



Safety Data Sheet

FIRE RETARDANT ADDITIVES

Malaysia CLASS Regulation, 2013
Globally Harmonized System (GHS)

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

Revision Number: 1.5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name: Kemgard® 1100

Pure substance/mixture Mixture

Talc

CAS Number 14807-96-6

Weight-% 75 - 90

Molybdenum zinc oxide

CAS Number 22914-58-5

Weight-% 10 - 25

Crystalline Silica, quartz (impurity)

CAS Number 14808-60-7

Weight-% <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

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification This product is not classified as hazardous according to the UN GHS guideline and labeling is not required

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Hazards identification

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

2.2. Label elements

Symbols/Pictograms	None
Signal Word	None

Precautionary Statements

Prevention	Employ good industrial hygiene practice Do not breathe dust
Response	IF ON SKIN: Wash with plenty of soap and water IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Mixture

Chemical Name	CAS Number	TSCA: United States	REACH registration number	Weight-%
Talc	14807-96-6	A	Exempt	75 - 90
Molybdenum zinc oxide	22914-58-5	A	01-2120800481-68-0000	10 - 25
Crystalline Silica, quartz (impurity)	14808-60-7	A	Exempt	<0.1

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

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.

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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.
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.
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.

5. FIRE-FIGHTING 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.

6. ACCIDENTAL RELEASE MEASURES

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- 6.1. Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid dust formation. 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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Talc

ACGIH TWA: 2 mg/m³ (respirable dust)
OSHA TWA: 20 mppcf

Molybdenum zinc oxide

NIOSH 8-hr TWA: 10 mg/m³
ACGIH TWA: 10 mg/m³ dust
 0.5 mg/m³ Respirable fraction
OSHA TWA: 5 mg/m³ (respirable); 10 mg/m³ (dust)
 PEL: 5 mg/m³ (respirable)

Crystalline Silica, quartz (impurity)

NIOSH 0.05 mg/m³ TWA (respirable dust)
ACGIH TWA: 0.025 mg/m³ respirable fraction
OSHA TWA: 0.05 mg/m³
 OSHA Action level: 0.025 mg/m³

Biological Limit Values: None

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Recommended monitoring procedures Refer also to national guidance documents for information on currently recommended monitoring procedures

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

Eye/Face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Wear suitable protective clothing.

Hand Protection Wear suitable gloves.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

Thermal hazards Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

Environmental Exposure Controls Dispose of in accordance with local regulations.

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
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:	
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

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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 (H2O = 1)
VOC Content (%)	0%

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

11. TOXICOLOGICAL INFORMATION

General Information	Users are advised to consider national Occupational Exposure Limits or other equivalent values.
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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

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Molybdenum zinc oxide

Oral LD50 >10000 mg/kg Rat

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 Respiratory system. Eyes. Skin.

Specific target organ toxicity - Single exposure No data available.

Specific target organ toxicity - Repeated exposure No data available.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

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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.

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12.6. Other adverse effects No information available

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

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

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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Global Inventories

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	01-212080048 1-68-0000	Y: CAS 61583-60-6 (generics)	Y: DSL-229 14-58-5 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

16. OTHER INFORMATION

Prepared by

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GHS Classification

This product is not classified as hazardous according to the UN GHS guideline and labeling is not required

Physical Hazard

Not classified

Health Hazards

Not classified

Environmental Hazard

Not classified

Labeling

Symbols/Pictograms

None

Signal Word

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)
 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)

HUBER

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Kemgard® 1100

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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