



Safety Data Sheet

FIRE RETARDANT ADDITIVES

Kemgard® 1100

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) No. 2015/830

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: Kemgard® 1100

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)	Weight-%
Talc	14807-96-6	238-877-9	Exempt	Not classified	75 - 90
Molybdenum zinc oxide	22914-58-5	245-322-4	01-2120800481-68-0000	H410 - Very toxic to aquatic life with long lasting effects <25% Not classified	10 - 25
Crystalline Silica, quartz (impurity)	14808-60-7	238-878-4	Exempt	Carcinogenicity category 1A Specific target organ toxicity (STOT) - repeated exposure, category 2 : Respiratory system	<0.1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company: J.M. Huber Corporation
3100 Cumberland Boulevard, Suite 600
Atlanta, GA 30339 USA
Tel: +1 678 247-7300

Internet www.hubermaterials.com

E-mail hubermaterials@huber.com

1.4. Emergency telephone number CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

Poison control center phone number National Anti-Poison Center UK: +44 844 892 0111 (National Poisons Information Service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

(CLP) Regulation (EC 1272/2008) Not classified

Hazards identification

Physical Hazard	Not classified
Health Hazards	Not classified
Environmental Hazard	Not classified

2.2. Label elements

Symbols/Pictograms	None
Signal Word	None
Hazard Statements	None

Precautionary Statements

Prevention	Employ good industrial hygiene practice Wash hands thoroughly after handling
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
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).

2.3. Other hazards No information available.

SECTION 3: Composition/information on ingredients

Chemical Name	CAS Number	EC No	REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%
Talc	14807-96-6	238-877-9	Exempt	Not classified	--	75 - 90
Molybdenum zinc oxide	22914-58-5	245-322-4	01-2120800481-68-0000	H410 - Very toxic to aquatic life with long lasting effects <25% Not classified	--	10 - 25
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(impurity)				Specific target organ toxicity (STOT) - repeated exposure, category 2 : Respiratory system		
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Additional information

Exempt or - : this substance or its uses are exempted from REACH registration or no REACH registration obligation as annual tonnage <1tpa. TSCA A: Component is listed on Inventory as Active

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice

When in doubt or if symptoms are observed, get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Eye Contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact

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.

Ingestion

Rinse mouth thoroughly with water.

Aspiration hazard

Not an expected route of exposure.

Notes to Physician

Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire. Water spray (fog). Dry chemical. Foam. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media

Do not use water jetstream.

5.2. Special hazards arising from the substance or mixture

Heating can release hazardous gases.

5.3. Advice for firefighters**Special protective equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

Fire-fighting measures

Water mist may be used to cool closed containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Ensure adequate ventilation. Use personal protection recommended in Section 8. Keep unauthorized personnel away.

For non-emergency personnel Keep unauthorized personnel away.

For emergency responders Keep unauthorized personnel away. Use personal protection recommended in Section 8.

6.2. Environmental precautions Avoid runoff to waterways and sewers.

6.3. 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

6.4. Reference to other sections Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid exposure - obtain special instructions before use
Do not handle until all safety precautions have been read and understood.
Minimize dust generation and accumulation
Ensure adequate ventilation
Handle in accordance with good industrial hygiene and safety practice
Use personal protective equipment as required

7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed and dry
Store away from incompatible materials

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Occupational exposure limits

Talc

ACGIH	TWA: 2 mg/m ³ (respirable dust)
OSHA	TWA: 20 mppcf
Austria	MAK: 2 mg/m ³ (respirable fraction)
Belgium	TWA: 2 mg/m ³
Bulgaria	TWA: 1 fibers/cm ³ (respirable fraction)
	6 mg/m ³ (inhalable fraction)
	3 mg/m ³ (respirable fraction)
Croatia	MAC: 1 mg/m ³
Cyprus	TWA: 706 particle/m ³
Czech Republic	TWA: 10 mg/m ³ (respirable dust)
	10 mg/m ³ (total dust)
Greece	TWA: 2 mg/m ³ (respirable); 10 mg/m ³ (inhalable)
Hungary	TWA: 2 mg/m ³ (respirable)
Ireland	TWA: 10 mg/m ³ (total inhalable dust)
	0,8 mg/m ³ (respirable dust)
Italy	TWA: 2 mg/m ³ (respirable fraction)
Italy	TWA: 2 mg/m ³ (respirable fraction)
Lithuania	TWA: 2 mg/m ³ (inhalable fraction)
	1 mg/m ³ (respirable fraction)
Netherlands	TWA: 0,25 mg/m ³ (respirable dust)
Norway	TLV: 6 mg/m ³ (total dust)
	2 mg/m ³ (respirable dust)
Poland	TWA: 4 mg/m ³ (total dust)
	1 mg/m ³ (respirable dust)
Portugal	TWA: 2 mg/m ³ (respirable fraction)
Slovakia	TWA: 2 mg/m ³ (respirable fraction)
	10 mg/m ³ (total)
Slovenia	TWA: 2 mg/m ³ (respirable fraction)
Spain	TWA: 2 mg/m ³ (respirable fraction)
Sweden	TWA: 2 mg/m ³ (total dust)
	1 mg/m ³ (respirable dust)
Switzerland	TWA: 2 mg/m ³ (respirable dust)
United Kingdom	TWA: 1 mg/m ³ (respirable dust)

Molybdenum zinc oxide

ACGIH	TWA: 10 mg/m ³ dust
	0.5 mg/m ³ Respirable fraction
OSHA	TWA: 5 mg/m ³ (respirable); 10 mg/m ³ (dust)
	PEL: 5 mg/m ³ (respirable)
NIOSH	8-hr TWA: 10 mg/m ³
Bulgaria	TWA: 10 mg/m ³
Czech Republic	Ceiling: 25mg/m ³
	TWA: 5 mg/m ³
Estonia	TWA: 5 mg/m ³ (respirable dust)
	10 mg/m ³ (total dust)
Estonia	STEL: 0.5 mg/m ³
Finland	TWA: 0,5 mg/m ³
France	VLE: 10 mg/m ³
	VME: 5 mg/m ³
Germany	DFG MAK: TWA: 2 mg/m ³ (inhalable fraction)
	0,1 mg/m ³ (respirable fraction)
Poland	STEL: 10 mg/m ³
	TWA: 4 mg/m ³
Poland	STEL 10 mg/m ³
Slovakia	TWA 2 mg/m ³ Inhalable fraction
	0,1 mg/m ³ Respirable fraction

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<p>Slovenia Spain</p> <p>Crystalline Silica, quartz (impurity)</p> <p>ACGIH OSHA</p> <p>NIOSH</p> <p>Austria Belgium Bulgaria Croatia Czech Republic Denmark</p> <p>Estonia Finland France Hungary Iceland</p> <p>Ireland Italy Italy Lithuania Netherlands Norway</p> <p>Poland</p> <p>Portugal Slovakia Slovenia Spain Sweden Switzerland United Kingdom</p>	<p>TWA: 5 mg/m³ (inhalable fraction) STEL 10 mg/m³ Respirable fraction</p> <p>TWA: 0.025 mg/m³ respirable fraction TWA: 0.05 mg/m³ OSHA Action level: 0.025 mg/m³ 0.05 mg/m³ TWA (respirable dust) MAK: 0,15 mg/m³ (respirable dust) TWA: 0,1 mg/m³ (respirable dust) TWA: 0,07 mg/m³ (respirable fraction) MAC: 0,1 mg/m³ TWA: 0,1 mg/m³ (respirable dust) TLV 0,3 mg/m³ (total) 0,1 mg/m³ (respirable) TWA: 0,1 mg/m³ (respirable dust) TWA: 0,05 mg/m³ (respirable) VME: 0,1 mg/m³ (restrictive limit, alveolar fraction) TWA: 0,15 mg/m³ (respirable) TWA: 0,3 mg/m³ (total dust) 0,1 mg/m³ (respirable dust) TWA: 0,1 mg/m³ (respirable dust) TWA: 0,025 mg/m³ (respirable fraction) TWA: 0,025 mg/m³ (respirable fraction) TWA: 0,1 mg/m³ (respirable fraction) TWA: 0,075 mg/m³ (respirable dust) TLV: 0,3 mg/m³ (total dust) 0,1 mg/m³ (respirable dust) TWA: 2 mg/m³ (total dust) 0,3 mg/m³ (respirable dust) TWA: 0,025 mg/m³ (respirable fraction) TWA: 0,1 mg/m³ (respirable fraction) TWA: 0,15 mg/m³ (respirable fraction) VLA-ED TWA: 0,1 mg/m³ (respirable fraction) TWA: 0,1 mg/m³ (respirable dust) TWA: 1, 15 mg/m³ (respirable dust) TWA: 0,1 mg/m³ (respirable)</p>
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Recommended monitoring procedures Refer also to national guidance documents for information on currently recommended monitoring procedures

Biological Limit Values: None

Derived No Effect Level (DNEL) No data available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure 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

Personal protective equipment

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Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear suitable protective clothing.
Hand protection	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	None known.
Hygiene Measures	Follow general hygiene considerations recognized as common good workplace practices
Environmental Exposure Controls	Dispose of in accordance with local regulations

SECTION 9: Physical and chemical properties

9.1. 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
Boiling Point	No information available
Freezing 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 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.
Molecular Weight	Not available
Molecular Weight	Not available
Specific Gravity	2.8 (H ₂ O = 1)
VOC Content (%)	0%

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	None under normal processing
10.4. Conditions to avoid	Incompatible materials Dust formation
10.5. Incompatible materials	Strong oxidizing agents Strong acids
10.6. Hazardous decomposition products	None known

SECTION 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	Do not breathe dust Inhalation of dust in high concentration may cause irritation of respiratory system
Skin	Contact with dust can cause mechanical irritation or drying of the skin
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

Talc

NTP (National Toxicology Program) male rat-some evidence; female rat-clear evidence; male mice-no evidence; female mice-no evidence

Molybdenum zinc oxide

Oral LD50 >10000 mg/kg Rat

Crystalline Silica, quartz (impurity)

LD50s and LC50s 500 mg/kg Oral LD50 Rat

Oral LD50 500 mg/kg Rat Mouse

ACGIH

Group 2A - Probably Carcinogenic to Humans

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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	Respiratory system. Eyes. Skin.
Specific target organ toxicity - Single exposure	No data available.
Specific target organ toxicity - Repeated exposure	No data available.

SECTION 12: Ecological information

12.1. Ecotoxicity

Talc

WGK Classification (AwSV) 1315 WGK: nwg

Crystalline Silica, quartz (impurity)

WGK Classification (AwSV) 849 WGK: nwg

12.2. Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential No information available.

Partition coefficient No data available

Bioconcentration factor (BCF) No data available.

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects No information available

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	Number		registrati on number	(AICS)	(DSL)	(IECSC)		(KECL)		Zealand	s (PICCS)		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
Molybdenum zinc oxide	22914-58-5	245-322-4	01-212080 0481-68-0 000	Y: CAS 61583-60- 6 (generics)	Y: DSL-2291 4-58-5 NDSL: 61583-60- 6	Y	(1)-781 (ENCS)(IS HL)	KE-11910 KE-25463	-	-	Y: 61583-60- 6	Y	A
Crystalline Silica, quartz (impurity)	14808-60-7	238-878-4	Exempt	Y	Y	Y	(1)-548(E NCS)(ISH L)	KE-29983	Y	Y	Y	Y	A

Legend X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

Germany

Talc

WGK Classification (AwSV) 1315 WGK: nwg

Crystalline Silica, quartz (impurity)

WGK Classification (AwSV) 849 WGK: nwg

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information

Reason for Revision This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & COMMISSION REGULATION (EU) No. 2015/830

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Prepared by Huber Engineered Materials Global Regulatory Affairs
 email: regulatory.affairs@huber.com.

(CLP) Regulation (EC 1272/2008) Not classified

Labeling

Symbols/Pictograms None

Signal Word None

Hazard Statements None

Training Advice Do not handle until all safety precautions have been read and understood.

Abbreviations and acronyms International Agency for Research on Cancer (IARC)
 International Air Transport Association (IATA)
 International Maritime Dangerous Goods (IMDG)
 International Uniform Chemical Information Database (IUCLID)

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Workplace Hazardous Materials Information System (WHMIS) status and classification
EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification
DOT (Department of Transportation)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
TWA - Time-Weighted Average
The Classification, Labeling and Packaging of Substances and Mixtures (CLP) 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)
Reportable Quantity (RQ) (RQ/% in mixture)
STEL - Short Term Exposure Limit
TLV® - Threshold Limit Value
Derived No Effect Level (DNEL)
SVHC: Substances of Very High Concern for Authorization:
Land transport (ADR/RID)
Biochemical oxygen demand (BOD)
Chemical oxygen demand (COD)
ICAO (air)
(IMDG) International Maritime Dangerous Goods
Positive Pressure Self-Contained Breathing Apparatus (SCBA)
Predicted No Effect Concentration (PNEC)
Globally Harmonized System (GHS)

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