



Kemgard® 631

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

Issue Date 01/Jan/2024
Print Date 13/Dec/2023

Revision Number 1.2.1
Page 1 of 9

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Kemgard® 631

Pure substance/mixture Mixture

Aluminum/Zinc Mixture

CAS Number Proprietary

Weight-% 100

Recommended Use Flame retardant Smoke suppressant

Uses advised against None known

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Section 2: HAZARDS IDENTIFICATION

GHS Classification Not classified

Physical Hazard Not classified

Health Hazard Not classified

Environmental Hazard Not classified

Label Elements

Symbols/Pictograms None

Signal Word None

Precautionary Statements

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

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024
Print Date 13/Dec/2023

Revision Number 1.2.1
Page 2 of 9

Employ good industrial hygiene practice
Do not breathe dust.
Wear protective gloves/protective clothing/eye protection/face protection.

| | |
|-------------------------|---|
| 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 |
| Spills and Leaks | Collect spillage |
| Storage | Store away from incompatible materials. Store in a dry place |
| Disposal | Dispose in accordance with local, state and national regulations |
| 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 |

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-% |
|-----------------------|-------------|---------------|----------------------|---------------------|--|----------|
| Aluminum/Zinc Mixture | Proprietary | Y | Not classified | A | Contact JM Huber for REACH Regulatory Status | 100 |

Additional Information: TSCA -- A: Component is listed on Inventory as Active

Section 4: 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 | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Remove contact lenses, if present and easy to do. Continue rinsing |

Safety Data Sheet

Kemgard® 631**Issue Date** 01/Jan/2024**Print Date** 13/Dec/2023**Revision Number** 1.2.1**Page 3 of 9**

| | |
|---|---|
| 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 | If swallowed, rinse mouth with water (only if the person is conscious) |
| 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 | Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin |

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: | None known |
| Specific Hazards Arising from the Chemical | None known |
| 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 |
|-----------------|--|

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 4 of 9

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

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 |
| Flash Point | Not determined. |
| Evaporation Rate | Not applicable |
| Flammability (solid, gas) | Not applicable |
| Upper flammability limit: | |
| Lower flammability limit: | |
| Relative Density | No data available |
| Water Solubility | Soluble |
| Solubility in other solvents | No data available |

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 5 of 9

| | |
|---------------------------|-------------------|
| Partition coefficient | No data available |
| Autoignition Temperature | No data available |
| Decomposition Temperature | No data available |

Section 10: STABILITY AND REACTIVITY

| | |
|----------------------------------|---------------------------------------|
| Stability | Stable under normal conditions |
| Conditions to avoid: | Dust formation Incompatible materials |
| Incompatible materials | None known |
| Hazardous decomposition products | None under normal processing |
| Hazardous Reactions | None under normal processing |
| Hazardous polymerization: | None under normal processing |

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

| | |
|------------------|---|
| Acute Toxicity | Based on available data, the classification criteria are not met |
| Chronic Toxicity | Based on available data, the classification criteria are not met. |

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 6 of 9

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|---|---|
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met |
| Skin Sensitization | Based on available data, the classification criteria are not met |
| Mutagenicity | Based on available data, the classification criteria are not met. |
| Reproductive Toxicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - Single exposure | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - Repeated exposure | Based on available data, the classification criteria are not met. |

Section 12: ECOLOGICAL INFORMATION

| | |
|---|--|
| Ecotoxicity | Not considered to be harmful to aquatic life. Avoid release to the environment. |
| Persistence/Degradability: | The methods for determining biodegradability are not applicable to inorganic substances. |
| Bioaccumulative Potential | Not likely to bioaccumulate. |
| Partition coefficient | No data available |
| Bioconcentration factor (BCF) | No data available. |
| Mobility in soil | No data available. |
| Results of PBT and vPvB assessment | This substance does not meet the criteria for classification as PBT or vPvB. |
| Other Adverse Effects | None known |

Section 13: DISPOSAL CONSIDERATIONS

| | |
|--|---|
| Waste from Residues/Unused Products | Dispose of in accordance with local 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. |

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 7 of 9

Section 14: TRANSPORT INFORMATION

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

| | |
|----------|---------------|
| DOT | Not regulated |
| IATA | Not regulated |
| IMDG/IMO | Not regulated |
| ICAO | 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 (AIC) | Canada (DSL) | China (IECSC) | Japan | S. Korea (KECL) | Mexico | New Zealand | Philippines (PICCS) | Taiwan | TSCA: United States |
|-----------------------|-------------|------------------------------------|--|-----------------|--------------|---------------|-------|-----------------|--------|-------------|---------------------|--------|---------------------|
| Aluminum/Zinc Mixture | Proprietary | Contact JM Huber for EC No. Status | Contact JM Huber for REACH Regulatory Status | Y | N | Y | Y | Y | N | Y | N | Y | A |

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

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 8 of 9

Section 16: OTHER INFORMATION

| | |
|-----------------------------------|---|
| Prepared by | Huber Engineered Materials Global Regulatory Affairs email: regulatory.affairs@huber.com |
| Reason for Revision | New product |
| GHS Classification | Not classified |
| Physical Hazard | Not classified |
| Health Hazard | Not classified |
| Environmental Hazard | Not classified |
| Label Elements | |
| Symbols/Pictograms | None |
| Signal Word | None |
| Abbreviations and acronyms | <p>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)</p> |

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information

HUBER

Safety Data Sheet

Kemgard® 631

Issue Date 01/Jan/2024

Print Date 13/Dec/2023

Revision Number 1.2.1

Page 9 of 9

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