Safety Data Sheet

Kemgard® 1100

Prepared in accordance with GB/T 16483-2008, GB/T 24774-2009, GB 13690 – 2009, GB/T 17519–2013
GHS (Globally Harmonized System)

Section 1: PRODUCT AND COMPANY IDENTIFICATION

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

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known

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Registration Number No information available

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Physical Hazard Not classified

Health Hazard
Acute toxicity - Inhalation Category 5
Specific target organ toxicity (STOT) - repeated exposure, category 2

Environmental Hazard	Chronic Aquatic Toxicity, Category 3 Acute Aquatic Toxicity Category 2

Label Elements

Symbols/Pictograms

Signal Word	Warning
Hazard Statement	May be harmful if inhaled May cause damage to organs through prolonged or repeated exposure Toxic to aquatic life Harmful to aquatic life with long lasting effects

Precautionary Statements

Prevention	Observe good industrial hygiene practices. Avoid breathing dust. Use mechanical ventilation (dilution and local exhaust) to control exposure Avoid release to the environment
Response	Get medical help if you feel unwell 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 IF INHALED: Get medical help.
Spills and Leaks	Collect spillage
Storage	Store in a dry place Store away from incompatible materials.
Disposal	Dispose in accordance with local, state and national 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	China (IECSC)	China classification	TSCA: United States	EU REACH registration number	Weight-%
Talc	14807-96-6	Y	Not classified	A	Exempt	75 - 90
Zinc Molybdenum Oxide	22914-58-5 61583-60-6	Y	Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	A	01-2120800481-68-0000	10 - 25
Crystalline Silica, quartz (impurity)	14808-60-7	Y	Carcinogenicity category 1A Respiratory system	A	Exempt	<0.1

Section 4: FIRST AID MEASURES

General Advice In case of doubt or when symptoms persist, seek medical attention.

Eye Contact Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.

Skin Contact IF ON SKIN: 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

Notes to Physician Treat symptomatically

Personal Protective Equipment For First Aid Responders Wear suitable protective clothing
IF exposed or concerned: Get medical advice/attention

Expected acute symptoms and delayed symptoms None known

Section 5: FIRE FIGHTING MEASURES

Flammable Properties None known

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Do not use water jetstream

Specific Hazards Arising from the Chemical	Heating can release hazardous gases
Unusual fire & explosion hazards:	None
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus and protective suit

Section 6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Avoid dust formation. Avoid inhalation of dust. Refer to Section 8 for personal protective equipment.
Environmental Precautions	Prevent from entering into soil, ditches, sewers and waterways.
Methods for cleaning up	Sweep or vacuum spilled material Dispose of according to local and regional authority requirements
Other Information:	None known

Section 7: HANDLING AND STORAGE

Handling	In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation. Handle in accordance with good industrial hygiene and safety practice.
Storage	Keep container tightly closed in a dry and well-ventilated place

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits Provide adequate ventilation as well as local exhaustion at critical locations

Talc	
China	TWA: 3 mg/m³ (total dust) 1 mg/m³ (respirable dust)
ACGIH	TWA: 2 mg/m³ (respirable dust)
OSHA	TWA: 20 mppcf
Zinc Molybdenum Oxide	
China	TWA: 8-hour: 4 mg/m³
China	STEL: Not established
ACGIH	TWA: 10 mg/m³ dust 0.5 mg/m³ Respirable fraction
NIOSH	8-hr TWA: 10 mg/m³
OSHA	TWA: 5 mg/m³ (respirable); 10 mg/m³ (dust) PEL: 5 mg/m³ (respirable)
Crystalline Silica, quartz (impurity)	
China	TWA: 0.5 mg/m³ (total dust) 0.2 mg/m³ (respirable dust)
ACGIH	TWA: 0.025 mg/m³ respirable fraction
NIOSH	0.05 mg/m³ TWA (respirable dust)

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

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	Protective gloves
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice Wash hands and face before breaks and immediately after handling the product.
Environmental Exposure Controls	Dispose of in accordance with local regulations

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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/cm³
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 (H2O = 1)
VOC Content (%)	0%

Section 10: STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to avoid:	Incompatible materials Dust formation
Incompatible materials	Strong oxidizing agents Strong acids
Hazardous decomposition products	None known
Hazardous Reactions	None under normal processing
Hazardous polymerization:	Hazardous polymerization does not occur

Section 11: TOXICOLOGICAL INFORMATION

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

Product Information

Information on Likely Routes of Exposure

Eyes	Dust contact with the eyes can lead to mechanical irritation
Skin	Prolonged or repeated contact may dry skin and cause irritation
Inhalation	Avoid inhalation of the product
Ingestion	Ingestion is not a likely route of exposure
Aspiration hazard	Not an expected route of exposure.

11.1. Information on toxicological effects

Zinc Molybdenum Oxide

Oral LD50	>10000 mg/kg Rat
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)

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	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

Ecotoxicity	Harmful to aquatic life with long lasting effects. Avoid release to the environment.
Persistence/Degradability:	Not readily biodegradable.
Bioaccumulative Potential	No information available.
Partition coefficient	No data available
Bioconcentration factor (BCF)	No data available.
Mobility in soil	No information available.
Results of PBT and vPvB assessment	This substance does not meet the criteria for classification as PBT or vPvB.
Other Adverse Effects	No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products Dispose of in accordance with local regulations

Contaminated Packaging: Dispose of contents/container to an approved waste disposal plant

Section 14: TRANSPORT INFORMATION

Mode of Transportation (Road, Water, Air, Rail)

DOT Not regulated
IATA Not regulated
IMDG/IMO Not regulated

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

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

Global Inventories

Chemical Name	CAS Number	EC No	EU REACH registration number	Australia (AIIC)	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-	245-322-4	01-2120800481-68-0000	N	Y	Y	(1)-781 (ENCS)(ISHL)	KE-11910	N	N	N	Y	A

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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

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Reason for Revision
GB/T 16483-2008
GB/T 24774-2009
GB 13690 – 2009
GB/T 17519–2013

GHS Classification

Physical Hazard
Not classified

Health Hazard
Acute toxicity - Inhalation Category 5
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Environmental Hazard
Chronic Aquatic Toxicity, Category 3
Acute Aquatic Toxicity Category 2

Label Elements

Symbols/Pictograms

Signal Word
Warning

Hazard Statement
May be harmful if inhaled
May cause damage to organs through prolonged or repeated exposure
Toxic to aquatic life
Harmful to aquatic life with long lasting effects

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)
SCBA (Self-Contained Breathing Apparatus) Positive Pressure
GHS (Globally Harmonized System)
ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID (Agreement Concerning the International Carriage of Dangerous Goods by Rail)
SARA (Superfund Amendments and Reauthorization Act of 1986)
TSCA (Toxic Substances Control Act)

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