



Safety Data Sheet

FIRE RETARDANT ADDITIVES

Kemgard® 1100

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03
Canadian Workplace Hazardous Material Information System (WHMIS) 2015
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015
Globally Harmonized System (GHS)

Issue Date: 25/Sep/2020
Print Date: 25/Sep/2020

Revision Number: 1.5
Page 1 of 11

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

1.1. Product identifier

Product Name: Kemgard® 1100

Pure substance/mixture Mixture

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Physical Hazards Not classified

Health Hazards Not classified

Environmental Hazard Not classified

2.2. Label elements

HUBER

Safety Data Sheet

Kemgard® 1100

Issue Date: 25/Sep/2020
Print Date: 25/Sep/2020

Revision Number: 1.5
Page 2 of 11

Symbols/Pictograms None

Signal Word None

Hazard Statements None

Precautionary Statements

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

Response IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
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
If swallowed, rinse mouth with water (only if the person is conscious)
Drink plenty of 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).

Hazards not otherwise classified (HNOC) None known.

SECTION 3: Composition/information on ingredients

Pure substance/mixture Mixture

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	REACH registration number	OSHA Regulatory Status	WHMIS	Weight-%
Talc	14807-96-6	A	Y	Y	Exempt		--	75 - 90
Molybdenum zinc oxide	22914-58-5	A	Y: DSL-22914-58-5 NDSL: 61583-60-6	-	01-212080048 1-68-0000	Not regulated	--	10 - 25
Crystalline Silica, quartz (impurity)	14808-60-7	A	Y	Y	Exempt	Carcinogenicity category 1A Specific target organ toxicity (STOT) - repeated exposure, category 2	H350; H372	<0.1

Legend

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice

Do not handle until all safety precautions have been read and understood. Employ good industrial hygiene practice. Wear suitable protective clothing, gloves and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if symptoms are observed, get medical advice.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin Contact

Wash with plenty of soap and water.

Ingestion

Rinse mouth thoroughly with water.

Inhalation

Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Aspiration hazard

Not an expected route of exposure.

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

Treatment should be symptomatic and supportive. 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**

Water spray (fog). Foam. Dry chemical. 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. No special fire protection measures are necessary. Standard procedure for chemical fires.

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

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

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

Issue Date: 25/Sep/2020
 Print Date: 25/Sep/2020

Revision Number: 1.5
 Page 5 of 11

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. Do not breathe dust. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact. Handle in accordance with good industrial hygiene and safety practice.

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

Occupational exposure limits

Talc

OSHA	TWA: 20 mppcf
ACGIH	TWA: 2 mg/m ³ (respirable dust)

Molybdenum zinc oxide

OSHA	TWA: 5 mg/m ³ (respirable); 10 mg/m ³ (dust)
	PEL: 5 mg/m ³ (respirable)
ACGIH	TWA: 10 mg/m ³ dust
	0.5 mg/m ³ Respirable fraction
NIOSH	8-hr TWA: 10 mg/m ³
Canada	TWA: 8-Hour: 0.5 mg/m ³
Mexico	TWA/OEL (VLE-PPT): 0.5 mg/m ³

Crystalline Silica, quartz (impurity)

OSHA	TWA: 0.05 mg/m ³
	OSHA Action level: 0.025 mg/m ³
ACGIH	TWA: 0.025 mg/m ³ respirable fraction
NIOSH	0.05 mg/m ³ TWA (respirable dust)
Canada	0.025 mg/m ³ TWA (respirable particulate)
Canada - BC TWA	0.025 mg/m ³ TWA (respirable fraction)
Canada - Manitoba - OEL - TWA	0.025 mg/m ³ TWA (respirable fraction)
Canada - Newfoundland & Labrador - OEL - TWA	0.025 mg/m ³ TWA (respirable fraction)
Canada - Nova Scotia - OEL - TWA	0.025 mg/m ³ TWA (respirable fraction)
Canada - Prince Edward Island - OEL - TWA	0.025 mg/m ³ TWA (respirable fraction)
Mexico	0.1 mg/m ³ TWA (respirable fraction)

Biological Limit Values: No information available

Derived No Effect Level (DNEL) No data available

Predicted No Effect Concentration (PNEC) No information available

Issue Date: 25/Sep/2020
 Print Date: 25/Sep/2020

Revision Number: 1.5
 Page 6 of 11

8.2. Exposure controls

Engineering Measures

Provide a good standard of controlled ventilation (5 to 10 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

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

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

None known. Wear suitable protective clothing.

Hygiene Measures

Follow general hygiene considerations recognized as common good workplace practices. The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc.

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

Issue Date: 25/Sep/2020
Print Date: 25/Sep/2020

Revision Number: 1.5
Page 7 of 11

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

Issue Date: 25/Sep/2020
 Print Date: 25/Sep/2020

Revision Number: 1.5
 Page 8 of 11

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
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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Waste codes	Waste codes should be assigned by the user based on the application for which the product was used

Talc

WGK Classification (AwSV) 1315 WGK: nwg

Crystalline Silica, quartz (impurity)

WGK Classification (AwSV) 849 WGK: nwg

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

SECTION 15: Regulatory information

HUBER

Safety Data Sheet

Kemgard® 1100

Issue Date: 25/Sep/2020
Print Date: 25/Sep/2020

Revision Number: 1.5
Page 10 of 11

Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	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
Molybdenum zinc oxide	22914-58-5	245-322-4	01-212080 0481-68-000	Y: CAS 61583-60-6 (generics)	Y: DSL-2291 4-58-5 NDSL: 61583-60-6	Y	(1)-781 (ENCS)(ISHL)	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(ENCS)(ISHL)	KE-29983	Y	Y	Y	Y	A

Legend

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

US Federal Regulations

EPA

Molybdenum zinc oxide

CERCLA Listed
SARA 304 Listed
SARA 313 Listed

U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Talc	14807-96-6	Y-Carcinogen	Y-Carcinogen	Y-Cancer	Y-1773-Carcinogen	Y
Molybdenum zinc oxide	22914-58-5	N	Y	Y	Y	Y
Crystalline Silica, quartz (impurity)	14808-60-7	Y	Y	Y	sn 1660	Y

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product can expose you to crystalline silica, which is known to the State of California to cause cancer.

CANADA

WHMIS:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

Crystalline Silica, quartz (impurity)

H350; H372

SECTION 16: Other information

Prepared by

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Safety Data Sheet

Kemgard® 1100

Issue Date: 25/Sep/2020
Print Date: 25/Sep/2020

Revision Number: 1.5
Page 11 of 11

Issue Date: 25/Sep/2020
Print Date: 25/Sep/2020

Revision Number: 1.5

Reason for Version OSHA (Occupational Safety and Health Administration of the US Department of Labor).

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)
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
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)
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