long lasting effects

B. Persistence/degradability No data available**C. Bioaccumulative potential** No data available**D. Mobility in soil** No data available**E. Other adverse effects** No data available

Section 13: DISPOSAL CONSIDERATIONS

A. Method of disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be in accordance with applicable regional, national and local laws and regulations

Waste codes Dispose of in accordance with federal, state and local regulations

Section 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

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

A. Method of disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

B. Disposal considerations (including disposal of contaminated containers or packaging) Disposal should be in accordance with applicable regional, national and local laws and regulations

Waste codes Dispose of in accordance with federal, state and local regulations

Section 15: REGULATORY INFORMATION

National Regulations**Talc**

CAS Number 14807-96-6
Weight-% 75 - 90
Korean GHS Classification Not classified

Zinc Molybdenum Oxide

CAS Number 22914-58-5
 61583-60-6
Weight-% 10 - 25
Korean GHS Classification Acute Tox. 4, H332
 STOT RE 2, H373
 Aquatic Acute 1, H400
 Aquatic Chronic 2, H411

Crystalline Silica, quartz (impurity)

CAS Number 14808-60-7
Weight-% <0.1
Korean GHS Classification Carcinogenicity category 1A
 Category 2

Other domestic and foreign regulations**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)(ISHL)	KE-32773	Y	Y	Y	Y	A
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	245-322-4	01-212080 0481-68-000	N	Y	Y	(1)-781 (ENCS)(ISHL)	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

Section 16: OTHER INFORMATION**A. Source of Information****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)
TSCA (Toxic Substances Control Act)
GHS (Globally Harmonized System)

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**C. Number of revisions and Date 1.6.1
of most recent revision****D. Other****Prepared by**

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