



## Kemgard® 911C

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® 911C

**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  
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**E-mail** hubermaterials@huber.com

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### 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 Statements**

May cause damage to organs through prolonged or repeated exposure  
Harmful to aquatic life with long lasting effects

## Precautionary statement

**Prevention**

Do not breathe dust  
Avoid release to the environment  
Do not handle until all safety precautions have been read and understood  
Employ good industrial hygiene practice  
Wear protective gloves/protective clothing/eye protection/face protection

**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 (CO<sub>2</sub>).
- 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/m <sup>3</sup> 2 mg/m <sup>3</sup>
ACGIH	TWA: 2 mg/m <sup>3</sup> (respirable dust)
OSHA	TWA: 20 mppcf

#### Zinc Molybdenum Oxide

Korea	TWA: 8-hour 0.5 mg/m <sup>3</sup>
Korea	STEL: Not established
ACGIH	TWA: 10 mg/m <sup>3</sup> dust 0.5 mg/m <sup>3</sup> Respirable fraction
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)

Korea	TWA: 0.05 mg/m <sup>3</sup> respirable fraction
ACGIH	TWA: 0.025 mg/m <sup>3</sup> respirable fraction
OSHA	TWA: 0.05 mg/m <sup>3</sup> OSHA Action level: 0.025 mg/m <sup>3</sup>

### 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** If contact is likely, safety glasses with side shields are recommended.
- **Hand protection** For prolonged or repeated skin contact use suitable protective gloves.
- **Body protection** 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

clothing and protective equipment to remove contaminants.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid Powder
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH:</b>	6.5
<b>Melting Point / Melting Range</b>	No information available
<b>Initial boiling point</b>	No information available
<b>Freezing Point</b>	No information available
<b>Boiling 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>	No data available
<b>Lower flammability limit:</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor 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>	No data 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

### 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 - 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)

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

**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)

**B. Issue Date**

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**C. Number of revisions and Date of most recent revision** 1.5.2**D. Other****Prepared by**Huber Engineered Materials Global Regulatory Affairs  
(Email – HEM.FRAREgulatory@huber.com)

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