



Kemgard® 1100

GHS (Globally Harmonized System)

Measures on the Management of Toxic Chemical Substances Labelling and Safety Data Sheets. December 11, 2014.

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.6.1

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Section 1: Identification: Product identifier and chemical identity

1.1. Product identifier

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

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.huberadvancedmaterials.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

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Pure substance/mixture

Mixture

GHS Classification

Considered a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Hazards identification**Physical Hazard**

Not classified

Health Hazards

Specific target organ toxicity (STOT) - repeated exposure, category 2

Environmental Hazard

Chronic Aquatic Toxicity Category 3

2.2. Label elements**Symbols/Pictograms****Signal Word**

Warning

Hazard StatementsMay cause damage to organs through prolonged or repeated exposure
Harmful to aquatic life with long lasting effects**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
Avoid release to the environment**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).

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

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3.2. Mixture

Mixture

| Chemical Name | CAS Number | Taiwan | Taiwan - GHS | EU REACH registration number | Weight-% |
|--|--------------------------|--------|--|------------------------------|----------|
| Talc | 14807-96-6 | Y | Not classified | Exempt | 75 - 90 |
| Zinc Molybdenum Oxide | 22914-58-5 61583-60-6 | Y | STOT RE Cat. 2; (H373).Aquatic Acute Category 1;H400. Aquatic Chronic Cat.2; H411. | 01-2120800481-68-00 00 | 10 - 25 |
| Crystalline Silica, quartz (impurity) | 14808-60-7 | Y | Carcinogenicity category 1A | Exempt | <0.1 |

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

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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

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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

Engineering Controls:

Exposure Limit Values

Talc

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

Zinc Molybdenum Oxide

Taiwan OEL: 5 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)

ACGIH TWA: 0.025 mg/m³ respirable fraction
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 Protection Avoid contact with eyes Wear safety glasses with side shields (or goggles)

Skin and Body Protection Use suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure.

Hand Protection Wear protective gloves.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental Exposure

This product does not present any particular risk for the environment.
Check the appropriate national and local regulations. Prevent entry into sewers and waterways.

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 |
| Melting point / Freezing point | Not applicable |
| 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 | Not applicable |
| Vapor Density | No data available |
| 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. |
| Kinematic viscosity | Not applicable |
| Oxidizing Properties | Not applicable |
| Particle Size | No information available |
| Molecular Weight | Not available |
| Molecular Weight | Not available |
| Specific Gravity | 2.8 (H ₂ O = 1) |
| VOC Content (%) | 0% |

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Not applicable

9.2.2. Other safety characteristics

Not applicable

SECTION 10: Stability and reactivity

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| | |
|---|---|
| 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.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Talc

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

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)

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 Skin. Eyes. Respiratory system.

Specific target organ toxicity - No data available.

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Single exposure

Specific target organ toxicity - Repeated exposure May cause damage to organs through prolonged or repeated exposure if inhaled. Kidney.

Information on Likely Routes of Exposure

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

11.2. Information on other hazards

- 11.2.1. Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors
- 11.2.2. Other information** Not applicable

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects Avoid release to the environment

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. Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors

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)

| | |
|--------------------|---------------|
| TDG -Canada | Not regulated |
| DOT | Not regulated |
| IATA | Not regulated |
| IMDG/IMO | Not regulated |
| ICAO | Not regulated |

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. Maritime transport in bulk according to IMO instruments

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Not applicable

SECTION 15: Regulatory information

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 0481-68-0 000 | 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(E NCS)(ISHL) | KE-29983 | Y | Y | Y | Y | A |

SECTION 16: Other information

Prepared by

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GHS Classification

Considered a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Symbols/Pictograms



Signal Word

Warning

Hazard Statements

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

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Hazards identification

Physical Hazard

Not classified

Health Hazards

Specific target organ toxicity (STOT) - repeated exposure, category 2

Environmental Hazard

Chronic Aquatic Toxicity Category 3

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
 GHS (Globally Harmonized System)
 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